MINUTES
of the
Board of Trustees
Michigan Technological University
Houghton, Michigan

Meeting of
April 29, 2016
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### VII. Informational Items  
- A. Analysis of Investments  
- B. University Issued Bond Balances  
- C. Advancement and Alumni Relations Report  
- D. Recent Media Coverage  
- E. Employee Safety Statistics  
- G. Disposal of Surplus Property

### VIII. Other Business

### IX. Public Comments

### X. Informal Closed Session for a Periodic Personnel Evaluation of President Mroz

### XI. Adjournment
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 29, 2016.

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 29th 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, J. Fream, and a quorum was declared present.

The following members of the Board of Trustees were present:

J. A. Fream, Chair  
P. G. Ollila, Vice Chair  
T. L. Baldini  
R. J. Jacquart  
B. L. Johnson  
L. D. Kennedy  
B. R. Ryan  
T. J. Woychowski  
G. D. Mroz, ex officio

The following members were absent:

None

Also present during part or all of the session were: Dale Tahtinen, 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 Advancement and Student Affairs, 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

Chair Fream recommended that the agenda be amended to change item V-L. to include policy revisions to Board of Trustees policies 2.2., 2.4, 11.14. and 12.8.

It was moved by T. Woychowski, supported by W. Johnson, and passed by voice vote without dissent, that the agenda of the formal session of April 29, 2016, as distributed to the Board, be approved as amended.

II. OPENING REMARKS

Chair’s Comments

I would like to welcome everyone to today’s Board of Control meeting and to this Commencement weekend celebration of achievement and success.

This is always a special and exciting time of the year, as we honor our graduates and their families. This spring we will be granting degrees to 993 students, of which 790 are undergraduate students, 174 are master students and 29 are Ph.D. students.

Since the last Board meeting, many of our faculty, staff and students are continuing to do great things, and I wanted to take a few moments to highlight some of the more notable accomplishments.

In keeping with strategic plan Goal 1: A world-class and diverse faculty, staff and student population the Board would like to recognize several faculty members that have made significant contributions to Michigan Tech and their chosen field of study and are being recommended for promotion and/or promotion and tenure later in today’s meeting.

The candidates recommended for promotion from assistant professor without tenure to associate professor with tenure are: Xiaoqing Tang, Biological Sciences, Tarun Dam, Chemistry, Myounghoon Jeon, Cognitive & Learning Sciences, Laura Brown, Computer Science, Ramon Fonkoue and Scott Marratoo, Humanities, Qinghui Chen, Kinesiology and Integrative Physiology, Alexander Labovsky, Mathematical Sciences, Steven Walton, Social Sciences, Feng Zhao, Biomedical Engineering, Timothy Eisele, Chemical Engineering, Qingli Dai, and Raymond Swartz of Civil and Environmental Engineering, Durdu Guney, Timothy Havens and Chee-Wooi Ten of Electrical and Computer Engineering, Soonkwan Hong, School of Business and Economics, and Molly Cavaleri, School of Forest Resources and Environmental Science. Please stand and be recognized.

The candidates recommended for promotion from associate professor with tenure to professor with tenure are: Guiliang Tang, Biological Sciences, Qiuying Sha, Jiguang Sun, and Fabrizio Zanello of Mathematical Sciences, Christopher Plummer, Visual and Performing Arts, Yu Wang, Materials Science and Engineering, Fernando Ponta, Mechanical Engineering-Engineering Mechanics, Hao Qi, School of Business and Economics, Oliver
Gailing School of Forest Resources and Environmental Science, and Abdul Nasser Al araje, School of Technology. Please stand and be recognized.

In addition:

- Peter Winegar, a third year chemistry major, has won a Barry M. Goldwater Scholarship. Peter is the 10th recipient of a Goldwater Scholarship in Tech’s history.
- Four Michigan Technological University students have received Graduate Research Fellowships from the National Science Foundation and a fifth won an honorable mention. Zachary John Morgan, one of the fellowship winners, is a graduate student in materials research. The other fellowship winners are senior undergraduate students Ian Thomas Cummings, computer engineering; Michelle Terese Hoard, chemical engineering; and Mitchell A. Kirby, biomedical engineering. Roger John Guillory, biomedical engineering, received an honorable mention.

With respect to Goal 2: A distinctive and rigorous discovery-based learning experience:

- The Van Pelt and Opie Library has received the H.W. Wilson Award from the American Library Association. The award is given to the “library organization whose application demonstrates greatest merit for a program of staff development designed to further the goals and objectives of the library organization”.
- SmartAsset, a digital financial analysis company, has ranked Michigan Tech second in the state for value of an education by comparing the cost of a college education to graduates’ average starting salaries.
- Michigan Tech’s Concrete Canoe and Steel Bridge teams both took first place in the American Society of Civil Engineers’ 2016 North Central student competition at Michigan State University. Although the concrete canoe races were cancelled due to bad weather, the team placed first in design paper, first in final product and fourth in presentation, giving them an overall score resulting in a first place finish. They will compete in the national competition at the University of Texas-Tyler in June.

Goal 3: World-class Research, Scholarship, Entrepreneurship and Creativity include:

- Joseph Bump, Associate Professor, in the School of Forest Resources and Environmental Science, received $235,000 for an anticipated 5 year project totaling $824,000, from the National Science Foundation to gain an understanding of the predator’s affect at carcass sites.
- Two student teams from Michigan Tech each brought home $10,000 or more in venture funding from the New Venture Competition at Central Michigan University. Superior Filament, led by Cedric Kennedy, Aubrey Woern and Jos Krugh, brought home a $10,000 Best Technology Award, as well as another $1,000 for Best Pitch and the $250 Audience Choice Award. The student-run company is developing
filment for 3-D printers from recycled plastics to support growth in the 3-D printing industry while reducing environmental impact.

We Inspire, led by Arick Davis, won the $10,000 Korson Family Highest Growth Potential Award. We Inspire is developing an online system and community to help students make informed career choices by connecting them with profiles and feedback from practicing professionals.

Before turning it over to President Mroz for his comments, I wanted to take a few moments to recognize one of our own. As Dale Tahtinen will be retiring at the end of the academic year, and as this is his last Board meeting in his role as Secretary of the Board, on behalf of the Board, we want to thank Dale for his 25 years of distinguished service. Dale’s highly toned political acumen has not only served the university well in his role as Vice President for Governmental Relations, but has proven equally effective in guiding the Board throughout his career, including interacting with 3 presidents, 29 different Board members, presiding over 145 formal sessions, not to mention all the committee meetings, and other Board events as well. Dale’s guiding influence, his gift in being able to size up a situation and provide sage advice, and his ability to diffuse almost any situation have been tremendous assets to the Board, and to individual Board members as well including myself. Many of us have not only sought Dale’s advice in our role as Board members, but in our professional lives as well. We thank Dale for his outstanding service and dedication to the Board and to the University, and we wish him all the best in his future endeavors – be that on or off the golf course and throughout his travels. Thank you Dale for everything.

President’s Comments

This is truly a great weekend for celebrations because of graduation and because of your promotions. Thank you for everything you have done for Michigan Tech and continue to do for Michigan Tech. It is really amazing.

As Julie said, it’s also a bittersweet time. I began to reflect on this and I remembered a weekend and a Michigan Tech retreat of about 50 people at the Ford Forestry Center in 1991. It was typical early summer weather in the U.P., not at all like today, it was cold, it was wet, it was miserable. I wasn’t really sure how I ended up at this retreat, except that maybe I was a newly minted full professor, and I can’t recall if there were any revelations or new directions that the group had set for the University after long meetings and much deliberation. However, I do remember it was the first time I met Dr. Dale Tahtinen.

It was the end of the day and a couple of us were chatting in the hall right outside the conference room door at the Center. Dale was new to the University. The details of that conversation, mostly faded except for little snippets – things like worked at the Reagan White House, involved with NAFTA, worked at Cray Computers, worked in the intelligence agencies, just never really boastful, just kind of matter of fact. The snippet that really comes to mind is the one that comes with the overwhelming feeling that one gets when they realize that as they are speaking they are also firmly placing their foot in their mouth – saying “what in the hell are you doing in Alberta, Michigan?” The good natured response was, “I was born here”. Dale, always willing to put people at ease.
As employees our paths cross many times on campus, but also sometimes in the least official but most touching ways. Years ago after my father died and I was talking to my mother after one of her trips up to Houghton, she said this nice man in the airport in Chicago offered to help her get on the plane with her bags, this was when we had the little Brazilian planes that were really hard for seniors to get into, and I said so what was his name. She said I don’t know but he’s the guy that wears those Irish hats all the time.

