Minutes of the Board of Control - Minutes of the Board of Control February 19, 2015

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

Meeting of
February 19, 2015
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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 February 19, 2015.

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 February 2015, 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
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 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

Board Secretary, D. Tahtinen, recommended that item V-F. Board of Control Policy 13.2.4. Second Bachelor’s Degree be deleted from the agenda.

It was moved by T. Woychowski, supported by T. Baldini, and passed by voice vote without dissent, that the agenda of the formal session of February 19, 2015, as distributed to the Board, be approved as amended.

II. OPENING REMARKS

Chair’s Comments

Good morning, and welcome to our first meeting in 2015.

It gives me great pleasure to welcome our two new Board members, Brenda Ryan and Bill Johnson.

Brenda is president and owner of Ryan Industries, Ryan Properties and Alliance Industries. She is a Women in Science, Technology, Engineering and Production honoree, was honored as a National Minority Supplier Development Council “Success Story” in 2013, Minorities in Business Small Business Person of the Year and a Chrysler Group LLC Diversity Supplier of the Year. Brenda earned a bachelor’s degree in metallurgical engineering from Michigan Tech, and a master’s degree in materials science engineering from the University of Virginia. In addition, Brenda was a member of this Board from 1979 to 1988.

Bill is president and CEO of The Berean Group. He served as chairman, president and CEO of SEMCO Energy, as CEO of Northern Pipeline Construction Company, and as president and CEO of the Gas Service Company. Bill serves as chairman of the Biglari Holdings board of directors, is a member of The Right Place, and is vice chair of the Fremont Area Community Foundation. Bill earned his bachelor’s of science and master’s of arts degrees from Central Michigan University. Also, Bill served as a trustee on Central’s governing board from 1998 to 2002.

We are very pleased to have Brenda and Bill on the Board. With their experience, knowledge, commitment and enthusiasm, they will be able to hit the ground running, as we look forward to a very productive year.

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 vision of growing as a premier technological research university of international stature, delivering education, new knowledge, and innovation for the needs of our world and our goals.
Goal 1: A world-class and diverse faculty, staff and student population:

- Professor Nancy Auer of Biological Sciences, has been named winner of the 2015 Michigan Chapter of the American Fisheries Society’s Justin Leonard Award. The award recognizes outstanding professional competence and achievement of a professional employed in the field of fisheries or aquatic biology in Michigan.
- The American Physical Society has elected Ravindra Pandey to Fellowship in the society. Pandey, chair of the Department of Physics at Michigan Tech, was recognized by the American Physical Society’s Division of Computational Physics.
- Les Cook, vice president for student affairs and advancement at Michigan Tech, has been appointed to a three-year term on the Board of Directors of NASPA Foundation. The NASPA Foundation is the fund-raising arm of NASPA, a national organization of student affairs professionals. The foundation gives small and large research grants and makes "Pillars of the Profession" awards to distinguished individual within the student affairs community.

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

- Michigan Tech ranked first among Michigan colleges and universities in the Social Mobility Index (SMI) and 42nd nationwide, in recognition for our efforts to increase access to higher education for economically disadvantaged students and families.
- Once again, Michigan Technological University has earned high marks from the Business Insider financial news website for the salaries its graduates earn at mid-career. In its latest list of “most underrated colleges in America,” Business Insider ranked Michigan Tech 15th in the nation for mid-career salaries and 10th in starting salaries among public universities.
- The College of Engineering's distance learning graduate engineering programs have been ranked 40th in the nation in online graduate engineering program rankings announced today by U.S. News and World Report.

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

- Qing-Hui Chen Assistant Professor of Kinesiology & Integrative Physiology received $458,920 from the U.S. Department of Health and Human Services-National Institutes of Health, for a project entitled, ER Stress and Reduced SK Channel Function in PVN in Rats with High Salt Intake.

President’s Comments

I would also like to extend my welcome, and thanks to Brenda Ryan, and Bill Johnson for their willingness to serve on the Michigan Tech Board of Control.

