MINUTES

of the

Board of Control

Michigan Technological University

Houghton, Michigan

Meeting of

December 19, 2014
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MINUTES OF THE FORMAL SESSION OF THE BOARD OF CONTROL 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 December 19, 2014.

The Board of Control 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 19th day of December 2014, 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 Control were present:

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

The following members were absent:

    S. J. Hicks

Also present during part or all of the session were: Dale R. Tahtinen, Secretary of the Board and Vice President for Governmental Relations; Julie Seppala, Treasurer; Max Seel, 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

It was moved by T. Baldini, supported by L. Ashford, and passed by voice vote without dissent, that the agenda of the formal session of December 19, 2014, as distributed to the Board, be approved.

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.

Here are a few highlights of some of the awards and special activities that have taken place since our last meeting with respect to our strategic plan goals and vision.

With respect to the strategic plan goal of attracting and retaining world-class people:

- Dr. Bill Predebon, chair of the Department of Mechanical Engineering-Engineering Mechanics has been elected vice president for education of the American Society of Mechanical Engineers.
- Professor Vladimir Tonchev has been named the inaugural Igor Kliakhandler Fellow in the Department of Mathematical Sciences.
- The American Physical Society, recognized Michigan Tech for awarding the highest percentages of PhDs in physics to women between 2010 and 2012. Michigan Tech placed 12th in the nation with 42 percent of physics PhDs earned by women.

As our strategic plan articulates several goals with respect to being recognized for our ability to inspire students and advance knowledge:

- The Society of Women Engineers honored Michigan Tech alumnae Britta Jost and Kaitlyn Bunker at its annual conference WE14. Britta received the SWE Distinguished New Engineer award, and Kaitlyn was recognized as 2014 Outstanding Collegiate Member. The Michigan Tech Section of SWE received the international 2014 Outstanding Collegiate Section award.
- The fall Career Fair was record setting in terms of company attendance with 341 companies participating. Many of the companies in attendance were new to our Career Fair. 61 companies (almost 18%) of the companies had not been to campus since 2010 or had never been to campus before.

Contributing to the goal of world-class research:

- Professors Gregory Odegard and Jeff Naber, and Research Engineer Jeremy Worm of Mechanical Engineering-Engineering Mechanics and Associate Professor Paul Sanders of Materials Science & Engineering, received $2,107,965, from the Southwestern Energy Company for a project entitled, Development of Conformable CNG Tanks for Automotive Development.
Before concluding, on behalf of the Board I would like to take this opportunity to thank our outgoing Board Members Steve Hicks and Lenora Ashford for their outstanding service to the Michigan Tech and this Board. Steve is unable to be with us today, although he was here yesterday for our committee meetings.

I would like to thank and recognize Steve for his leadership as Chair of the Audit and Finance Committee and as Board Chair. And Lenora thank you for your leadership as Chair of the Academic Affairs Committee, and your many efforts over the years as a strong promoter and advocate of Michigan Tech. Both of your contributions to Michigan Tech and higher education in general have been of the highest order and you have our sincere appreciation for your dedication and tireless efforts on behalf of Michigan Tech. All the best in your future endeavors. Steve, and to you, Lenora, you will be missed.

**President’s Comments**

I want to add my thanks to Steve and Lenora for their service to Michigan Tech. As we all know, if the U.S. economy had a very bad cold during their time on the Board, the state of Michigan had pneumonia. Michigan lost more than half the jobs lost in the United States during the recession - a staggering 1 in 6 jobs was lost.

It would have been easy for Michigan Tech to lose the way as well, but with steady Board leadership, we all were able to do just the opposite - sharpening our focus on following our strategic plan. Here are just some of the things that Steve and Lenora can be proud of during their stewardship:

- We worked to attract good students – Incoming composite ACT scores rose over two full points from 25.2 to 27.4.
- The 6 year graduation rate increased from 60 to 66 percent.
- The first to second year retention rate rose from 80 to 85%.
- During their time we completed a $215 million capital campaign which included increasing named faculty positions from 7 to over 25 to attract and retain great faculty members. Funded the expansion of the The Jackson Center for teaching and learning, the Wahtera Student Success Center, the Information Learning Commons, the Nucor Industrial Control and Automation Lab, and the Digital Media Zone, and the establishment of the Pavlis Honors College. This is just a handful of the projects aimed at supporting student learning and faculty across disciplines, leading to increased enrollment by over 500 students.
- Increased enrollment set records for graduate enrollments, female student enrollments.
• Record enrollment of both domestic underrepresented students and international students combined to raise the percentage of diverse students on campus from 15% to 22% under their stewardship.

• Research highlights include a doubling of research expenditures, the establishment of the Michigan Tech Research Center in Ann Arbor, the Great Lakes Research Center on campus, new facilities at the Keweenaw Research Center, and an extension of the SmartZone in time and space that you’ll hear more about today. Again, just a few of the programs that Lenora, Steve and the Board supported.

Steve’s insight on management issues, and finance, and Lenora’s unwavering passion for academic programs during times of challenge will be missed because there is much left to do to stay on track with our plan. All of us have had the privilege of being their understudies for the past 8 years and have learned much from them, and besides their expertise is just a phone call away.

Thank you and have a great holiday season!

III. COMMITTEE REPORTS

Academic Affairs Committee Report

Mr. Woychowski presented the follow report to the Board.

![Academic Affairs Committee Report](image-url)
Action Items

- Emeritus Rank
  - Dr. Robert Kolkka
  - Dr. Sandra Boschett-Sandoval
  - Dr. Ciro Sandoval
  - Dr. Mark Plichta
Action Items (Continued)

- Master of Science in Applied Physics
- Degree Title Change
  - B.S. in Geology - Earth Science Education to B.S. in Geology - Earth and Space Science and Integrated Science
- Revisions to University Senate Constitution
- BOC Policy 14.3. Copyright Policy Regarding Scholarly, Academic and Artistic Works

Informational Items

- Concentration in Biomedical Applications within the Bachelor of Science in Electrical Engineering
- Concentration in Environmental Applications within the Bachelor of Science in Electrical Engineering

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. How does the University's approach to achieve the "Quality of Teaching" and "Quality of Learning" goals, and are the budgetary approaches to support the achievement of the strategic plan?
7. How must information technology be applied to achieve the strategic plan?
Provost Report

Provost Max Seel provided the Board with the following report.

"Quality of Teaching" and "Quality of Learning" - are the targets appropriate to support the achievement of the strategic plan?

Board of Control Meeting
December 19, 2014
Input: Efficacy of STEM Outreach programs

Time@Tech: Brief updates on
Pavlis Honors College
Jackson Center for Teaching and Learning

Output: Latest Placement Data, some National Context

Input: Efficacy of STEM Outreach programs

FIRST Robotics
Cass Tech

http://www.usfirst.org/aboutus/impact

FIRST Longitudinal Study (updated: 4/11/14):
FIRST and Brandeis University have launched a multi-year longitudinal study of three of FIRST’s major programs: FIRST LEGO League, FIRST Tech Challenge and FIRST Robotics Competition. The goal of the study is to provide data on the long-term impacts of FIRST programs on key outcomes, including student interest in science and technology, college-going, STEM majors, STEM careers, and practical life and workplace skills (communications, teamwork, problem-solving, etc.). The study is also designed to help answer questions about what elements of the FIRST program experience are particularly important.

Data collection is currently underway.
Efficacy of Pre-College Outreach

**FEEDBACK**

**SUMMER PROGRAMS**

**SYP Highlights**
- 86.5% say SYP increased confidence in college ability
- 91.2% would recommend the program to others
- 92.5% rated hands-on experience as good or excellent

**WEI Highlights**
- 90.9% felt more likely to have a future in engineering
- 94.4% would recommend program to others
- 88.3% rated lab/hand-on experience as good or excellent

**ESP Highlights**
- 92.5% felt more likely to have a future in engineering
- 96.9% would recommend program to others
- 95% rated hands-on experience as good or excellent

**MINING THE DATA**

**TOTAL SYP 1st YEAR STUDENTS**

- 161
- 20% increase over 2013
- 71
- Female
- 27.7
- Average ACT
- 93%
- MAJOR IN STEM
- 13.4%
- Of 2014 Class

"WEI confirmed Michigan Tech was the only place for me."

Update on Pavlis Honors College

**T-Shaped Student**

**Pavlis Honors College**

**Intellectual Breadth**
**Interdisciplinary Experience**
**University Learning Guide**

**Academic Advising & Coop Program**
Update on Jackson Center for Teaching and Learning

William G. Jackson Blended Learning Grant Solicitation

- A generous gift from William G. Jackson once again gives the William G. Jackson Center for Teaching and Learning the ability to solicit grant proposals for course/program reform or expansion projects using blended and online learning.