Dale was always the gentleman. Years later we were supporting a group from the U.P. that worked to get a tree off the Ottawa National Forest to Washington, D.C. for the holidays, and we were at the Capitol for the festivities and the lighting ceremony. Most of the Michigan delegation and their aides and families were there. John Engler was Governor, and they just had triplets, and they had the honor of lighting the Christmas tree. I still have the ornament off that tree and think about it every year. While most of the crowd was still expressing oohs and aahs at the lighted tree and enjoying the Marine band that was playing, Dale was already over the rope line headed toward the dignitaries saying “come on, let’s get to work we have people to see, contacts to make”. Dale was always on point.

It was later that Gail and I and friends ran into Dale in an airport coming back from a vacation, and in the way that is quiet, measured and uniquely Dale, he said “can I talk to you privately for a moment”. We stepped into a small alcove and he said “you know if the Board contacts you, you really need to think seriously about what they might have to say. I’m not at liberty to say much more than that, but it’s important”. Dale was always looking to pave the way.

We measure a lot of things at Michigan Tech. We build a lot of things at Michigan Tech. That’s what we teach people to do and that’s what we do ourselves – that’s how we measure ourselves. If we added it all up there would be a bewildering array of accomplishments that have Dale’s fingerprints in both good times and not so good times – programs, research, buildings, crisis management relationships. As I sat down to put this together I was headed to what I was sure was going to be a very impressive litany of 25 years of Dale’s service and accomplishments for you today. Great stuff, lots of stuff under the radar. Part way into it, I realized that’s not what I’ll remember about working with Dale. I’ll remember these and other stories. My guess is that you have stories of your own as well. We can save the numbers for the news releases that are going to follow in the coming months as he wraps up his tour of duty here. Today, I’ll say thanks Dale for all you have done for Michigan Tech.

III. COMMITTEE REPORTS

Academic Affairs Committee Report

Mr. Terry Woychowski provided the Board with the following report.
Academic Affairs Committee Report

Terry Woychowski
April 29, 2016

Action Items

- Emeritus Rank
  - Dr. Don Beck, Physics
  - Dr. Max Seel, Physics
  - Dr. Marty Jurgensen, School of Forest Resources & Environmental Science
  - Dr. Peter Laks, School of Forest Resources & Environmental Science
  - Dr. Rolf Peterson, School of Forest Resources & Environmental Science
  - Dr. Christa Walck, School of Business & Economics
**Action Items**

- Annual Promotion & Tenure Appointments
  - Appointments, Not Involving Tenure and/or Promotion
  - Appointments, Involving Tenure and/or Promotion
  - Promotions
- Proposal for a Ph.D. in Applied Physics
- Proposal for a M.S. in Cybersecurity
- Policy 7.2. Residency Requirements for Graduation (Senate Proposal 27-16)

**Informational Items**

- Shelving of Certificate Programs
- Creation of Minors
- Context Statement for Tenure Cases

**Seven Strategic Questions for AAC**

1. Are the University’s educational programs consistent with its mission?
2. Are the University’s strategic plan and academic program congruent?
3. Does the University’s overall budget reflect and support the academic priorities?
4. Are faculty personnel policies aligned and supportive of the strategic plan and its goals?
5. Are enrollment policies consistent with and supportive of the academic strategic plan?
6. Is the University on track to achieve the “Quality of Teaching” and “Quality of Learning” goals, and are the targets appropriate to support the achievement of the strategic plan?
7. How must information technology be applied to achieve the strategic plan?
• Michigan Tech’s IT Infrastructure  
  — Josh Olson, Chief Information Officer
• Communicating to Prospective, Current and Future Students and Others using Technology  
  — Ian Repp, Director of University Marketing & Communications
• Academic Integrity in a Digital World  
  — Mike Meyer, Director for the Center for Teaching and Learning

• Research Report  
  — Dr. David Reed, Vice President for Research
• Roundtable with University Senate, USG, and GSG Presidents  
  — Marty Thompson, Sam Casey, Chelsea Nikula & Will Lytle

Questions?
Provost Report

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

Provost’s Report
Jackie Huntoon
April 29, 2016

Tenure, Promotion and Reappointments

- 1 Recommendation for Promotion from Lecturer to Senior Lecturer
- 1 Recommendation for Promotion from Senior Lecturer to Principal Lecturer
- 18 Recommendations for Promotions from Assistant Professor without Tenure to Associate Professor with Tenure
- 10 Recommendations for Promotions from Associate Professor with Tenure to Full Professor with Tenure
Kudos to our Faculty Considered for Tenure and Promotion

From Harvard University:
“Her/His work is of the highest standard and it is clear from her/his publication record that s/he has significantly broadened her/his research interests and been exceptionally prolific in the years that s/he has been on the faculty at Michigan Tech.”

From University of Nottingham:
“Dr. X has an outstanding track record of publications in the very highest quality international journals in her/his field, including over a dozen articles in ... • Her/his external funding track record is outstanding for someone at her/his relatively early career stage”

Kudos to our Faculty Considered for Promotion

From University of Massachusetts:
“S/He demonstrates an outstanding natural ability to discern important questions and develop novel avenues and tools to address them. S/He has succeeded again and again, even in the face of technical problems that would easily derail most other researchers. S/He has been the driving force behind ... major discoveries ... In a very competitive field, s/he has consistently produced outstanding and highly novel findings.”

From Purdue University:
“I suspect that most faculty members would be thrilled to have Dr. X’s current level of accomplishment at the end of their professional lives, as opposed to mid-career... Given the network s/he has established, her/his momentum, and her/his trajectory, it is daunting to think what s/he is likely to accomplish by the end of her/his career.”

Assessment Update

Disciplinary Goals of Choice (GoC):
Assessed in degree programs on a rotating basis.
• All programs assess Disciplinary Knowledge and Technology.

Physical and Natural World:
• Assessed by programs that select it as a GoC.
• Both a GoC and a Gen Ed goal.

University-Wide Student Learning Goals:
Assessed in “STEM” and “HASS” general education courses (annually) and in degree programs (rotating)
• Physical and Natural World is the STEM Gen Ed goal. Others are HASS.
Increasing Efficiency

Goal 1: Disciplinary Knowledge ★★★
Goal 2: Knowledge of the Physical and Natural World ★★★
Goal 3: Global Literacy ★★★
Goal 4: Critical and Creative Thinking ★★★
Goal 5: Communication ★★★
Goal 6: Information Literacy ★★★
Goal 7: Technology ★★★
Goal 8: Social Responsibility and Ethical Reasoning ★★★

Goal 3: Global Literacy
- 3.1 Global Awareness
- 3.2 Perspective Taking
- 3.3 Cultural Diversity
- 3.4 Understanding Global Systems
- 3.5 Applying Knowledge to Contemporary Global Contexts

Programs now asked to report on 2 criteria (not 5): 1 of the 2 can be customized for a specific program
Assessment Plan - due fall 2016
Assessment Results - due fall 2017

Emphasizing Continual Improvement of Degree Programs

Current State:
- Fall 2014: Goal 5 + GoC Close the Loop
- Fall 2015: Goal 6 + GoC Close the Loop
- Fall 2016: Goal 3 Plan + GoC Close the Loop
- Fall 2017: Goal 3 + GoC Close the Loop
- Fall 2018: Goal 4 + GoC Close the Loop
- Fall 2019: Goal 8 + GoC Close the Loop

Future State:
- Fall 2016: Goal 3 Plan Close the Loop Review
- Fall 2017: Goal 3 + GoC Close the Loop Review
- Fall 2018: Goal 4 Plan Close the Loop Review
- Fall 2019: Goal 4 + GoC Close the Loop Review
- Fall 2020: Goal 8 Plan Close the Loop Review
- Fall 2021: Goal 8 + GoC Close the Loop Review

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

Keweenaw Professional Jobs Network

- Talent Identification
- Connections and Opportunities Awareness
- Training and Development
- Outcomes
  - Push local professional jobs to Michigan Tech alumni
  - Welcome Team
  - Keweenaw Professional Jobs website
Research and Sponsored Programs Report

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

Other Faculty Support Initiatives

- Community English
- Keweenaw Job Fair
- Collaboration with Michigan Works!