Yesterday, the Board heard presentations from Jill Hodges, Director of Institutional Equity, on Title 9 and from Suzanne Sanregret, Athletic Director, on many of the efforts to keep our students safe and healthy. What Suzanne didn’t mention, probably because she’s a humble nose to the grindstone kind of person, is how these efforts translate in the win and loss column:
Our Women’s and Men’s Basketball teams continue to do extremely well. The women are 22-1 and moved into the #8 spot in the USA Today coach’s poll this week.

The Men are 17-5 and will undoubtedly be heading to the GLIAC tournament.

Husky Hockey continues to have an incredible season and leads the nation in the most wins this season at 24-7. Players Tanner Kero, Blake Pietila and Alex Petan reached the century mark recently scoring 100 points as a Husky.

Our Nordic Skiers continue to make us proud as two recently carried the Tech and Team USA flag at the World National Championships in Kazakhstan, while others have brought home honors in Midwest races.

This follows on to both Football and Women’s Soccer getting playoff bids this year. So not only is the care we take on the administrative end essential, but it also is reflected in the standard of excellence that our students and coaches display on the field, the court and the ice as well.

Next week we will testify to the Senate Higher Education Appropriations Committee in Lansing. Time will be short so the message will be crisp, and we’ve been asked to address a number of issues related to results, efficiency, funding and suggestions on the funding formula.

In the absence of a time limit this morning, I be less than crisp but sharing some detail to provide background on what we will be discussing both in testimony and elsewhere.

The students at Michigan Tech are the beneficiaries of an action-based undergraduate and graduate education - they acquire and discover new knowledge through research and innovation.

We attract exceptional students, faculty, and staff from Michigan, the nation and the world who understand, develop, apply, manage, and communicate science, engineering, technology, and business. These people come to know there is opportunity for successful careers and a good life in Michigan.

And we know that Michigan appreciates these talented people.

With 86% of Michigan Tech undergrads and 88% of graduate students in STEM fields, it’s no surprise that last week, 734 recruiters from 241 companies made the “spring” career fair a record breaking event.

Last October’s career fair also posted record attendance when 1091 recruiters from 341 companies conducted over 4000 interviews for what is becoming career week.

With around 1200 graduates, and many more students hired for co-ops and internships, it’s not a surprise that Michigan Tech students enjoy a 96% placement rate, an average starting salary that is ranked 10th among public universities in the nation, and an average student loan payment that is 3.5% of starting salary, or about 1% less than the Michigan Income Tax.
This makes a Michigan Tech education one of the best values in the country according to Money Magazine, and a ticket to upward social mobility, ranked number 1 in the state among all colleges and universities, and number 42 nationally in College Net’s Social Mobility Index. Business Insider also ranks us as one of the most under-rated schools in the nation. Something I think the 1800 recruiters at the career fairs would dispute.

On the administrative side, we’ve worked to generate over $2.5M in savings among administrative units. One example is that through emphasis on Lean processes and safety, our workers compensation claims have gone from $300K in 2011 to $14K in 2014. A great savings in itself, not to mention the savings in pain and suffering and lost effort.

We are pleased by the Governor’s commitment to higher education as reflected in his budget proposal, and, in particular, the recognition that relief and a cap on the MPSERS unfunded actuarial liability is not only fair to the State’s retirees, but also the students who are paying tuition.

We will point out that we feel there are ways to improve and update the current funding formula.

We believe Michigan’s future demands a greater emphasis on Science, Technology, Engineering and Mathematics (STEM) related programs. And while there is well placed concern on urging the young people of Michigan to achieve “some” post secondary certification, let’s not forget that the unemployment rate for students with a bachelor’s degree is now 2.8%, essentially full employment, and the demand is increasing.

The Business Leaders for Michigan last week issued their report with both encouraging and sobering news.