- This year’s solicitation places special emphasis on mentoring of instructors new to blended learning, interdisciplinary collaboration, shared content, matching support, testing, and assessment. Grants will again be awarded at $1,000, $5,000, and $10,000 levels with a total of $50,000 to be awarded.
Examples of this year’s submission:

"Starting from Scratch" - Chemical Engineering laboratory exercises for online courses;
"Flipping KIP": A Blended Learning Approach for Kinesiology Laboratories;
The Integration of Engineering and Sculpture in Sustainable Building Design;
Bringing Life to Life Sciences;
A Blended Introductory Computer Science Course with Online, Canvas-based, Pair-Programming Labs;
Writing Programs Multimedia Recording Studio;

Testing Center in Jackson CTL

Accommodated Exams:
Sept: 79
Oct: 436
Nov: 190 (None during week of Thanksgiving.)
Total: 705

Sponsored Exams (GRE, GMAT, FE and MITC teacher cert.)
Sept: 13
Oct: 42
Nov: 36
Total: 85

Rekhi 215 (Computerized exams)
Sept: 225 + Math and Eng fund placement tests
Oct: 772
Nov: 374
Total: 1371

Output: 2013-2014 Placement rate

- Undergrads: 95.9% (Last Year 91.5%)
- Graduate Students: 87.7% (Last Year 98.1%)
Cumulative: 94.4% (LY 92.3%)
Cumulative Response Rate: 71.7% (LY 78%)

A historical look at UG placement rates for contest:
03: 04: 94%
04: 05: 94%
05: 06: 95.5%
06: 07: 96.5%
07: 08: 96.6%
08: 09: 85.9%
09: 10: 86.7%
10: 11: 94.8%
11: 12: 94.5%
12: 13: 91.5%
13: 14: 95.9%
Output: The Most In-Demand (And Aging) Engineering Jobs


a few big-picture data trends:

The U.S. has approximately 1.6 million engineering jobs that pay $42 per hour in median wages. Civil engineers account for the most jobs of any engineering field (274,000 in 2014), followed closely by mechanical engineers (264,000) and industrial engineers (229,000). Those three engineering jobs, plus electrical engineers and electronics engineers, make up two-thirds of the American engineering workforce.

Job growth from 2010 to 2014 has been in the double digits in four occupations: petroleum engineers (30%), mining and geological engineers (12%), biomedical engineers (10%), and industrial engineers (10%). But every engineering occupation has added jobs, the most coming among mechanical engineers (21,500 new jobs since 2010). As a whole, engineering jobs have grown 7%.


Michigan Tech Seniors Fall 2014 (ACIA:296)

Mechanical (21,707), Civil (12,464), Electrical (10,562), CS (8,184 inside Eng; 3,457 outside Eng), Chemical (7,717), Biomedical (4,709), Industrial/Manufacturing/Systems (4,272)
Research and Sponsored Programs Report

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

Sponsored Program Summary
1st Qtr. FY15 Activities
December 19, 2014

Dave Reed
Vice President for Research

Outline

• Sponsored Awards, 1st Qtr FY15
• Research Expenditures, 1st Qtr FY15
• Intellectual Property/Commercialization, 1st Qtr FY15
• Corporate Sponsorship, 1st Qtr FY15
• SmartZone Update [Marilyn Clark]
### Sponsored Awards, 1st Qtr FY15

<table>
<thead>
<tr>
<th>Sponsor</th>
<th>Proposal Submitted</th>
<th>Award Received</th>
<th>Award Requested</th>
<th>% of Award Requested</th>
<th>Total Awards</th>
</tr>
</thead>
<tbody>
<tr>
<td>National Science Foundation</td>
<td>38</td>
<td>28</td>
<td>12</td>
<td>92%</td>
<td>$49,720,094</td>
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<tr>
<td>USDA Office of Human Resources</td>
<td>50</td>
<td>35</td>
<td>17</td>
<td>91%</td>
<td>$22,499,328</td>
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<td>U.S. Department of Agriculture</td>
<td>39</td>
<td>12</td>
<td>19</td>
<td>69%</td>
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<td>U.S. Department of Defense</td>
<td>9</td>
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<td>U.S. Department of Energy</td>
<td>2</td>
<td>4</td>
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<td>U.S. Department of Transportation</td>
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<td>Other Federal Agencies</td>
<td>1</td>
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<td>Non-Federal Sources</td>
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<td>100%</td>
<td>$1,644,544</td>
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<tr>
<td>Grand Total</td>
<td>227</td>
<td>208</td>
<td>209</td>
<td>92%</td>
<td>$92,004,670</td>
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### Research Expenditures, 1st Qtr FY15

<table>
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<tr>
<th>College/School/Division</th>
<th>FY2015</th>
<th>FY2016</th>
<th>Variance</th>
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<td>Administration</td>
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<td>College of Engineering</td>
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<td>College of Science &amp; Letters</td>
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<td>0.00%</td>
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<tr>
<td>College of Lettering &amp; History</td>
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<td>0.00%</td>
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<tr>
<td>College of Commerce &amp; Letters</td>
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<td>Graduate College</td>
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<td>Neuroscience Campus</td>
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<td>Health Sciences Research Center</td>
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<td>Medical School</td>
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<tr>
<td>School of Business &amp; Economics</td>
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<td>0.00%</td>
<td>0.0%</td>
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<tr>
<td>School of Forestry &amp; Environmental Science</td>
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<td>5,224,322</td>
<td>0.00%</td>
<td>0.0%</td>
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<tr>
<td>School of Technology</td>
<td>5,224,322</td>
<td>5,224,322</td>
<td>0.00%</td>
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<tr>
<td>Total</td>
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<td>5,224,322</td>
<td>0.00%</td>
<td>0.0%</td>
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Ms. Marilyn Clark, MTEC SmartZone CEO, provided the Board with the following update.
MTEC SmartZone 2013-14 Successes

Created 100 jobs
Three grants supported programs to create jobs:
1. Commercialization Grant $750,000 over three years
2. First Customer Grant $875,000 over two years
3. Ecosystem Grant $700,000 over three years

Invested $100,000 in the professional assessment of technologies in the community and Michigan Technological University

Maximized 3 CEOs on grow technologies of two Michigan Tech professors and one PhD graduate

MTEC Smart Zone Creating a Satellite in Marquette

Innovation Shore - Mission

- To build collaborative relationships with industry leaders, capital networks and universities that accelerate technology clusters and entrepreneurship — thus growing product and process innovations that generate jobs and community prosperity and competitiveness.
- Marquette to provide MTEC SmartZone and Michigan Tech start-up companies with mentors and funding
- Marquette start-ups can access researchers, technologies and talent at Michigan Tech
- The development of the U.P. Angel Network — keeping up with other communities
- Extending MTEC SmartZone (Houghton) funding 15 years — 2032
- Develop Regional Clusters — companies in similar industries that synergize business opportunities

Innovation Shore

Clusters: Life Sciences, IT, Tech, Social Media, Energy, Green Energy

How: Innovation Projects, Knowledge Products, Services

• Increased R&D investments
• More industry leaders
• Higher rates of commercialization of intellectual property
• Improved competitiveness
• Increased regional prosperity

ENERGIZING HIGH-TECH BUSINESS GROWTH
B. Audit and Finance Committee Report

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

The Committee reviewed the fiscal year 2015 first quarter general fund and current fund projections. The projections at this time are positive for both the general fund and the current fund. Julie Seppala will present a high level review of the first quarter financial results after this report.

The Committee discussed the fiscal year 2016 budget planning parameters which included the enrollment projections and graduate and undergraduate tuition structures.

The draft financial strategy policies covering liquidity and debt were reviewed. These are important tools that will enhance our long term planning to advance the strategic plan.

The following action items were reviewed, and the Committee is recommending Board support:

- 2015-2016 Room and Board and Apartment Rental Rates
- Michigan Economic Development (MEDC) SmartZone Agreement
- Michigan Coastal Management Grant Application

Other items reviewed by the Committee included:

- Internal Audit Open Audit Observations
- Capital Projects Update
- NCAA Audit Engagement Letter
- MPSERS Update and GASB 68
- Upcoming Acquisition of a Transmission Electron Microscope
- Report on Continuous Improvement using Lean Principles
- Historic Metrics and 5 Year Targets

Mr. Baldini expressed his thanks to Steve Hicks, former Chair of the Audit & Finance Committee, for his leadership and to Lenora Ashford for her passion for the students.