Thank you
Sponsored Program Summary
3rd Quarter FY16
April 29, 2016

David Reed
Vice President for Research

Outline

• Sponsored Awards, 3rd Quarter FY16
• Research Expenditures, 3rd Quarter FY16
• Intellectual Property/Commercialization, 3rd Quarter FY16
• Corporate Sponsorship, 3rd Quarter FY16
• High Performance Computing

Sponsored Awards, 3rd Qtr FY16

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Research Expenditures, 3rd Quarter FY16

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<th>College/School/Division</th>
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<th>Variance</th>
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<td>Administration*</td>
<td>3,308,653</td>
<td>3,272,540</td>
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<td>College of Engineering</td>
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<td>College of Science &amp; Arts</td>
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<td>10,975,698</td>
<td>741,574</td>
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<td>Pardee Hohensee College</td>
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<td>204,194</td>
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<td>Korean Research Center (KRC)</td>
<td>5,031,408</td>
<td>4,617,231</td>
<td>414,177</td>
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<td>Michigan Tech Research Institute (MTRI)</td>
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<td>6,888,130</td>
<td>(1,362,694)</td>
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<td>School of Business &amp; Economics</td>
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<td>1,327,400</td>
<td>(50,530)</td>
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<td>4,111,500</td>
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<td><strong>10,017,845</strong></td>
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<td><strong>1,929,460</strong></td>
<td><strong>18.5%</strong></td>
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*Includes the Vice Presidents, Provost, CIO, Dean of Finance and Administration and associate deans for U. Provost and President except for no research dollars that expired in FY16.

Intellectual Property, 3rd Quarter FY16

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</tr>
<tr>
<td>Patents Filed or Issued</td>
<td>11</td>
<td>13</td>
<td>-15%</td>
</tr>
<tr>
<td>License Agreements</td>
<td>15</td>
<td>8</td>
<td>+87%</td>
</tr>
<tr>
<td>Gross Royalties</td>
<td>$278,500</td>
<td>$234,394</td>
<td>+19%</td>
</tr>
</tbody>
</table>

Corporate Combined Sponsored Awards Plus Gifts, 3rd Qtr FY16
High Performance Computing

- 300 users
- 16 academic depts.
- 1500+ processors
- 32 TFLOPS
- 95%+ capacity most days

High Performance Computing

- In the last 18 months, investigators running analyses on Superior have a collective $9.6 million in research expenditures.
- 100+ publications [avg. 3 per month]
- 20 advanced degrees [avg. 1 every 2 mos.]

High Performance Computing

- Advanced Power Systems Research Center $1,333k
- Multiscale Technologies Institute $1,330k
- Earth, Planetary, and Space Systems Institute $1,258k
- Great Lakes Research Center $658k
- Ecosystem Science Center $625k
- Institute of Materials Processing $625k
- Life Sciences and Technology Institute $598k
- Institute of Computing and Cybersystems $507k
High Performance Computing

- Discovery of novel methods to detect buried explosive devices
- Design of new materials including improved lightweight composites for aerospace applications
- High resolution models to understand the impact of currents and circulations in the Great Lakes to predict the dispersal paths of contaminants and nutrients, and the proliferation of invasive species

For the First time...getting in front of an invasive.

Numerical Forecasting of EWM Distributions

- Premise:
  - EWM requires protected waters of the Great Lakes
  - EWM is first established at boat launch ramps
  - EWM is distributed by ambient currents to favorable environments

Five Great Lakes Model Grids
Model Resolution

- Lake Michigan & Huron: 1-2 km/grid cell
- Les Cheneaux Islands region: 50-100 m/grid cell

Lake Superior Model Grid

Lake Superior Model Grid Data

Michigan Tech
B. Audit and Finance Committee Report

Mr. Baldini commended and thanked Dale Tahtinen for all that he’s done. “My relationship with Dale goes back to college days. Also, in previous jobs and positions that I have had I had to deal with the University and Dale was our contact. Contrary to popular belief, not all decisions are made on facts and data, a lot of it is done on relationships and reputation. Obviously, the institution has a great reputation, but also Dale had established those relationships with many people in the bureaucracy in Washington, and also with the legislative delegation, which ended up paying off favorably for us. Thank you Dale, and I’m not sure that he will have enough life, however, to improve his golf game.”

Mr. Baldini reported that the Audit and Finance Committee has met twice since the last Board meeting.

The committee reviewed the Financial Position and Outlook for 2016, 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 2017 General Fund Operating Budget. There has been considerable planning and discussions over the last six months in the development of the budget. A 4.8% tuition restraint was proposed by the Governor, the House and the Senate and the Appropriations increase proposals range from 3.2% and 4.3%. 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 Administration provided the Audit & Finance Committee and the full Board of Trustees with information regarding the selection of an external audit firm for the next 5 years. The Committee supports the recommendation to approve Andrews Hooper & Pavlik as the University’s External Auditors for a 5 year engagement.

Other items reviewed by the Audit & Finance Committee included:
- Internal Audit Open Audit Observations
- Capital Projects Update
- Quarterly Report on Continuous Improvement Using Lean Principles

Treasurer’s Report

Ms. Julie Seppala provided the Board with the following report.
Overview

- Condensed Statement of Net Position
- Condensed Statement of Revenues, Expenses & Changes in Net Position
- Current Fund Projected Revenues & Expenses
- Cash Balances Chart
- FY17 General Fund Operating Budget

Balance Sheet
Condensed Statement of Net Position
as of March 31, 2016

<table>
<thead>
<tr>
<th></th>
<th>University</th>
<th>Tech Fund</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assets</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Current Assets</td>
<td>$53,234</td>
<td>$3,587</td>
<td>$56,821</td>
</tr>
<tr>
<td>Deferred Income</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Liabilities</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Current Liabilities</td>
<td>$29,601</td>
<td>$114</td>
<td>$29,715</td>
</tr>
<tr>
<td>Deferred Income</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total Liabilities</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Deferred Income</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Net Position</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>$181,129</td>
<td>$118,393</td>
<td>$300,522</td>
</tr>
</tbody>
</table>
Income Statement  
Condensed Statement of Revenues, Expenses and Changes in Net Position  
As of March 31, 2016  
(in thousands)

<table>
<thead>
<tr>
<th>FY16</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating Revenues</td>
<td></td>
</tr>
<tr>
<td>- Room Tuition and Fees</td>
<td>$120,322</td>
</tr>
<tr>
<td>- Grants and Contracts</td>
<td>$32,189</td>
</tr>
<tr>
<td>- Educational Activities</td>
<td>$4,518</td>
</tr>
<tr>
<td>- Department Activities</td>
<td>$8,115</td>
</tr>
<tr>
<td>- Student Residence Fees</td>
<td>$28,965</td>
</tr>
<tr>
<td><strong>Total Operating Revenues</strong></td>
<td><strong>$190,140</strong></td>
</tr>
<tr>
<td>Operating Expenses</td>
<td></td>
</tr>
<tr>
<td>- Salaries &amp; Wages</td>
<td>$94,255</td>
</tr>
<tr>
<td>- Fringe Benefits</td>
<td>$26,065</td>
</tr>
<tr>
<td>- Student Financial Support</td>
<td>$40,361</td>
</tr>
<tr>
<td>- Supplies, Services &amp; Other</td>
<td>$52,267</td>
</tr>
<tr>
<td><strong>Total Operating Expenses</strong></td>
<td><strong>$223,968</strong></td>
</tr>
<tr>
<td>Non Operating Revenues</td>
<td>$36,214</td>
</tr>
<tr>
<td>Other Revenues</td>
<td>$5,296</td>
</tr>
<tr>
<td><strong>Change in Net Position</strong></td>
<td><strong>$6,697</strong></td>
</tr>
<tr>
<td><strong>Net Position, Beginning</strong></td>
<td>$294,385</td>
</tr>
<tr>
<td><strong>Net Position, End</strong></td>
<td>$300,082</td>
</tr>
</tbody>
</table>

FY2016 Current Funds  
Projected Revenues, Expenses & Change in Net Assets  
(in thousands)

<table>
<thead>
<tr>
<th>Original Projection</th>
<th>3rd Quarter Projection</th>
</tr>
</thead>
<tbody>
<tr>
<td>Revenues</td>
<td>$280,519</td>
</tr>
<tr>
<td>Expenses</td>
<td>($280,106)</td>
</tr>
<tr>
<td>Change in Net Assets</td>
<td>$414</td>
</tr>
</tbody>
</table>

Note: Current Fund includes General, Designated, Auxiliary, Retirement and insurance, and Expendable Restricted Funds.
## PROPOSED STATE APPROPRIATIONS FOR MICHIGAN TECH

<table>
<thead>
<tr>
<th></th>
<th>Governor</th>
<th>House</th>
<th>Senate</th>
</tr>
</thead>
<tbody>
<tr>
<td>2017 Appropriation</td>
<td>4.3%</td>
<td>3.2%</td>
<td>4.3%</td>
</tr>
<tr>
<td>Tuition Restraint</td>
<td>4.8%</td>
<td>4.8%</td>
<td>4.8%</td>
</tr>
<tr>
<td>Total Revenue</td>
<td>$4.966M</td>
<td>$4.440M</td>
<td>$4.966M</td>
</tr>
</tbody>
</table>

---

### General Fund Revenues

**FY17 Budget Planning Parameters**

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>State Appropriations</td>
<td>4.3%</td>
</tr>
<tr>
<td>Enrollment</td>
<td>+110 students</td>
</tr>
<tr>
<td>Tuition &amp; Fees</td>
<td>4.8% overall</td>
</tr>
<tr>
<td>Undergraduate*</td>
<td>2.4%</td>
</tr>
<tr>
<td>- Lower Division</td>
<td>0.9%</td>
</tr>
<tr>
<td>- Upper Division</td>
<td>+5%</td>
</tr>
<tr>
<td>Graduate</td>
<td>+5%</td>
</tr>
<tr>
<td>Investment Income</td>
<td>+$255K</td>
</tr>
<tr>
<td>Gift Income/Advancement</td>
<td>+$3.9M</td>
</tr>
</tbody>
</table>

---

### General Fund Expenses

**FY17 Budget Planning Parameters**

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Salary Pool</td>
<td>2.0% – 3.0%</td>
</tr>
<tr>
<td>Faculty Promotions</td>
<td>$278K</td>
</tr>
<tr>
<td>Graduate Stipend</td>
<td>+5%</td>
</tr>
<tr>
<td>Debt Service</td>
<td>+$745K</td>
</tr>
<tr>
<td>Fringe Benefits</td>
<td>+$1M</td>
</tr>
<tr>
<td>Contingency Reserve</td>
<td>+$800K ($4.8M)</td>
</tr>
<tr>
<td>Scholarships*</td>
<td>+$2.2M</td>
</tr>
<tr>
<td>Undergraduate Graduate</td>
<td>+5%</td>
</tr>
<tr>
<td>Maintenance Budget</td>
<td>+$500K</td>
</tr>
<tr>
<td>Academic/Admin. Initiatives</td>
<td>+$2.4M</td>
</tr>
</tbody>
</table>
Student Affairs and Advancement Report

Dr. Les Cook provided the Board with the following report.

### Fall 2016 Undergraduate Applications

<table>
<thead>
<tr>
<th></th>
<th>2015</th>
<th>2016</th>
<th>Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total applications</td>
<td>5,896</td>
<td>6,140</td>
<td>244/4.1%</td>
</tr>
<tr>
<td>Admits</td>
<td>4,390</td>
<td>4,644</td>
<td>254/5.7%</td>
</tr>
<tr>
<td>Paid deposits</td>
<td>1,428</td>
<td>1,518</td>
<td>90/6.3%</td>
</tr>
</tbody>
</table>
2004-2016 Paid Female Deposits

2004-2016 Minority Paid Deposits

Fall 2016 Graduate Applications

<table>
<thead>
<tr>
<th></th>
<th>2015</th>
<th>2016</th>
<th>Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total applications</td>
<td>4,883</td>
<td>4,894</td>
<td>11</td>
</tr>
<tr>
<td>Admits</td>
<td>1,317</td>
<td>1,238</td>
<td>-79/6.3%</td>
</tr>
</tbody>
</table>
FY 16 Funds Raised by Category
As of 3/31/16

- Major Gifts
- Planned Gifts
- Annual Giving
- Corp Sponsored Research
- Corporations
- Foundations
- Gifts in-Kind

Total Actual: $33.80 million
Total Goal: $32.5 million

Total Funds Raised FY 2009 - 2016
As of 3/31/16

$13.8 million raised in 9 months. Goal has been met!
Campus Campaign

- FY15 final: 318 faculty & staff donors (22.3% participation rate)
- FY16 current: 369 donors (25.4% participation rate)

- Supports our Culture of Philanthropy efforts
  - Faculty & staff giving is a key component in establishing this culture. It demonstrates to students that investing in Tech is a good thing and it sends the message to all that we believe in the work taking place at Michigan Tech.

- What can I give to?
  - You can direct your gift to any favorite area of the University - departments, scholarships, athletics, research programs, the Library — and newer initiatives like the Food Access Network (FAN)

- Can I still give?
  - Campus Campaign continues until June 30 — the end of the fiscal year.

Thank you!
C. Leadership Committee

There was no report from the Leadership Committee at this time.

IV. CONSENT AGENDA

It was moved by R. Jaquart, supported by T. Woychowski, 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 R. Jaquart, supported by T. Woychowski, and passed by voice vote without dissent, that the minutes of the formal session of February 26, 2016, as distributed to the Board, be approved.

IV-B. Gifts

It was moved by R. Jaquart, supported by T. Woychowski, 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, 2015 through March 31, 2016
Compared to Prior Year

<table>
<thead>
<tr>
<th>Source</th>
<th>FY16 YTD Total</th>
<th>FY15 YTD Total</th>
<th>FY15 Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Individuals - Major Gifts (25K and up)</td>
<td>6,020,046</td>
<td>4,976,468</td>
<td>5,467,669</td>
</tr>
<tr>
<td>Realized Planned Gifts (Unanticipated - 25K and up)</td>
<td>264,836</td>
<td>74,435</td>
<td>130,606</td>
</tr>
<tr>
<td>Individuals - non-Major Gifts</td>
<td>1,856,788</td>
<td>1,367,032</td>
<td>1,675,766</td>
</tr>
<tr>
<td>Full Value New Planned Gift Commitments</td>
<td>11,072,218</td>
<td>9,005,087</td>
<td>8,630,067</td>
</tr>
<tr>
<td>Annual Fund</td>
<td>1,252,457</td>
<td>1,217,342</td>
<td>1,491,595</td>
</tr>
<tr>
<td>Corporate Sponsored Research</td>
<td>8,603,237</td>
<td>8,873,572</td>
<td>11,332,428</td>
</tr>
<tr>
<td>Corporations</td>
<td>1,213,988</td>
<td>1,144,076</td>
<td>1,373,181</td>
</tr>
<tr>
<td>Foundations &amp; Other Organizations</td>
<td>2,241,300</td>
<td>5,227,762</td>
<td>5,284,794</td>
</tr>
<tr>
<td>Gifts-in-Kind</td>
<td>770,788</td>
<td>187,342</td>
<td>207,058</td>
</tr>
<tr>
<td><strong>Grand Total</strong></td>
<td><strong>33,796,868</strong></td>
<td><strong>31,077,147</strong></td>
<td><strong>35,823,081</strong></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.