Treasurer’s Report

Ms. Julie Seppala provided the Board with the following report.
Financial Report
Board of Control Meeting
Friday, December 19, 2014

Balance Sheet
Condensed Statement of Net Position
as of September 30, 2014
(on thousands)

<table>
<thead>
<tr>
<th></th>
<th>University</th>
<th>Tech Fund</th>
<th>Total</th>
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<tbody>
<tr>
<td>ASSETS</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Current Assets</td>
<td>37,773</td>
<td>3,961</td>
<td>41,734</td>
</tr>
<tr>
<td>Noncurrent Assets</td>
<td>244,368</td>
<td>248,368</td>
<td>492,736</td>
</tr>
<tr>
<td>Capital Assets, net</td>
<td>37,435</td>
<td>121,595</td>
<td>158,030</td>
</tr>
<tr>
<td>TOTAL ASSETS</td>
<td>319,596</td>
<td>126,826</td>
<td>446,422</td>
</tr>
<tr>
<td>LIABILITIES</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Current Liabilities</td>
<td>20,645</td>
<td>495</td>
<td>21,140</td>
</tr>
<tr>
<td>Noncurrent Liabilities</td>
<td>81,152</td>
<td>5,116</td>
<td>86,268</td>
</tr>
<tr>
<td>TOTAL LIABILITIES</td>
<td>101,797</td>
<td>5,611</td>
<td>107,408</td>
</tr>
<tr>
<td>NET POSITION</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Investments in capital assets, net of related debt</td>
<td>167,732</td>
<td></td>
<td>167,732</td>
</tr>
<tr>
<td>Other net position, restricted and unrestricted</td>
<td>50,987</td>
<td>21,725</td>
<td>72,712</td>
</tr>
<tr>
<td>TOTAL NET POSITION</td>
<td>217,719</td>
<td>121,250</td>
<td>338,969</td>
</tr>
<tr>
<td>TOTAL LIABILITIES AND NET POSITION</td>
<td>319,596</td>
<td>126,826</td>
<td>446,422</td>
</tr>
</tbody>
</table>

Balance Sheet
Condensed Statement of Net Position Including GASB 68 Pension Liability
as of September 30, 2014
(on thousands)

<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>37,773</td>
<td>4,961</td>
<td>42,734</td>
</tr>
<tr>
<td>Noncurrent Assets</td>
<td>244,368</td>
<td>248,368</td>
<td>492,736</td>
</tr>
<tr>
<td>Capital Assets, net</td>
<td>37,435</td>
<td>121,595</td>
<td>158,030</td>
</tr>
<tr>
<td>TOTAL ASSETS</td>
<td>319,596</td>
<td>126,826</td>
<td>446,422</td>
</tr>
<tr>
<td>LIABILITIES</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Current Liabilities</td>
<td>20,645</td>
<td>485</td>
<td>21,130</td>
</tr>
<tr>
<td>Noncurrent Liabilities</td>
<td>128,922</td>
<td>5,115</td>
<td>134,037</td>
</tr>
<tr>
<td>TOTAL LIABILITIES</td>
<td>149,567</td>
<td>5,600</td>
<td>155,167</td>
</tr>
<tr>
<td>NET POSITION</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Investments in capital assets, net of related debt</td>
<td>167,732</td>
<td></td>
<td>167,732</td>
</tr>
<tr>
<td>Other net position, restricted and unrestricted</td>
<td>230,802</td>
<td>21,725</td>
<td>252,527</td>
</tr>
<tr>
<td>TOTAL NET POSITION</td>
<td>210,534</td>
<td>121,250</td>
<td>331,784</td>
</tr>
<tr>
<td>TOTAL LIABILITIES AND NET POSITION</td>
<td>319,596</td>
<td>126,826</td>
<td>446,422</td>
</tr>
</tbody>
</table>
### Current Fund FY15

<table>
<thead>
<tr>
<th></th>
<th>Original Projection</th>
<th>1st Qtr Projection</th>
</tr>
</thead>
<tbody>
<tr>
<td>Revenue</td>
<td>$370,076</td>
<td>$386,145</td>
</tr>
<tr>
<td>Expense</td>
<td>$(272,413)</td>
<td>$(261,187)</td>
</tr>
<tr>
<td>Net Income</td>
<td>$97,663</td>
<td>$(15,958)</td>
</tr>
<tr>
<td>Current Fund Balance</td>
<td>$17,724</td>
<td>$18,079</td>
</tr>
</tbody>
</table>

*Note: Current fund includes General, Designated Auxiliary Retirement and Insurance, and Expendable Restricted Funds.*

### Current Fund Balances

<table>
<thead>
<tr>
<th></th>
<th>Balance 06/30/13</th>
<th>Balance 06/30/14</th>
<th>1st Qtr Projection 06/30/13</th>
</tr>
</thead>
<tbody>
<tr>
<td>TOTAL CURRENT FUND BALANCE</td>
<td>$13,195</td>
<td>$17,121</td>
<td>$16,079</td>
</tr>
<tr>
<td>LEGALLY RESTRICTED FUNDS</td>
<td>$(4,867)</td>
<td>$(3,852)</td>
<td>$(3,872)</td>
</tr>
<tr>
<td>UNRESTRICTED CURRENT FUND BALANCE</td>
<td>$8,368</td>
<td>$13,269</td>
<td>$12,406</td>
</tr>
</tbody>
</table>

### Current Fund Balances Including GASB 66 Pension Liability

<table>
<thead>
<tr>
<th></th>
<th>Balance 06/30/13</th>
<th>Balance 06/30/14</th>
<th>1st Qtr Projection 06/30/13</th>
</tr>
</thead>
<tbody>
<tr>
<td>TOTAL CURRENT FUND BALANCE</td>
<td>$13,196</td>
<td>$17,121</td>
<td>$(3,891)</td>
</tr>
<tr>
<td>LEGALLY RESTRICTED FUNDS</td>
<td>$(4,867)</td>
<td>$(3,852)</td>
<td>$(3,872)</td>
</tr>
<tr>
<td>UNRESTRICTED CURRENT FUND BALANCE</td>
<td>$8,368</td>
<td>$13,269</td>
<td>$(13,364)</td>
</tr>
</tbody>
</table>
Advancement Update

Dr. Les Cook provided the Board with the following report.
C. Leadership Committee

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

IV. CONSENT AGENDA

It was moved by P. Ollila, supported by R. Jacquart, and passed by voice vote without dissent, that the Board of Control approve and adopt the items contained in the Consent Agenda.
IV-A. Approval of Minutes

It was moved by P. Ollila, supported by R. Jacquart, and passed by voice vote without dissent, that the minutes of the formal session of October 3, 2014, as distributed to the Board, be approved.

IV-B. Gifts

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

Michigan Technological University
Michigan Tech Fund
Gift Activity Cash Report
July 1, 2014 through October 31, 2014
Compared to Prior Year

<table>
<thead>
<tr>
<th>Gift Type</th>
<th>FY14 YTD</th>
<th>FY13 YTD</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>2,498,557</td>
<td>2,090,924</td>
<td>377,634</td>
<td>18.1%</td>
</tr>
<tr>
<td>Realized Planned Gifts (current year)</td>
<td>67,596</td>
<td>136,717</td>
<td>-68,122</td>
<td>-50.2%</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong> 2,566,153</td>
<td><strong>Total</strong> 2,226,641</td>
<td><strong>309,512</strong></td>
<td><strong>13.5%</strong></td>
</tr>
<tr>
<td>Current Year Subtotal</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cash (receipts from prior year pledges)</td>
<td>247,070</td>
<td>546,975</td>
<td>-299,905</td>
<td>-54.9%</td>
</tr>
<tr>
<td>Realized Planned Gifts (previously recorded)</td>
<td>2,454,187</td>
<td>2,125,505</td>
<td>328,682</td>
<td>15.5%</td>
</tr>
<tr>
<td></td>
<td><strong>Receipts from Previous Year Subtotal</strong></td>
<td><strong>Total</strong> 2,701,257</td>
<td><strong>Total</strong> 2,671,580</td>
<td><strong>29,677</strong></td>
</tr>
</tbody>
</table>
IV-C. Resignations, Retirements & Off Payroll

It was moved by P. Ollila, supported by R. Jacquet, and passed by voice vote without dissent, that the Board of Control accepts the resignations and confirms the off payroll determinations.
### BOARD OF CONTROL OFF-PAYROLL REPORT

*(August 31, 2014 – November 22, 2014)*

#### Faculty

<table>
<thead>
<tr>
<th>Resignation</th>
<th>Department</th>
<th>Title</th>
<th>Hire Date</th>
<th>Term Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Larson, Kalen</td>
<td>Visual &amp; Performing Arts</td>
<td>Associate Professor</td>
<td>08/10/2008</td>
<td>06/13/2014</td>
</tr>
<tr>
<td>Miskoglu, Ayse</td>
<td>Humanities</td>
<td>Instructor</td>
<td>08/20/2012</td>
<td>09/20/2014</td>
</tr>
<tr>
<td>Rivard, James</td>
<td>Sch Forest Res &amp; Envr. Sci</td>
<td>Lecturer</td>
<td>12/18/2005</td>
<td>06/02/2014</td>
</tr>
</tbody>
</table>

#### Retired

<table>
<thead>
<tr>
<th>Name</th>
<th>Department</th>
<th>Title</th>
<th>Hire Date</th>
<th>Term Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Goel, Ashok</td>
<td>Electrical &amp; Computer Engrg</td>
<td>Associate Professor</td>
<td>09/15/1989</td>
<td>11/18/2014</td>
</tr>
<tr>
<td>Yarouch, William</td>
<td>Cognitive &amp; Learning Sci</td>
<td>Associate Professor</td>
<td>08/29/1983</td>
<td>09/03/2014</td>
</tr>
</tbody>
</table>

#### Staff

<table>
<thead>
<tr>
<th>Exempt</th>
<th>Department</th>
<th>Title</th>
<th>Hire Date</th>
<th>Term Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carroll, David</td>
<td>Information Technology</td>
<td>Sr Application Prog Analyst</td>
<td>08/24/2009</td>
<td>06/05/2014</td>
</tr>
<tr>
<td>Clawson, Michael</td>
<td>VP for Administration</td>
<td>Purchasing Manager</td>
<td>08/17/1981</td>
<td>06/05/2014</td>
</tr>
<tr>
<td>Goodrich, Marola</td>
<td>Univ Marketing &amp; Com.</td>
<td>Senior Content Specialist</td>
<td>07/11/1992</td>
<td>09/30/2014</td>
</tr>
<tr>
<td>Isaacson, Kristi</td>
<td>Grad School</td>
<td>Asst Dir Grad Enrollment Svc</td>
<td>01/14/2008</td>
<td>06/19/2014</td>
</tr>
<tr>
<td>Pakosari, Kenneth</td>
<td>Information Technology</td>
<td>System Administrator</td>
<td>05/07/1995</td>
<td>11/08/2014</td>
</tr>
<tr>
<td>Sabby, Darrin</td>
<td>Information Technology</td>
<td>Help Desk Manager</td>
<td>07/06/2011</td>
<td>06/10/2014</td>
</tr>
<tr>
<td>Schultz, James</td>
<td>Facilities Management</td>
<td>Facilities Engineer</td>
<td>04/05/1995</td>
<td>10/24/2014</td>
</tr>
<tr>
<td>Turnquist, James</td>
<td>Career Services</td>
<td>Dir Student Career Devel.</td>
<td>08/25/1988</td>
<td>11/03/2014</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Exempt Part-Time</th>
<th>Department</th>
<th>Title</th>
<th>Hire Date</th>
<th>Term Date</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Non-exempt</th>
<th>Department</th>
<th>Title</th>
<th>Hire Date</th>
<th>Term Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carroll, Colleen</td>
<td>Van Pelt &amp; Opia Library</td>
<td>Office Assistant S</td>
<td>02/29/2011</td>
<td>06/08/2014</td>
</tr>
<tr>
<td>Daroy, Donald</td>
<td>Facilities Management</td>
<td>Building Mechanic II</td>
<td>09/18/1978</td>
<td>10/11/2014</td>
</tr>
<tr>
<td>Fountaine, Gerald</td>
<td>Facilities Management</td>
<td>Custodian</td>
<td>04/21/2004</td>
<td>09/12/2014</td>
</tr>
<tr>
<td>Markham, Harold</td>
<td>Facilities Management</td>
<td>Custodian</td>
<td>03/25/2000</td>
<td>10/12/2014</td>
</tr>
<tr>
<td>Sarau, Valerie</td>
<td>Dining Services</td>
<td>Food Service Helper</td>
<td>04/03/2007</td>
<td>11/08/2014</td>
</tr>
<tr>
<td>Theiler, Paula</td>
<td>Registrar’s</td>
<td>Office Assistant S</td>
<td>02/23/2009</td>
<td>11/07/2014</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Non-exempt - PT</th>
<th>Department</th>
<th>Title</th>
<th>Hire Date</th>
<th>Term Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clements, Heather</td>
<td>Dining Services</td>
<td>Food Service Helper</td>
<td>03/22/2012</td>
<td>10/25/2014</td>
</tr>
<tr>
<td>DesRosier, Terry</td>
<td>Dining Services</td>
<td>Food Service Helper</td>
<td>02/11/2014</td>
<td>11/21/2014</td>
</tr>
<tr>
<td>Pike, Trevor</td>
<td>Memorial Union</td>
<td>Food Service Helper</td>
<td>03/22/2014</td>
<td>09/14/2014</td>
</tr>
</tbody>
</table>

### IV-D. 2015 Meeting Dates

It was moved by P. Ollila, supported by R. Jacquart, and passed by voice vote without dissent, that the Board of Control approves the meeting dates are presented.

- **Thursday, February 19, 2015**
- **Friday, May 1, 2015** (Commencement – Saturday, May 2)
- **Thursday, August 6, 2015** (Alumni Reunion)
- **Thursday, October 15, 2015**
- **Friday, December 18, 2015** (Commencement – Saturday, December 19)

The meetings will begin at 9:00 a.m.
IV-E. Degree Title Change

It was moved by P. Ollila, supported by R. Jacquart, and passed by voice vote without dissent, that the Board of Control approves the degree title B.S. in Geology – Earth Science Education be changed to B.S. in Geology – Earth and Space Science and Integrated Science.

V. ACTION/DISCUSSION ITEMS

V-A. Employee Recognition

It was moved by T. Woychowski, supported by L. Ashford, and passed by voice vote without dissent, that the Board of Control adopts the Resolution of Appreciation for the following individuals:

1.) Donald Darcy (36 years of service)

![Certificate Image]
V-B. Emeritus Rank

It was moved by R. Jacquet, supported by P. Ollila, and passed by voice vote without dissent, that the Board of Control approves the following emeritus appointments:

1.) Dr. Robert Kolkka, Professor Emeritus, Department of Mathematical Sciences
2.) Dr. Sandra Boschetto-Sandoval, Professor Emerita, Department of Humanities
3.) Dr. Ciro Sandoval, Professor Emeritus, Department of Humanities
4.) Dr. Mark R. Plichta, Professor Emeritus, Department of Materials Science and Engineering

V-C. Approval for a Master of Science in Applied Physics Degree

The Department of Physics is proposing a new Master of Science (M.S.) degree program in Applied Physics. The proposed program will meet the needs of scientists and engineers seeking training in contemporary areas that make connections between the traditional branches of physics and engineering. The new degree will distinguish itself from the existing M.S. degree in Physics by offering significant additional flexibility to faculty and students in tailoring the required coursework to prepare students for the interdisciplinary research. The proposed program will use the resources already available in the Department of Physics and elsewhere within the University. The M.S. in Applied Physics is expected to attract domestic and international students to pursue graduate study in interdisciplinary areas of science, including nanotechnology, photonics, atmospheric science and biophysics.

Much exciting research is now being done in new interdisciplinary branches of physics, including physics at nanoscale, photonics, and optoelectronics etc. Most of the faculty members of the department have established research programs in these “frontier” areas of applied physics. The current M.S. in Physics program at Michigan Tech does not allow M.S.-seeking graduate students adequate flexibility to meet the demands of such frontier areas. The proposed M.S. in Applied Physics program will provide the necessary framework to allow faculty to tailor core courses for their students that are more closely aligned to their specialized research areas. The new program will also attract physics undergraduate students from more diverse backgrounds to pursue graduate-level study in applied physics at Michigan Tech, and will provide better job opportunities for our graduates in areas of contemporary technological interest.

This new Master program supports Goal 2.1 of the university strategic plan (Integration of research, instruction, and innovation that achieves the University Student Learning Goals). Specifically, “strengthen existing programs and develop new offerings in emerging interdisciplinary areas.”

It was moved by T. Woychowski, supported by P. Ollila, and passed by voice vote without dissent, that the Board of Control approves the Master of Science in Applied Physics degree program.
V-D. Approval for Revisions to University Senate Constitution

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

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

A. Role of Assistant Deans – Makes the policy in the Constitution consistent with the policy in the Bylaws: Assistant deans are Senate constituents, but may not serve as senators or alternates.

B. Commencement of Term of Office – The term of office for new senators and alternates is to begin immediately after their election in the spring rather than approximately 130-140 days later at the start of the fall semester.


D. Officers-Elect to Begin Duties Immediately - The term of office for new senators and alternates is to begin immediately after their election in the spring rather than approximately 130-140 days later at the start of the fall semester.

The proposed changes to the University Senate Constitution were approved by the Senate in a meeting on September 24, 2014 and then by referendum of its members which concluded on October 22, 2014, as is prescribed by Article X in the Senate Constitution. 20.3% (or 207 of the 1021 constituents) participated in the referendum with 83% (172) accepting the amendments, 10% (20) rejecting the amendments, and 7% (15) abstained from voting.