Michigan Technological University
Michigan Tech Fund
Gift Activity Cash Report
July 1, 2015 through March 31, 2016
Compared to Prior Year

<table>
<thead>
<tr>
<th>Gift Type</th>
<th>FY16 YTD Total</th>
<th>FY15 YTD Total</th>
<th>$ Change from Previous Fiscal Year</th>
<th>% Change from Previous Fiscal Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cash (current year)</td>
<td>9,722,382</td>
<td>11,331,444</td>
<td>-1,609,062</td>
<td>-14.2%</td>
</tr>
<tr>
<td>Realized Planned Gifts (current year)</td>
<td>270,239</td>
<td>95,562</td>
<td>174,677</td>
<td>182.8%</td>
</tr>
<tr>
<td><strong>Current Year Subtotal</strong></td>
<td><strong>9,992,621</strong></td>
<td><strong>11,426,966</strong></td>
<td><strong>-1,434,375</strong></td>
<td><strong>-12.6%</strong></td>
</tr>
<tr>
<td>Cash (receipts from prior year pledges)</td>
<td>5,050,748</td>
<td>990,923</td>
<td>4,059,825</td>
<td>409.7%</td>
</tr>
<tr>
<td>Realized Planned Gifts (previously recorded)</td>
<td>202,270</td>
<td>3,202,749</td>
<td>-3,000,480</td>
<td>-90.7%</td>
</tr>
<tr>
<td><strong>Receipts from Previous Year Subtotal</strong></td>
<td><strong>5,253,018</strong></td>
<td><strong>4,193,677</strong></td>
<td><strong>1,069,341</strong></td>
<td><strong>25.3%</strong></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>15,245,640</strong></td>
<td><strong>15,620,647</strong></td>
<td><strong>-375,007</strong></td>
<td><strong>-2.4%</strong></td>
</tr>
</tbody>
</table>
IV-C. Resignations, Retirements & Off Payroll

It was moved by R. Jacquart, supported by T. Woychowski, and passed by voice vote without dissent, that the Board of Trustees accepts the resignations and confirms the off payroll determinations.

V. ACTION/DISCUSSION ITEMS

V-A. Emeritus Rank

It was moved by T. Woychowski, supported by T. Baldini, and passed by voice vote without dissent that the Board of Trustees approves the following emeritus appointments:

1.) Dr. Donald R. Beck, Professor Emeritus, Department of Physics
2.) Dr. Maximilian Seel, Professor Emeritus, Department of Physics
3.) Dr. Martin Jurgensen, Professor Emeritus, School of Forest Resources & Environmental Science
4.) Dr. Peter Laks, Professor Emeritus, School of Forest Resources & Environmental Science
5.) Dr. Rolf Peterson, Professor Emeritus, School of Forest Resources & Environmental Science
6.) Dr. Christa Walck, Professor Emerita, School of Business & Economics
V-B. Appointments, Not Involving Tenure/Promotion

It was moved by T. Woychowski, 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.

Appointments without Tenure for Two Years
Effective August 15, 2016

<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>Department</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ebenezer Tumban</td>
<td>Assistant Professor</td>
<td>Biological Sciences</td>
</tr>
<tr>
<td>Thomas Werner</td>
<td>Assistant Professor</td>
<td>Biological Sciences</td>
</tr>
<tr>
<td>Loredana Valenzano</td>
<td>Assistant Professor</td>
<td>Chemistry</td>
</tr>
<tr>
<td>Xiaohu Xia</td>
<td>Assistant Professor</td>
<td>Chemistry</td>
</tr>
<tr>
<td>Amy Lark</td>
<td>Assistant Professor</td>
<td>Cognitive &amp; Learning Sciences</td>
</tr>
<tr>
<td>Carlos Amador</td>
<td>Assistant Professor</td>
<td>Humanities</td>
</tr>
<tr>
<td>Andrew Fiss</td>
<td>Assistant Professor</td>
<td>Humanities</td>
</tr>
<tr>
<td>Dana Van Kooy</td>
<td>Assistant Professor</td>
<td>Humanities</td>
</tr>
<tr>
<td>Marcelino Viera-Ramos</td>
<td>Assistant Professor</td>
<td>Humanities</td>
</tr>
<tr>
<td>Steven Elmer</td>
<td>Assistant Professor</td>
<td>Kinesiology &amp; Integrative Physiology</td>
</tr>
<tr>
<td>Cecile Piret</td>
<td>Assistant Professor</td>
<td>Mathematical Sciences</td>
</tr>
<tr>
<td>Yeonwoo Rho</td>
<td>Assistant Professor</td>
<td>Mathematical Sciences</td>
</tr>
<tr>
<td>Jae Yong Suh</td>
<td>Assistant Professor</td>
<td>Physics</td>
</tr>
<tr>
<td>Donald LaFreniere</td>
<td>Assistant Professor</td>
<td>Social Sciences</td>
</tr>
<tr>
<td>Jonathan Robins</td>
<td>Assistant Professor</td>
<td>Social Sciences</td>
</tr>
<tr>
<td>Lisa Gordillo</td>
<td>Assistant Professor</td>
<td>Visual &amp; Performing Arts</td>
</tr>
<tr>
<td>Jingfeng Jiang</td>
<td>Assistant Professor</td>
<td>Biomedical Engineering</td>
</tr>
<tr>
<td>Pasí Lautala</td>
<td>Assistant Professor</td>
<td>Civil &amp; Environmental Engineering</td>
</tr>
<tr>
<td>Sumit Paudyal</td>
<td>Assistant Professor</td>
<td>Electrical &amp; Computer Engineering</td>
</tr>
<tr>
<td>Snehamoy Chatterjee</td>
<td>Assistant Professor</td>
<td>Geological &amp; Mining Engrg &amp; Sciences</td>
</tr>
<tr>
<td>Chad Deering</td>
<td>Assistant Professor</td>
<td>Geological &amp; Mining Engrg &amp; Sciences</td>
</tr>
<tr>
<td>Colleen Mouton</td>
<td>Assistant Professor</td>
<td>Geological &amp; Mining Engrg &amp; Sciences</td>
</tr>
<tr>
<td>Andrew Barnard</td>
<td>Assistant Professor</td>
<td>Mechanical Engrg-Engrg Mechanics</td>
</tr>
<tr>
<td>Mahdi Shahbakhti</td>
<td>Assistant Professor</td>
<td>Mechanical Engrg-Engrg Mechanics</td>
</tr>
<tr>
<td>Ye Sun</td>
<td>Assistant Professor</td>
<td>Mechanical Engrg-Engrg Mechanics</td>
</tr>
<tr>
<td>Heather Knewton</td>
<td>Assistant Professor</td>
<td>School of Business &amp; Economics</td>
</tr>
<tr>
<td>Latika Lagalo</td>
<td>Assistant Professor</td>
<td>School of Business &amp; Economics</td>
</tr>
<tr>
<td>Yvette Dickinson</td>
<td>Assistant Professor</td>
<td>School of Forest Res &amp; Environ Science</td>
</tr>
<tr>
<td>Evan Kane</td>
<td>Assistant Professor</td>
<td>School of Forest Res &amp; Environ Science</td>
</tr>
<tr>
<td>Sunil Mehendale</td>
<td>Assistant Professor</td>
<td>School of Technology</td>
</tr>
</tbody>
</table>

Appointments without Tenure for One Year
Effective August 15, 2016

<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>Erika Hersch-Green</td>
<td>Assistant Professor</td>
<td>Biological Sciences</td>
</tr>
<tr>
<td>Wen Zhou</td>
<td>Assistant Professor</td>
<td>Chemical Engineering</td>
</tr>
<tr>
<td>Kazuya Tajiri</td>
<td>Assistant Professor</td>
<td>Mechanical Engrg-Engrg Mechanics</td>
</tr>
<tr>
<td>Linda Wanless</td>
<td>Assistant Professor</td>
<td>School of Technology</td>
</tr>
</tbody>
</table>
V-C. Appointments, Involving Tenure/Promotion

It was moved by W. Johnson, supported by P. Ollila, 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

- Xiaoqing Tang, Biological Sciences
- Tarun Dam, Chemistry
- Myounghoom Jeon, Cognitive and Learning Sciences
- Laura Brown, Computer Science
- Ramon Fonkoue, Humanities
- Scott Marratto, Humanities
- Qinghui Chen, Kinesiology and Integrative Physiology
- Alexander Labovsky, Mathematical Sciences
- Steven Walton, Social Sciences
- Feng Zhao, Biomedical Engineering
- Timothy Eisele, Chemical Engineering
- Qingli Dai, Civil and Environmental Engineering
- Raymond Swartz, Civil and Environmental Engineering
- Durdu Guney, Electrical and Computer Engineering
- Timothy Havens, Electrical and Computer Engineering
- Chee-Wooi Ten, Electrical and Computer Engineering
- Soonkwan Hong, School of Business and Economics
- Molly Cavaleri, School of Forest Resources and Environmental Science

V-D. Promotions

It was moved by T. Baldini, supported by T. Woychowski, 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

- Guiliang Tang, Biology Sciences
- Qiuying Sha, Mathematical Sciences
- Jiguang Sun, Mathematical Sciences
- Fabrizio Zanello, Mathematical Sciences
- Christopher Plummer, Visual and Performing Arts
- Yu Wang, Materials Science and Engineering
- Fernando Ponta, Mechanical Engineering-Engineering Mechanics
- Hao (Howard) Qi, School of Business & Economics
- Oliver Gailing, School of Forest Resources and Environmental Science
- Abdul Nasser Al araje, School of Technology
V-E. Proposal for a Ph.D. in Applied Physics

The Department of Physics proposes a spin-off of its current Ph.D. in Engineering Physics to create a new, broadened program: Ph.D. in Applied Physics. The current Ph.D. in Engineering Physics program engages students to solve engineering-related problems by using the tools and principles of physics. The Ph.D. in Applied Physics will further broaden the scope of this program to help meet the needs of students seeking training in broader interdisciplinary areas of engineering and science, including nanotechnology, photonics, plasmonics, and biophysics. This degree will also provide a logical path for students who complete the M.S. in Applied Physics to continue toward a Ph.D., should they decide to further their studies and pursue research. The department is simultaneously proposing that the Ph.D. in Engineering Physics program be shelved, contingent upon this proposal being approved.