It was moved by L. Ashford, supported by R. Jacquart, and passed by voice vote without dissent, that the Board of Control approves the Revisions to the University Senate Constitution, which was ratified by an 83% affirmative vote of the total cast by its constituencies on October 22, 2014. By its approval of this amendment by the Senate of its Constitution the Board of Control relinquishes none of its constitutional or statutory authority nor does it adopt the amendment or the Constitution as Board of Control or University Policy.

The amended Constitution shall read as follows:

Constitution and Bylaws of the University Senate of Michigan Technological University

Article I — Name

The name of this organization shall be The University Senate of Michigan Technological University.
Article II — Constituents

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

B. Individuals:

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

2. Faculty Constituents:

   a. Academic faculty shall be constituents of the University Senate, unless otherwise excluded. The academic faculty are individuals holding a rank of instructor, lecturer, assistant professor, associate professor or professor for a minimum of nine months full-time.

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

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

3. Professional Staff Constituents

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

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

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

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

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

   b. Research Units and Professional Staff:

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

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

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

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

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

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

**Article III — Functions**

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

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

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

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

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

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

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

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

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

   5. If the University President vetoes a proposal passed by the Senate, that veto shall be presented in writing to the Senate President. The Senate President shall report the veto to the Senate at its next meeting. The Senate may appeal the veto to the Board of Control upon a two-thirds majority vote of eligible senators. Written notice of the appeal shall be transmitted immediately to the University President who shall submit a written copy of the veto to the Board of Control. The Senate President shall also submit a written copy of the Senate’s appeal to the Board of Control.

   6. If, within three months (not including the time from the end of the Spring term of one academic year to the start of the Fall term of the next academic year) of transmittal to the University President, a proposal passed by the Senate is neither vetoed nor approved by the University President, the proposal will be deemed approved by the University President, and will be submitted by the Senate President to the Board of Control for its approval. Procedures for temporarily extending the three-month period for particular proposals shall be contained in the Bylaws.

F. List of Matters of Responsibility and Authority
1. Matters of Academic Policy and Procedures

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

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

      ii. Requirements for certificates and academic degrees.

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

      iv. Teaching quality and the evaluation of teaching.

      v. All matters pertaining to the academic calendar.

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

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

      viii. Academic freedom: rights and responsibilities.

      ix. Regulations concerning the awarding of honorary degrees.

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

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

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

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

      i. Academic organization, including the establishment or elimination of schools, colleges, or departments, and the reorganization of the academic structure.

2. Matters of Research Policy and Procedures

   a. The Senate has the responsibility and authority to review and establish policy and procedures in these areas:
i. All issues and performance other than the allocation and distribution of resources.

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

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

3. Matters of Policy and Procedures Concerning Professional Staff

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

      i. All issues of concern only to professional staff.

4. Other Matters of Policy and Procedure

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

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

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

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

      i. Fringe benefits.

      ii. Institutional priorities.

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

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

      v. Admission standards and procedures.

      vi. Student financial aid.

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

viii. Administrative procedures and organizational structure.

ix. The evaluation of administrators.

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

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

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

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

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

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

5. All Senators or their Alternates may vote in Senate committee deliberations.

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

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

Article IV — Membership

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

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

2. One senator and one alternate elected by and from each of the professional staff and research unit representation units.

3. Alternate members shall serve with vote in the absence of the regular representative.

4. Four at-large academic and research faculty senators shall be elected by the entire faculty constituency.
5. Two at-large professional staff senators shall be elected by the professional staff and research unit constituencies.

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

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

B. For election to the Senate a two-year residence shall be required except for ROTC personnel and representation units having fewer than three members meeting this requirement.

C. Election and Terms of Office

1. The term of office of elected senators and alternates shall be three years except as set forth in Paragraph 3 below. After serving for six consecutive years as a senator and/or alternate, an individual shall not be eligible for re-election for a period of one year. Representation units may ask the Senate Executive Committee to waive these term limits.

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

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

Article V — Officers

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

Article VI — Committees

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

B. Committee chairs shall be senators or alternates.
Article VII — Procedure

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

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

Article VII — Petitions And Ballot Initiatives

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

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

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

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

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

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

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

ARTICLE IX — Meetings

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

Amendments to this Constitution may be proposed at any meeting. If passed both at this meeting and at any subsequent meeting within six calendar months by a two-thirds majority, the proposed amendment shall be submitted to the Senate Constituency. Ratification shall require a two-thirds majority. The amendment shall then become effective upon approval by the Board of Control.

Article XI — Bylaws

A. Approval of and amendments to the Bylaws shall require a two-thirds majority vote of the full Senate.

B. A proposed change to the Bylaws must be distributed to senators at least 10 calendar days before the meeting at which it is to be considered for approval.

V-E. 2015-2016 Room and Board and Apartment Rental Rates

Michigan Tech Housing & Residential Life, Facilities Management, and Dining Services are committed to providing exceptional facilities and an aesthetically pleasing on-campus community that values academic success and friendship. Our on-campus community includes high quality and diversified dining services and housing alternatives that offer opportunities for learning and personal growth in a safe and comfortable environment.

The recommended Schedule of Housing and Meal Rates for 2015-2016 is included herein.

Housing & Residential Life, Facilities Management and Dining Services are recommending approval of these rates, with the confidence our staff will continue to provide the type of innovative management and student development that has permitted Michigan Tech to attract, retain, and support a world-class student population.

It was moved by T. Baldini, supported by L, Kennedy, and passed by voice vote without dissent, that the Board approves the recommended residence hall housing and meal, as well as apartment rental rates for 2015-2016.
### Douglass Houghton Hall, McNair Hall, Wadsworth Hall

**Occupancy Dates:** August 22, 2015 - December 19, 2015 and January 9, 2016 - April 30, 2016

<table>
<thead>
<tr>
<th>Residence Hall Room &amp; Meal Rate</th>
<th>2014-2015 Room &amp; Gold Meal Plan</th>
<th>Proposed Increase</th>
<th>2015-2016 Room &amp; Gold Meal Plan</th>
<th>Percent Change</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Regular Occupancy</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Douglass Houghton Hall, McNair Hall <em>Standard Occupancy (Double, Triple Quad)</em></td>
<td>$9,496.00</td>
<td>$341.00</td>
<td>$9,837.00</td>
<td>3.56%</td>
</tr>
<tr>
<td>Single Occupancy</td>
<td>$11,129.00</td>
<td>$341.00</td>
<td>$11,470.00</td>
<td>3.06%</td>
</tr>
<tr>
<td>Converted Occupancy (Standard plus one)</td>
<td>$8,432.00</td>
<td>$0.00</td>
<td>$8,432.00</td>
<td>0.00%</td>
</tr>
<tr>
<td>Deluxe Double - East McNair only</td>
<td>$9,827.00</td>
<td>$341.00</td>
<td>$10,168.00</td>
<td>3.47%</td>
</tr>
<tr>
<td><strong>Wadsworth Hall</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Standard Occupancy</td>
<td>$9,672.00</td>
<td>$341.00</td>
<td>$10,013.00</td>
<td>3.53%</td>
</tr>
<tr>
<td>Single Occupancy</td>
<td>$11,129.00</td>
<td>$341.00</td>
<td>$11,470.00</td>
<td>3.06%</td>
</tr>
<tr>
<td>Quad Occupancy</td>
<td>$9,496.00</td>
<td>$341.00</td>
<td>$9,837.00</td>
<td>3.56%</td>
</tr>
<tr>
<td><strong>Wadsworth Hall w/ private bath</strong></td>
<td>$10,416.00</td>
<td>$341.00</td>
<td>$10,757.00</td>
<td>3.27%</td>
</tr>
<tr>
<td>Standard Occupancy</td>
<td>$12,183.00</td>
<td>$372.00</td>
<td>$12,555.00</td>
<td>3.05%</td>
</tr>
<tr>
<td>Single Occupancy</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Residence Hall Room &amp; Meal Rate</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reduced Occupancy</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Quad to 2</td>
<td>$9,982.00</td>
<td>$341.00</td>
<td>$10,323.00</td>
<td>3.42%</td>
</tr>
<tr>
<td>Quad to 3/Triple to 2</td>
<td>$9,610.00</td>
<td>$341.00</td>
<td>$9,951.00</td>
<td>3.56%</td>
</tr>
<tr>
<td>Triple to 1</td>
<td>$11,129.00</td>
<td>$341.00</td>
<td>$11,470.00</td>
<td>3.06%</td>
</tr>
<tr>
<td>Wads Quad to 2</td>
<td>$10,075.00</td>
<td>$341.00</td>
<td>$10,416.00</td>
<td>3.38%</td>
</tr>
<tr>
<td>Wads Quad to 3</td>
<td>$9,889.00</td>
<td>$341.00</td>
<td>$10,230.00</td>
<td>3.45%</td>
</tr>
<tr>
<td>Triple Suite to 2</td>
<td>$10,819.00</td>
<td>$341.00</td>
<td>$11,160.00</td>
<td>3.15%</td>
</tr>
<tr>
<td>DHU Quad Suite to 3</td>
<td>$10,819.00</td>
<td>$341.00</td>
<td>$11,160.00</td>
<td>3.15%</td>
</tr>
</tbody>
</table>