Mr. Woychowski commented that the university should look into ways in which to expand this curriculum into a minor, and to see how it could be developed from the engineering and automotive perspective.

It was moved by R. Jacquart, supported by W. Johnson, and passed by voice vote that the Board of Trustees approves the Ph.D. in Applied Physics degree program.

V-F. Proposal for a Master of Science in Cybersecurity

This is a strategic proposal led by the Computer Science Department for a new Master of Science degree program in the emerging areas of Cybersecurity. The involved ACIA (Alliance of Computing, Information and Automation) faculty are gathered from the Computer Science Department, Electrical and Computer Engineering Department, and the School of Technology. The proposed new degree program will utilize the alliance expertise as well as most of the existing courses on cybersecurity in meeting the emerging job market. The proposed M.S. program is expected to attract domestic and international students to pursue cross-disciplinary graduate study of theories with the knowledge of science, engineering, and technology that would help advance the workforce. The curriculum design spans from individual computer units to networking as well as industrial control protection. The program is unique because of the combinations of training environment instilled by the three units in all aspects from theories, engineering, to current practice of security industries.

It was moved by T. Baldini, supported by W. Johnson, and passed by voice vote that the Board of Trustees approves the Ph.D. in Applied Physics degree program.

V-G. Policy 7.2. Residence Requirements for Graduation

It was moved by T. Baldini, supported by W. Johnson, and passed by voice vote without dissent, that the Board of Trustees amends policy 7.2. Residence Requirements for Graduation as presented herein.

The amended policy shall read as follows:
7.2. Requirements for Graduation

The requirements for a student to receive a baccalaureate degree from Michigan Technological University are the following:

a. Thirty (30) of the last 36 semester credit hours of academic work to be applied to the degree must be completed at Michigan Technological University.

b. Thirty (30) semester credit hours of advanced level courses (3000 or higher) to be applied to the degree must be completed at Michigan Tech.

The requirements for a student to receive a graduate degree from Michigan Technological University are the following:

a. A minimum of two-thirds of the required non-research course-work credits required for the degree must be taken through Michigan Tech. Ph.D. students must take at least 20 credits beyond the masters or 50 credits beyond the bachelors through Michigan Tech.

b. Research credits used to satisfy degree requirements must be taken through Michigan Tech and must be supervised by a member of Michigan Tech graduate faculty.

c. Some graduate programs may have other specific requirements.

Courses which meet the "at Michigan Tech" requirement are defined as courses that were taken as part of a university-approved study abroad program or as courses that are listed in the course catalog and taught by Michigan Tech faculty either on campus, at field locations, or through distance learning.

The President or the Provost and Vice President for Academic Affairs, is authorized to grant exceptions to this requirement in extraordinary individual cases.

Degree programs with special requirements may apply for exemptions. The President or the Provost, and Vice President for Academic Affairs may grant such programmatic exemptions upon recommendation of the Senate.

This policy supersedes Board of Trustees policy 7.2. Requirements for Graduation dated July 15, 2010.

V-H. FY17 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 T. Baldini, supported by W. Johnson, and passed by voice vote without dissent, that the Board of Trustees approves the FY17 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

FY17 General Fund Budget

<table>
<thead>
<tr>
<th>Operating Revenues</th>
<th>FY17</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuition and Fees</td>
<td>$133,726,557</td>
</tr>
<tr>
<td>Federal Grants and Contracts</td>
<td>150,000</td>
</tr>
<tr>
<td>State &amp; Local Government Grants &amp; Contracts</td>
<td></td>
</tr>
<tr>
<td>Nongovernmental Grants &amp; Contracts</td>
<td></td>
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<tr>
<td>Indirect Cost Recoveries</td>
<td>12,426,000</td>
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<tr>
<td>Educational Activities/Misc. Revenues</td>
<td>118,020</td>
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<tr>
<td>Student Resident Fees</td>
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<tr>
<td>Sales and Services of Dept Activities</td>
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<tr>
<td></td>
<td>$146,420,577</td>
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</table>

<table>
<thead>
<tr>
<th>Operating Expenses</th>
<th>FY17</th>
</tr>
</thead>
<tbody>
<tr>
<td>Staff S&amp;W</td>
<td>$(36,657,417)</td>
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<tr>
<td>Faculty S&amp;W</td>
<td>$(47,681,967)</td>
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<tr>
<td>Grad Student S&amp;W</td>
<td>$(4,421,310)</td>
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<td>Undergrad Student S&amp;W</td>
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<td>Fringe Benefits</td>
<td>$(32,447,269)</td>
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<tr>
<td>Supplies &amp; Services</td>
<td>$(17,568,191)</td>
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<td>Scholarships</td>
<td>$(38,323,201)</td>
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<tr>
<td>Utilities</td>
<td>$(4,072,792)</td>
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<tr>
<td>Contingency/Carryforward Reserve</td>
<td>$(4,800,000)</td>
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<tr>
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<td>$(186,900,333)</td>
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<table>
<thead>
<tr>
<th>Transfers</th>
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<tr>
<td>Mandatory/Non-Mandatory</td>
<td>$(13,157,444)</td>
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<table>
<thead>
<tr>
<th>Nonoperating Revenues (Expenses)</th>
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</thead>
<tbody>
<tr>
<td>State Appropriations</td>
<td>$48,854,700</td>
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<tr>
<td>Gift Income</td>
<td>4,527,500</td>
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<tr>
<td>Investment Income</td>
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<td>Interest Expense</td>
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<td>$53,637,200</td>
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<table>
<thead>
<tr>
<th>Net Income (Loss)</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>$(0)</td>
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</table>
Michigan Technological University  
FY2017 Tuition Rates

<table>
<thead>
<tr>
<th>Resident Undergraduate</th>
<th>Non-Resident Undergraduate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lower Division</td>
<td></td>
</tr>
<tr>
<td>Tuition Rate</td>
<td>Plateau</td>
</tr>
<tr>
<td>Per Credit Hour &lt;12 and &gt;18</td>
<td>Tuition Rate</td>
</tr>
<tr>
<td>$542.00</td>
<td>$7,167.00</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Resident Undergraduate</th>
<th>Non-Resident Undergraduate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Upper Division</td>
<td></td>
</tr>
<tr>
<td>Tuition Rate</td>
<td>Plateau</td>
</tr>
<tr>
<td>Per Credit Hour &lt;12 and &gt;18</td>
<td>Tuition Rate</td>
</tr>
<tr>
<td>Engineering, Computer Science, Computer Network &amp; Systems Admin., Surveying Engineering Majors</td>
<td>$718.00</td>
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<tr>
<td>Forest Resources, Environmental Science, Biological Sciences, Chemistry, Kinesiology &amp; Integrative Physiology, Cognitive &amp; Learning Sciences, Physics, Construction Management, Electrical Engineering Technology, Mechanical Engineering Technology Majors</td>
<td>$618.00</td>
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<tr>
<td>Business, Economics, Humanities, Mathematical Sciences, Social Sciences, Visual &amp; Performing Arts Majors</td>
<td>$694.00</td>
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</tbody>
</table>

NOTE: Per Credit Hour Rate Will Apply Undergraduate Students Enrolled Summer Semester