Meal Plans are Unlimited Access with Dining Dollars
Platinum Meal Plan ($300 Dining Dollars per semester) option, rates as recommended above, plus $155.00
Gold Meal Plan ($150 Dining Dollars per semester) costs are shown above in Room and Board Rates
Silver Meal Plan ($100 Dining Dollars) option, rates as recommended above, less $93.00
* Rate reported to US Dept of Education Integrated Post-secondary Education Data System

### Hillside Place Residence Hall

**Occupancy Dates:** August 22, 2015 - December 19, 2015 and January 9, 2016 - April 30, 2016

<table>
<thead>
<tr>
<th>Single Bedroom and Meal Rate</th>
<th>2014-2015 Room &amp; 50 Block</th>
<th>Proposed Increase</th>
<th>2015-2016 Room &amp; 50 Block</th>
<th>Percent Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single Bedroom in Shared Apartment</td>
<td>$8,980.00</td>
<td>$330.00</td>
<td>$9,310.00</td>
<td>3.57%</td>
</tr>
<tr>
<td>Single Bedroom Apartment</td>
<td>$9,650.00</td>
<td>$330.00</td>
<td>$9,980.00</td>
<td>3.42%</td>
</tr>
</tbody>
</table>

50 Meal Block per semester - meals expire at the end of each semester
75 Meal Block per semester - meals expire at the end of each semester, rate as recommended above, plus $324
150 Meal Block per semester - meals expire at the end of each semester, rate as recommended above, plus $1300
Traditional residence hall meal plan is also available
Block meal plans are only available for the Hillside Place

### Daniell Heights Apartments

** Lease Agreement Dates:** July 1, 2015 to June 30, 2016 or August 15, 2015 to June 30, 2016

<table>
<thead>
<tr>
<th>Monthly Rental Rate</th>
<th>2014-2015</th>
<th>Proposed Increase</th>
<th>2015-2016</th>
<th>% Increase Proposed</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Student Family Rates</strong> (rates are per apartment)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>One Bedroom</td>
<td>$645.00</td>
<td>$10.00</td>
<td>$655.00</td>
<td>1.55%</td>
</tr>
<tr>
<td>Two Bedroom</td>
<td>$720.00</td>
<td>$11.00</td>
<td>$731.00</td>
<td>1.53%</td>
</tr>
<tr>
<td>Three Bedroom</td>
<td>$925.00</td>
<td>$14.00</td>
<td>$939.00</td>
<td>1.51%</td>
</tr>
<tr>
<td><strong>Staff and Faculty Rates</strong> (rates are per apartment)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>One Bedroom</td>
<td>$805.00</td>
<td>$25.00</td>
<td>$830.00</td>
<td>3.11%</td>
</tr>
<tr>
<td>Two Bedroom</td>
<td>$885.00</td>
<td>$30.00</td>
<td>$912.00</td>
<td>3.39%</td>
</tr>
<tr>
<td>Three Bedroom</td>
<td>$1,085.00</td>
<td>$40.00</td>
<td>$1,120.00</td>
<td>3.69%</td>
</tr>
</tbody>
</table>

Daniell Heights increases effective July 1, 2015
V-F. Board of Control Policy 14.3. Copyright Policy Regarding Scholarly, Academic and Artistic Works

The University Senate and the Administration are requesting that the Board of Control adopt a copyright policy specifically addressing scholarly, academic and artistic works created by University employees.

Michigan Technological University’s Intellectual Property Policies currently have no specific reference to Scholarly, academic and artistic works or any provision that books, articles, works of art, curricular material, lecture notes, compositions, exhibitions or other related works created by employees in the course of or to accomplish their University employment and/or with the use of University equipment are excluded from University ownership. Board of Control policy 14.1 (Patents and Proprietary Rights) states in part that the research objectives of the University include to encourage scholarship and to assist and improve education and that the University employs personnel and admits students who may be active in the use of computers, use and generation of software and in related endeavors for the above purposes but not in expectation of their producing income from their assigned activities. It further provides a method and means of sharing any royalties received by the University with authors or inventors.

Absent a clear statement that scholarly, academic and artistic works produced by its faculty and staff in the course of their employment are excluded from University ownership and belong to the author, the ownership of such rights lies in the University. This proposed policy modifies that University ownership and releases its rights in these works to the employee or student.

A formal and explicit policy of exclusion is clearly needed because accepted interpretations of current copyright law would provide that all of the following routine (albeit hypothetical) situations or practices undertaken by faculty and staff have potentially been in violation of the University’s rights under federal copyright law:

a. Scholars assigning copyright on academic publications over to journal or book publishers.
b. Artists offering artworks for sale at campus events (like the Great Lakes Showcase) or private events (like in the Copper County Community Arts Center or other National/International shows).
c. Staff or Faculty that mentor or advise community organizations such as youth hockey teams designing logos or creating playbooks for those teams, when that individual reports that community service in their annual review.
d. Graduate student teaching assistants who develop lecture notes during their employ at Michigan Tech, then use those notes, exercises, presentation slides, or digital learning tools at another university or job.
c. Any MTU employee putting educational resources into the public domain under Creative Commons license.

It was moved by R. Jacquart, supported by L. Ashford, and passed by voice vote without dissent, that the Board of Control adopt Board of Control Policy 14.3. Copyright Policy Regarding Scholarly, Academic, and Artistic Works as presented herein.

The policy shall read as follows:

**14.3. COPYRIGHT POLICY REGARDING SCHOLARLY, ACADEMIC AND ARTISTIC WORKS**

A. Transfer of SCHOLARLY WORKS: The University hereby transfers its rights to copyright SCHOLARLY WORKS now in existence or hereafter created to the FACULTY or employee who authored those works—with the following conditions and exceptions.

1. Conditions. —The University prohibits the incorporation of Michigan Tech’s name, logos, seals and other symbols in the later use of SCHOLARLY WORKS without its written consent and reserves the nonexclusive right and license to without charge:

   a. use SCHOLARLY WORKS for educational or administrative purposes consistent with its educational mission and academic norms; and
   b. preserve, archive, and host SCHOLARLY WORKS in its institutional repositories, such as the Digital Commons at Michigan Technological University, University Archives and Copper Country Historical Collections, or the campus computing network, where FACULTY can control the timing and scope of access to their copyrighted works.

2. Exceptions—The University does not, under this policy, transfer its copyright in SCHOLARLY WORKS:

   a. that are authored as required DELIVERABLES under a sponsored activity agreement;
   b. when that would put the University in violation of or conflict with an applicable contract or law;
   c. that are specifically commissioned by the University or are created as part of an administrative assignment to, for, or on behalf of the University;
   d. that are software under Board of Control Policy 14.1; or
   e. that are or have been transferred to the University in writing (other than the Board of Control Policy 14.1 acknowledgement which FACULTY sign as condition of employment).
f. if FACULTY created instructional material is intended to be sold to third party providers of on-line or other courses during or after FACULTY’s time of employment at Michigan Tech. This section f is not intended to prohibit use by the creator of such scholarly works in the normal course of the creator’s current or future employment as an educator.

B. Students: Students hold the copyright in works they author, unless they have authored works as EMPLOYEES or transferred their copyright in writing to the University or other entity.

C. INDEPENDENT CONTRACTORS: It is the general practice of the University to have INDEPENDENT CONTRACTORS transfer to the University, in writing, the copyright in works they create for, in conjunction with, or on behalf of the University.

D. Collaborative and Joint Works: When people collaborate to author a copyrighted work, it often results in a “joint work” in which all the rights holders jointly hold nonexclusive rights to use the work. EMPLOYEES and students who collaborate with each other or with non-University third-parties (e.g., volunteers, visitors, and collaborators) are encouraged to describe or determine, in writing, the disposition of copyright prior to authoring the work.

E. University-Held Works:

1. Disposition: Ordinarily, the University units most closely associated with the creation of specific University-held works may authorize uses of those works (e.g., they may authorize a third-party to copy, adapt, or distribute a University-held work). The disposition of the following University-held works, however, shall be managed by the responsible unit of the Office of the Vice President for Research: software intended to be revenue-generating; software funded under a sponsored activity agreement; and any DELIVERABLES funded under a sponsored activity agreement.