<table>
<thead>
<tr>
<th>Resident &amp; Non-Resident Graduate Students</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuition Rate Per Credit Hour &amp; Fees</td>
</tr>
<tr>
<td>Standard Per Credit Hour Rate Non-Engineering/Computer Science</td>
</tr>
<tr>
<td>Standard Per Credit Hour Rate Engineering/Computer Science</td>
</tr>
<tr>
<td>Applied Science Education and Peace Corps, OSUMVISTA, and National Graduate Fellowship Students Non-Engineering/Computer Science</td>
</tr>
<tr>
<td>Applied Science Education and Peace Corps, OSUMVISTA, and National Graduate Fellowship Students Engineering/Computer Science</td>
</tr>
<tr>
<td>Graduate Students who are in Research Mode Non-Engineering/Computer Science</td>
</tr>
<tr>
<td>Graduate Students who are in Research Mode Engineering/Computer Science</td>
</tr>
</tbody>
</table>

V-I. Approval of External Auditor

It was moved by T. Baldini, supported by W. Johnson, and passed by voice vote without dissent, that the Board of Trustees authorizes the Treasurer to engage the certified public accounting firm Andres Hoopers & Pavlik to conduct the following audits for the fiscal year ending June 30, 2016:

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-J. Election of Chair and Vice Chair

It was moved by W. Johnson, supported by P. Ollila, and passed by voice vote without dissent, that the Board of Trustees elects Terry Woychowski as Chair and Linda Kennedy as Vice Chair for the 2016-2017 fiscal year.

V-K. Appointment of Secretary

As Dr. Dale Tahtinen is retiring on June 30, 2016, it is being recommended that the Board appoint a Secretary effective July 1, 2016.

It was moved by T. Baldini, supported by R. Jacquart, and passed by voice vote without dissent, that the Board of Trustees appoints Roberta Dessellier as Secretary effective July 1, 2016.

Chair Fream thanked Janet Hayden for all the work that she has done for the Board. Her new role will be announced shortly by President Mroz. We appreciate everything that Janet has done for us, and I know that Dale appreciates everything that she has done for him through the years. Janet is an integral part of how the Board has functioned for these many years, and we will miss Janet as a participant from the Board, but we know that her new role will be a huge contribution to the University. Thank you Janet for all your efforts.

V-L. Revisions to Board of Trustees Policies

With the retirement of Dale Tahtinen as Vice President of Government Relations and the change in the Board Secretary position there are changes that need to be made to several Board policies.

It was moved by T. Baldini, supported by T. Woychowski, and passed by voice vote without dissent, that the Board of Trustees amends policies 2.2. Duties and Powers of the President, 2.4. Duties and Powers of the Internal Auditor, 11.14. Risk Management, and 12.8. Security Clearance – Department of Defense - Executive Committee as presented, effective July 1, 2016.

The amended policy shall read as follows:
2.2. Duties and Powers of the President

The President of the University shall be the chief executive officer of the University with the powers inherent in that office including the defining of the duties and powers of subordinate officers except as the duties of such subordinate officers may be otherwise set forth in these bylaws or Board of Control Policy. Any grant of authority by the Board of Control to any University employee except to the Internal Auditor, Board of Control Secretary or Board of Control Treasurer may, by and at the discretion of the President, but with notice to the Board of Control be transferred to any other University employee subject to applicable collective bargaining agreements and Board of Control Tenure Policy.

The President is to serve as a means of communication between the faculty, staff, students and the Board of Control, and is to recommend from time to time such measures as the interests of the University demand.

The President is charged with and granted the authority of general management, supervision and oversight of the properties, assets, students, staff, faculty, and other officers of the institution. The President shall designate an individual to fulfill the duties of the office at those times the President is unavailable. In the absence of a Presidential designation or in the event of unavailability of all designees the Provost and Vice President for Academic Affairs shall fulfill those duties.

The President, or the President's designated representative, is authorized to add individuals to the salaried and hourly payrolls, to establish their duties, to grant leaves of absence, to determine and negotiate salary, wages, bonuses, overload compensation, benefits (including, but not limited to, health insurance, life insurance, long-term disability insurance, retirement programs and retirement benefits) and other conditions of employment with duly authorized officers and/or agents of certified collective bargaining units and with non-represented employees, and to discontinue, suspend or terminate employment of any employee subject to the following conditions:

1. Sufficient funds must be available.

2. Rates of pay must be in accordance with general wage and salary classification policies of the institution.

3. Second term appointment of employees with tenurable rank must have approval of the Board.

4. Changes in duties, discontinuance of employment or decrease in pay may be accomplished only in accord with applicable rules, policies and agreements, including the academic tenure policy where applicable.

5. Reports of retirement, resignation, and off-payroll actions taken hereunder shall be submitted for the approval of the Board at each regular meeting.
The President shall semi-annually report to the Board on the status of all positions reporting
directly to the President and all in the one echelon immediately below those reporting
directly to the President.

The President or the President's designated representative is authorized to assess reasonable
fines and penalties for failure to follow published rules, regulations and ordinances of the
University unless a fine or penalty is set by the Board of Control or applicable law.

The President shall also have those further powers granted by Board of Control Policy.

This policy supersedes Board of Trustees policy 2.2. Duties and Powers of the President
dated February 24, 2011.

2.4. Duties and Powers of the Internal Auditor

The Internal Auditor shall:

1. Conduct audits of any or all accounts of the institution in all departments and locations,
   including agency accounts, for the purpose of confirming the accuracy of accounts, the
   proper authorization of expenditures, the adequacy of business procedures, and all other
   matters related to the propriety of the institution's fiscal policies and operations. In the
   exercise of the duties, the Internal Auditor shall have free and unquestioned access to all
   records and other information concerned with financial affairs and with the custody,
   control, and use of supplies, materials, and other property belonging to the University or
   used under its direction.

2. Recommend changes or improvements in the University's business systems, methods,
   and practices, for the purpose of improved efficiency.

The position of Internal Auditor derives its authority from the Board of Control. The Internal
Auditor reports directly to the Board of Control and reports daily to the President. The
Internal Auditor's work shall be under the general direction and supervision of the President,
except that the Auditor shall have the authority to choose the areas to be examined and the
order and timing of audits.

A copy of each individual audit report issued by the Internal Auditor will be submitted to the
Chair of the Board of Control. Copies of the audit reports will be furnished to other members
of the Board, including the President of the University, the Board Secretary, and the
Treasurer. Periodic audit recommendation status reports will also be prepared by the Internal
Auditor and addressed to the Chair of the Board of Control. Copies of the status reports will
be furnished to other members of the Board, including the President of the University, the
Board Secretary, and the Treasurer.

If at any time the Internal Auditor finds any evidence of defalcations or of serious misuse of
University assets, a written report of such findings shall immediately be sent to the above
officials.
The Board of Control will meet with the Internal Auditor at such times as the Board may determine, but at least once a year, to discuss Internal Audit operations.

This policy supersedes Board of Trustees policy 2.4. Duties and Powers of the Internal Auditor dated July 15, 2010.


The University is to be protected against fortuitous loss or losses which, in the aggregate, during any financial period, would significantly affect University property, personnel, the budget or the ability of the University to continue to fulfill its educational role in the State of Michigan.

The University will apply to risks of fortuitous loss the risk management process which includes a systematic and continuous identification of loss exposures, the analysis of these exposures in terms of frequency and severity probabilities, the application of sound risk control procedures and the financing of risk consistent with University financial resources.


12.8. Security Clearance – Department of Defense – Executive Committee

No member of the Board of Control or executive officer of the University shall have access to the classified security information of the United States government, Department of Defense, until such member or officer has received a security clearance at the level necessary for access to such information.

No employee of the University shall have access to classified information of the United States Government, Department of Defense, until such person has received security clearance at the level necessary for access to such information. The President shall make all recommendations for security clearance for employees.

There is hereby established an Executive Committee of the Board to be known as the Classified Contracts and Information Executive Committee.

The Committee shall be comprised of the following persons:
   The University President, ex-officio
   The University Vice President for Research, ex-officio
   Two members of the Board of Control to be designated by the Board Chair

All members of the above committee shall obtain and maintain approved national security clearance at the highest level determined necessary by the President in accordance with applicable Department of Defense requirements so as to be appropriately informed on all matters regarding classified projects or research conducted by the university. Such committee members with the appropriate national security clearance will be responsible for informing the Board of any necessary university operating information in an unclassified manner. No
Committee member lacking the appropriate clearance shall have access to classified security information.