2. Notice and Registration: University-held works that are registered with the U.S. Copyright Office or that include a copyright notice should identify the “Michigan Technological University” as the copyright holder.

3. Freedom to Contract: The University is free to contract with EMPLOYEES, students, or others to license uses of or to transfer or acquire the copyright in works.

F. Policy Interpretation and Dispute Resolution: This policy and its implementation may require interpretation and review. University constituents should make every attempt to resolve disputes informally with the assistance of one or more of the following: the Office of the Ombudsman, Office of the Provost and Vice President of Academic Affairs, Vice President for Research, Chief Information Officer, Director of the Office of Innovation and Industry Engagement, or other official. If informal procedures and consultation do not provide resolution of a dispute or policy issue,
University constituents may file a request for formal dispute resolution or policy interpretation with the Office of the Provost.

G. Definitions:

DELIVERABLES means copyrighted works that must be authored and delivered in order to comply with the obligations of a sponsored activity agreement.

EMPLOYEES means any people employed by Michigan Technological University in any capacity, whether they are faculty, staff, administration, or students and whether they are employed full-time, part-time, or in a temporary capacity.

FACULTY means full-time and part-time tenured, tenure-track, research, lecturer, clinical, and adjunct faculty, as well as librarians, archivists, and curators.

INDEPENDENT CONTRACTORS means non-EMPLOYEES retained by the University to provide goods or services.

SCHOLARLY, WORKS means SCHOLARLY, ACADEMIC AND ARTISTIC works authored by FACULTY within the scope of their employment as part of or in connection with their teaching, research, or scholarship. Common examples of SCHOLARLY WORKS include: lecture notes, case examples, course materials, textbooks, works of nonfiction, novels, lyrics, musical compositions/arrangements and recordings, journal articles, scholarly papers, poems, architectural drawings, software (see exception 2.d), visual works of art, sculpture, and other artistic creations, among others, regardless of the medium in which those works are fixed or disseminated.

H. Trademark

This policy does not grant FACULTY the right to use the name of Michigan Tech or any images representing Michigan Tech in the use of any SCHOLARLY WORKS which are outside of their duties as FACULTY of Michigan Tech or are not conducted on behalf of Michigan Tech.

V-G. Grant Application for the Michigan Coastal Management Program

The University will prepare a proposal for submission to the Michigan Coastal Management Program (MCMP), within the Department of Environmental Quality (DEQ). The MCMP provides grant funds to Michigan’s coastal communities and partners to assist in the development of vibrant and resilient coastal communities through the protection and restoration of sensitive coastal resources and biologically diverse ecosystems. The funds requested in this proposal will be used in restoring the waterfront which runs adjacent to Michigan Tech’s campus. The award period for this grant is October 1, 2015 to December 31, 2016.
It was moved by P. Ollila, supported by R. Jacquart, and passed by voice vote without dissent, that the Board of Control approves the submission of the grant application to the Michigan Coastal Management Program for improvements to the waterfront.

V-H. MEDC SmartZone Agreement

In 2002, the Board of Control authorized the President to sign the original SmartZone agreement as long as there were no material changes to what the Board reviewed in December 2001. With the approval of the Marquette Satellite SmartZone, the Michigan Tech EnterPrise SmartZone will receive a 15-year extension to its tax capture. This extension is a material change to the original agreement, and therefore the Administration is requesting Board of Control approval of the new agreement. There are no other changes in the new agreement that materially affect Michigan Tech.

It was moved by T. Baldini, supported by L. Kennedy, and passed by voice vote without dissent, that the Board of Control authorizes the President, or his designee, to sign the agreement with the Michigan Economic Development Corporation to extend the tax capture for the Michigan Tech EnterPrise SmartZone to December 31, 2032.
Michigan Tech Enterprise
SmartZone Agreement
Amendment One
By and Between
Michigan Economic Development Corporation,
City of Houghton
City of Hancock
Local Development Finance Authority of the Cities of Houghton and Hancock
and
Michigan Technological University.

This Amendment One (the "Amendment"), dated August 20, 2014, is to the Michigan Tech Enterprise SmartZone Agreement entered into on or about February 7, 2002 (the "Agreement") by and between Michigan Economic Development Corporation (the "MEDC") the City of Hancock and the City of Houghton (collectively the "Cities"), the Local Development Finance Authority of the Cities of Houghton and Hancock (the "Authority") and the Michigan Technological University (the "University") (collectively the "Parties"). Under the Agreement, the MEDC contracted with the Cities, Authority, and University to establish the terms and conditions governing the Michigan Tech Enterprise SmartZone (the "Host SmartZone"). The parties to the Michigan Tech Enterprise SmartZone Agreement now desire to amend the Agreement to include and recognize a Satellite SmartZone in Marquette.

WHEREAS, the Michigan Legislature enacted Public Act 108 of 2008 to amend Public Act 281 of 1986 to promote the development of high technology businesses throughout the State of Michigan;

WHEREAS, the MEDC is authorized to designate distinct geographic areas within authorities in municipalities that do not have a certified technology park if a municipality that contains a certified technology park designates the authority without a certified technology park as a certified technology park (referred to herein as a "SmartZone");

WHEREAS, by resolution dated August 29, 1998, Marquette created a Local Development Finance Authority exercising powers in the River Park Complex the ("Satellite LDFA");

WHEREAS, by resolution, Marquette expanded the Satellite LDFA to encompass the entire city of Marquette;

WHEREAS, by resolution #18-14 dated August 20, 2014 the City of Hancock resolved to enter into an agreement with the City of Houghton, City of Marquette, and the Satellite LDFA to designate the Satellite LDFA District as a Smartzone.
WHEREAS, by resolution 2014-1499 dated August 13, 2014 the City of Houghton resolved to enter into an agreement with the City of Hancock, City of Marquette, and the Satellite LDFA to designate the Satellite LDFA District as a SmartZone Satellite.

WHEREAS, by resolution dated August 15, 2014, the City of Marquette resolved to enter into an agreement with the City of Hancock, the City of Houghton, and the Satellite LDFA to designate the Satellite LDFA District as a SmartZone Satellite.

WHEREAS, by resolution dated August 13, 2014, the Satellite SmartZone resolved to enter into an agreement with the City of Marquette, the City of Hancock, and the City of Houghton to designate the Satellite LDFA District as a Smart Zone Satellite, subject to the approval of the MEDC.

WHEREAS, Pursuant to MCL 125.2162b Cities entered into an agreement dated August 20, 2014 with the City of Marquette and the Satellite LDFA to designate a distinct geographic area within the Marquette Authority as a SmartZone Satellite, (the "Designation" attached hereto as Appendix A); The Designation includes provisions agreeing to the identification of criteria required by MCL 125.2162(b):
   a. Identify the unique characteristics and specialties offered by the public and private resources available in the Satellite SmartZone.
   b. Identify the benefits to regional cooperation and collaboration.
   c. Identify how the Satellite SmartZone adds value to the mission of the Host SmartZone.

These criteria are referred to herein as the "Legislative Criteria."

WHEREAS, the Designation has been filed with the MEDC, and the Parties now desire to amend the Agreement to incorporate the rights and obligations of the parties in regard to the designation of the Satellite LDFA District as a Satellite Smartzone.

WHEREAS, The Host SmartZone and Satellite LDFA agreed to the following terms in the agreement to designate the Satellite SmartZone:
   a. Satellite Development and TIF Plan must include LOCAL TIF if requesting state school TIF capture.
   b. Satellite SmartZone Plan must include a budget that includes at least $200,000/year for operations.
   c. Host and Satellite SmartZone must agree to provide monthly reporting, that includes providing the following metrics for the high-technology activity occurring in the SmartZones: funding received by the SmartZone organization (and source of that funding), companies created, companies relocated into the SmartZone, companies expanded, companies served, and for these companies - jobs created, jobs retained, new sales, and follow-on-funding received by these companies (including amount and source of such funding - sources including state funds, federal funds, venture capital, angel funds, bank/loan, owner investment, other) (the "Monthly Reporting.")
WHEREAS, 2012 PA 290, Section 2 (j) (ii) (B) allows the Host that designated the Satellite to amend their Development and TIF Plan and extend their TIF capture for an additional 15 years subject to the approval of the state treasurer and the president of the MEDC.

NOW THEREFORE the Parties now desire to amend the Agreement as follows.

1. The Cities, Marquette and the Satellite SmartZone represent and warrant that the SmartZone was created in compliance with the Public Act 281 of 1986 in all material respects.

2. The Cities shall cause the Satellite Smartzone to provide a TIF plan including the Legislative Criteria.

3. Houghton/Hancock SmartZone must provide the Monthly Reporting to MEDC in a manner directed by and satisfactory to the MEDC.