The above Executive Committee shall be responsible for and shall have full authority to exercise management control and supervision over, and the negotiation, execution and administration of classified contracts including responsibility over all matters involving the security of classified matter in the possession of the University.

This policy should be administered pursuant to the provisions of the Industrial Security Manual for Safeguarding Classified Information, Department of Defense.


VI. REPORTS

A. University Senate Report

University Senate Report

Presented to the Board of Trustees
April 29, 2016

Marty Thompson, President
University Senate

University Senate
Accomplishments
2015-16

1. Advancing the academic goals of Michigan Tech.
2. Express the concerns of our constituents
3. Responding to new trends in assessment and graduate education
Curricular Policy Committee

1. Proposals: 19
2. Shelved programs: 8  
   a. Most were following a trend to end certain certifications in favor of (existing/new) minors.
3. New programs: 9  
   a. PhD in Applied Physics  
   b. MS in Cybersecurity  
   c. 7 Minors, including a Minor in leadership

General Education and Assessment Committee

1. Proposals: 1  
   a. Liaisons from each department or school  
2. Reports: 2  
   a. One each from past and present Assoc. Provost  
3. Assessment  
   a. Developing proper infrastructures to enhance communication between departments, schools, graduate school, etc.

Academic and Instructional Policy Committee

1. Proposals: 5  
   a. Scheduling exams during career day  
   b. Exam policies (2)  
   c. Academic calendar  
   d. Early term survey*  
      i. Additional questions focused on the classroom climate with the goal of responsiveness  
2. Report: 1  
   a. Inclusion*
Research Policy Committee

1. Proposals: 0
2. Reports: 1
   a. Library: Journal subscriptions & trends in pricing

Finance & Institutional Planning Committee

1. Proposals: 2 (co-developed with FBC)
   a. Proposal 2-16: tuition waivers for employees taking Tech courses for professional development.
2. Reports: 2
   a. Salary comparison studies for both faculty and professional staff

Fringe Benefits Committee

1. Proposals: 4
2. Reports: 2
   a. Retirement plan analysis
   b. Dependent tuition plan (TRIP) analysis
3. Goals:
   a. Communicate concerns of employees
   b. Ensure an educated and informed dialogue exists
   c. Offer insights and recommendations to the president of the university that is independent of the BLG
Administrative Policy Committee

1. Proposals: 6
2. President’s evaluation
   a. Survey designed by students and faculty.
   b. Significant improvement in validity.

Additional discussions

1. Recycling
2. Cyber-security
3. IT Update

Looking ahead to 2016-17

1. General Education & Assessment: Developing proper infrastructures to enhance communication and advance core academic issues
   a. Assessment
   b. Graduate education & assessment
   c. General education
2. Research Policy: Addressing the growing concern about journal pricing
3. Fringe Benefits: ongoing dialogue, recommendations, expand benefits to compete for top talent
B. Undergraduate Student Government Report

Board of Trustees Update
Sam Casey, President
April 29, 2016

New Leadership
Joseph Heitsley
Vice President
Josh Davis
Treasurer
Braeton Ardell
Secretary

Year Objectives

• Increase representation of student
• Increase transparency
• Increase accountability
First Steps

- Fill all USG positions
  - 7 open after elections
- Select effective Committee Chairs
- Set a vision
  - Create actionable objectives

Increase Representation of Students

- Approval survey – Baseline
  - Lead by Braeton Ardell, Secretary
- Permanent Google form for student feedback
- “Meet your Org”
  - Lead by Joseph Heltsley, Vice President
- College Representatives to work more closely with college

Increasing Transparency

- Budgetary Transparency
  - Lead by Josh Davis, Treasurer
- Documentation of important decisions
  - Lead by PR Chair and Braeton Ardell, Treasurer
C. Graduate Student Government Report

Graduate Student Government of Michigan Tech

Presented by Chelsea Nikula and William Lytle

April 29, 2016

Board of Trustees
Michigan Technological University
Academic Events in Review

- Poster Session during Alumni Reunion
- Job Searches for International Students
- Health Insurance Open Forum
- Finding a Job in Industry
- Applying for a Job in Academia
- 5 Lunch ‘n’ Learns
- Resume and CV Workshop
- Graduate Research Colloquium
- Three Minute Thesis Competition

2016 GRC

- Service Award Winners
- Outstanding Teaching Winners
- Outstanding Scholarship Winners
- Group Photo!

2016 3MT

- Masters Division
- PhD Division

1st Place: Ekramatul Ehtes, ME-EM
Runner Up: Abhiraj Kantamneni, CS
People’s Choice: Abhiraj Kantamneni, CS

1st Place (tied): Zichen Qian, Biomed Eng.
Rupaka Basu, Bio
People’s Choice: Rupaka Basu, Bio
Social Events in Review

- Orientation Picnic
- Quincy Mine Tour
- Waterfall Tour
- Fall Color Tour
- Halloween Party
- Gingerbread House Building
- Downhill and Cross Country Skiing
- International Dance Party
- PhD Movie Night
- End of the Year Picnic

Travel Grant Program

141 awards were given totaling $33,750

GSG Sponsored Events

$11,290 allocated to 5 student orgs for cultural events
Provided 35 tickets to Husky FAN
$3,000 allocated to Film Board for speaker upgrade
GSG Accomplishments

- New GSG Website
- Improved Communication with Student Body
- Strengthened our Community
- Promoted Diversity & Inclusion
- Started identifying Current Needs of Graduate Students
- Housing and Transportation Survey (in progress)
- Made Connections with Key University Units
- New representative allocation scheme

Thank you!

GSG 2016-2017 E-board

- Jongseon (Justin) Zhang
  Mechanical Engineering, PhD
  Vice President

- James Rauschendorfer
  Forest Genetics, M.S.
  Secretary

- Ulises R. Gracida
  Chemical Engineering, PhD
  Treasurer

- Tyler Capek
  Physics, PhD
  Academic Chair

- Muraleekrishnan Menon
  Mechanical Engineering, PhD
  Public Relations Chair

- Giovanna Azzii
  Electrical Engineering, PhD
  Social Chair
**Vision & Goals**

**Vision** - A GSG that has the ability to identify and prioritize the needs of our constituents as well as capacity to negotiate for their actualization.

---

**Goals and Action Objectives**

<table>
<thead>
<tr>
<th>Environmental</th>
<th>Social</th>
<th>Economic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Goals</td>
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<td></td>
</tr>
<tr>
<td>• Zero Waste</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• 100% Renewable Energy</td>
<td></td>
<td></td>
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<tr>
<td>• NTU leader in Research and Implementation</td>
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<tr>
<td>Areas of Interest</td>
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<td>• Future Facilities Development/Projects</td>
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<td>Action Objectives For 2016-2017</td>
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<td>• Evaluate Contract with Waste Management</td>
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<td>• Support Pilot Projects for Composting/Digesting</td>
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<td>• Certifications for Wind/Solar Institute</td>
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**Goals and Action Objectives**

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<td>Quality of life for our diverse faculty, staff, students and community</td>
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<td>• Transportation Planning</td>
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VII. INFORMATIONAL ITEMS
A. Analysis of Investments
B. University Issued Bond Balances
C. Research and Sponsored Programs Report
D. Advancement Report
E. Recent Media Coverage
F. Employee Safety Statistics

VIII. OTHER BUSINESS

There was no other business at this time.

IX. PUBLIC COMMENTS

There were no public comments at this time.

X. INFORMAL CLOSED SESSION FOR A PERIODIC PERSONNEL EVALUATION OF PRESIDENT MROZ

It was moved by T. Baldini, supported by P. Ollila, and passed by voice vote without dissent, that the Board of Trustees proceed into an informal closed session for a periodic personnel evaluation of President Mroz. (A closed session for such a purpose is provided for in Section 8 (a) of P.A. 267 of 1976). (A roll call vote is required).
Roll Call Vote:

Jacquart – Yes    Woychowski – Yes
Ollila – Yes      Ryan – Yes
Johnson – Yes     Fream - Yes
Kennedy - Yes     Baldini - Yes

The motion passed.

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

XI. ADJOURNMENT

It was moved by T. Woychowski, supported by B. Ryan, and passed by voice vote without dissent, that the meeting be adjourned.

_______________________________________
Secretary of the Board of Trustees

_______________________________________
Chair, Board of Trustees