4. The MEDC will enter into a SmartZone Agreement with the City of Marquette and the Marquette Local Development Finance Authority to designate the Satellite SmartZone under the terms and conditions required pursuant to MCL 125.2162a.

5. Section 3.09 of the Agreement is amended to include the following language:

   (e) An annual report summarizing the Monthly Reporting results.
   (f) The amount of Tax Increment Financing collected and expensed during the prior fiscal year of the Authority.
   (g) The amount of projected Tax Increment Financing for the next fiscal year of the Authority.
   (h) An annual report summarizing activities that indicate Host SmartZone and Satellite SmartZone continue to comply with Legislative Criteria identified above.

6. Pursuant to MCL 125.2152 (2)(jj)(B) the Cities may amend their Development and TIF Plan identified in Section 3.01 of the Agreement to provide for an additional 15 year period, including capturing School Taxes. Before these amendments take effect, the Cities must receive the ratification of the State Treasurer and the approval of the President of the Michigan Economic Development Corporation. Upon receipt of this ratification Section 3.01 is amended to change “fifteen (15)” to “thirty (30).”

7. If the Satellite does not complete the Satellite Development and TIF Plan by June 30, 2015 the Cities will have until December 31, 2017 to designate an alternative Satellite SmartZone.

8. If Satellite SmartZone fails to file its plan, or the plan is not ratified by the State Treasurer and/or approval of the President of the MEDC, then the
MEDC may revoke the Cities’ amendment to their Development and TIF Plan and the above amendment to increase the tax capture period from 15 to 30 years may be revoked, unless an amended Development and TIF Plan is submitted and approved by the President of the MEDC and ratified by the State Treasurer that addresses a remedy to fulfilling the Legislative Criteria.

9. Section 5.01 of the Agreement is amended to replace “December 31, 2017” with “December 31, 2032.”

10. If after approval of the respective Development and TIF Plans, either the Host Smartzone or the Satellite LDFA default and no longer exists, the survivor must submit an amended Development and TIF Plan to be approved by the President of the MEDC and ratified by the State Treasurer that addresses a remedy to fulfilling the Legislative Criteria.

Except as specifically provided above, the Parties agree that all terms and conditions of the Agreement shall remain unchanged and in effect.

(remainder of page intentionally left blank)
Execution Copy

The signatories below warrant that they are empowered to enter into this Amendment.

City of Houghton ACCEPTANCE:

Dated: ____________

Robert Backon
Mayor

City of Hancock ACCEPTANCE:

Dated: ____________

Melissa McKenzie
Mayor

Local Development Finance Authority of the Cities of Houghton and Hancock ACCEPTANCE:

Dated: ____________

Daniel D. Crane
Chair

Michigan Technological University ACCEPTANCE:

Dated: ____________

David D. Reed
Vice President for Research

MEDC ACCEPTANCE: Michigan Economic Development Corporation

Dated: ____________

Steve Arwood
Chief Operating Officer
Appendix A: Host-Satellite Designation Agreement

AGREEMENT PURSUANT TO ACT 281 BETWEEN THE CITY OF Houghton, CITY OF HANCOCK, CITY OF MARQUETTE, AND THE CITY OF MARQUETTE IDA

The City of Houghton, County of Houghton, State of Michigan ("Houghton"), the City of Hancock, County of Houghton, State of Michigan ("Hancock"), the City of Marquette, County of Marquette, State of Michigan ("Marquette") and the City of Marquette Local Development Finance Authority, County of Marquette, State of Michigan ("Marquette IDA") enter into this Agreement (the "Agreement") as of ______, 2014.

PARTIES

Having determined that it is in the best interest of the residents of their respective communities and in an effort to eliminate the conditions of unemployment, underemployment, and joblessness and to promote economic growth in Houghton, Hancock and Marquette, the governing bodies of the Parties have agreed to establish a SmartZone satellite in the City of Marquette pursuant to Act 281 of the Public Acts of Michigan 1986 as amended (the "Act").

Under the Act, the Marquette IDA may exercise its powers in a certified technology park designated pursuant to the Act. A certified technology park may consist of or a portion of the Marquette IDA District as such district is described by the resolutions enacting the Authority. The Parties have entered into this Agreement to outline certain procedures as they relate to the membership and operation of this SmartZone Satellite.

Therefore, the Parties agree as follows:

1. The Parties agree to work together for the purpose of creating and retaining technology enterprise and employment through commercialization of research and emerging technologies within a regional strategy, currently referred to as Innovation Shores.

2. Response to the legislative criteria:

4. The unique characteristics and capabilities of the Satellite SmartZone include: Northern Michigan University and the College of Human Medicine at Michigan State University partnering with the Marquette Satellite SmartZone and having expertise in medical devices, health care, natural resources, energy, IT, social media, food processing, applied technology and business management.

3. The benefits to regional cooperation and collaboration. The benefits of regional cooperation and collaboration created by the Satellite SmartZone partnership will provide greater momentum for complementary development that is already taking place throughout the region. The Innovation Shores concept combines, skills, talent and resources between MITC and the Marquette Satellite, which in turn becomes

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the catalyst for innovation and partnership. It is anticipated that the Satellite Board will attract energetic industry leaders that will provide inspired leadership for their technology clusters. When successful, this public-private partnership will greatly enhance the attraction of top research talent, expand entrepreneurial capacity, provide a natural nexus for participation by financial interests, and link to business expansion and job growth.

C. The Marquette Satellite SmartZone adds value to the mission of MTEC SmartZone and increased opportunities for MTEC companies through access to experienced business leadership, a growing number of technology companies, and expands access to regional finance partners. These networks along with new academic partners like Northern Michigan University and Michigan State University and capital providers like Northern Initiatives bring new resources to significantly broaden the talent and resource base for MTEC companies.

3. The City of Marquette and the Marquette LDFA agree to approve a Tax Increment Financing Plan that includes capturing a portion of the City of Marquette General Fund millage.

4. The City of Marquette and the Marquette LDFA agree to guarantee a minimum yearly operation budget for the SmartZone of $200,000.

5. The MTEC SmartZone and the Marquette Satellite SmartZone agree to the monthly reporting as required by MEDC.

6. The City of Marquette and the Marquette LDFA agree to a SmartZone and Development Plan that promotes high tech business and job growth by collaboration with Northern Michigan University, Michigan State University, Michigan Technological University, Michigan Tech Enterprise Corporation, and private sector community partners.

7. The Parties hereby designate the Marquette LDFA District as a Satellite certified Technology Park of the Houghton/Hancock SmartZone pursuant to Section 12th of the Act.

<table>
<thead>
<tr>
<th>City of Houghton</th>
<th>City of Hancock</th>
<th>Marquette LDFA</th>
<th>City of Marquette</th>
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</thead>
<tbody>
<tr>
<td>By: Robert Baden</td>
<td>By: Paul McNamara</td>
<td>By: John Trudel</td>
<td>By: Robert Kimball</td>
</tr>
<tr>
<td>Robert Baden, Mayor</td>
<td>USA McNamara, Mayor</td>
<td>Paddy Trudel, Chair</td>
<td>Robert Kimball, Mayor</td>
</tr>
<tr>
<td>By: Ann Vallimeth, Clerk</td>
<td>By: Karen Naisbitt, Clerk</td>
<td>By: Elizabeth Kolder, Sec.</td>
<td>By: David Meda, Chair</td>
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</tbody>
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VI. REPORTS
A. Enrollment Report - Dr. Les Cook, Vice President for Student Affairs and Advancement
B. University Senate Report – Dr. Craig Waddell, President
C. Undergraduate Student Government Report – Mr. Andrey Merzlyakov, President
D. Graduate Student Government Report – Ms. Sasha Teymorian, President

Copies of these reports were included in the agenda book.

VII. INFORMATIONAL ITEMS
A. Analysis of Investments
B. University Issued Bond Balances
C. Research and Sponsored Programs
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

President Mroz pointed out that in the Informational Items there are a number of news stories that are listed and it’s really worth taking a look at these because there has been a lot of attention focused on Michigan Tech lately. Jennifer Donovan, our Director of News & Media Relations, is responsible for a lot of this as well as our athletes, who represent us so well across the region and the United States.

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

It was moved by T. Baldini, supported by L. Ashford, and passed by voice vote without dissent, that the Board of Control 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 Fream – Yes
Baldini – Yes Ashford - Yes
Kennedy - Yes

The motion passed.
10139
12/19/14

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

**Presidential Contract**

It was moved by L. Ashford, supported by L. Kennedy, and passed by voice vote without dissent, that the Board of Control authorizes the Board Chair to negotiate terms for an employment contract for the President subject to the Board’s subsequent approval.

**XI. ADJOURNMENT**

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

________________________________________
Secretary of the Board of Control

________________________________________
Chair, Board of Control