- Wages for those with a bachelors degree are 100% more than for a high school graduate,
- Higher education has the potential to boost state GDP by $200MM, and
- 40,000 new jobs could be created by growing higher education to top ten status

However,

- Michigan ranks 31st in educational attainment in the % of its working age population with an associates degree or higher,
- So not surprising given the above that Michigan ranks 36th in per capita income, and
- Clearly not a top 10 state.

A state strategy is necessary to focus on higher education degrees, and particularly those in the areas where there is a significant shortage presently and a continued shortage projected for the future.

When it comes to the state funding formula, I’ll suggest that there be some recognition of corporate partnerships. Michigan Tech has increased its corporate funding by 56% this past year, and the MTEC SmartZone has helped new companies create 83 high tech jobs this year.
In addition, four startup companies have been spun out of university research and development in the past year and two so far this year, with two additional companies were started by students this year.

I’ll also mention that a funding formula that includes a so-called equity or foundation allocation on a head count basis ignores the demands of Michigan’s economic expansion, ranging from corporations to startup businesses, which need STEM grads who understand information technology, business and society and can communicate effectively.

Finally, we’ll testify that a six-year graduation rate is appropriate not only to the students who spend time on co-ops and internships putting their education to work while in school or trying their hand at starting a business, but also the employers who depend on co-ops and internships for high tech employees even before they graduate. Even with co-ops and internships, our 66% graduation rate is above our peers and the third highest in the state.

I will end thanking the Committee for their continuing, unavering, and tenacious support for Michigan Tech and higher education in general, and in particular, Chair of the Committee, Senator Tonya Shuittaker, for all her assistance and patience over years of serious effort to get recognition and relief on the MPSERS issue.

III. COMMITTEE REPORTS

Academic Affairs Committee Report

Mr. Woychowski presented the follow report to the Board.
Welcome to Bill Johnson and Review of:
- Charge to Academic Affairs Committee
- Seven Strategic Questions for Academic Affairs Committee

Action Item:
- BOC Policy 13.2.4. Second Bachelor’s Degree

Informational Items:
- Shelving of Information Systems Concentration within the Bachelor of Science in Computer Science
- Shelving of Computer Systems Science degree program
- Concentration in Computer Systems within the Bachelor of Science in Computer Science
- Graduate Certificate in STEM Education
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 student success in the future?
7. How must information technology be applied to achieve the strategic plan?

Discussion Items
- Update on Pavlis Honors College, Dr. Lorelle Meadows, Dean
- Percentage of Women Enrollment Goal

Miscellaneous Items
- State change from ACT to SAT
- Postdoctoral Research Fellows
- Provost Search Update

Research Update
Roundtable with the University Senate, GSG, and USG Presidents
- Craig Waddell, Sasha Teymorian, & Andrey Merzlyakov
Provost Report

Provost Max Seel provided the Board with the following report.

1. Internationally competitive faculty – 40% in endowed positions
2. Student body of 8750 - $500 million scholarship endowment
   - 5750 Undergraduates
   - 2000 Masters
   - 1000 PhD students
   - 40% Female and Top 10 for engineering undergraduate degrees granted to women
40% Female and Top 10 for engineering
undergraduate degrees granted to women

National Context: ASEE 2014 report
“Engineering by the Numbers”
Women received a higher percentage of engineering bachelor’s
degrees again, for the fifth straight year, climbing from 17.8
percent in 2009 to 19.1 percent in 2013 (however, it was at
20.3% 10 years ago in 2004!).

Based on enrollment trends, we expect to see the percentage of
women receiving an engineering bachelor’s degree to increase
slightly over the next few years.

MS: 23.9%
PhD: 22.4%
Women Engineering Students Summary

<table>
<thead>
<tr>
<th>BS</th>
<th>MS</th>
<th>PhD</th>
<th>Women %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nationwide: 19.1</td>
<td>23.9</td>
<td>22.4</td>
<td></td>
</tr>
<tr>
<td>MTU COE: 21.6</td>
<td>21.3</td>
<td>27.2</td>
<td></td>
</tr>
<tr>
<td>(MTU overall: 25.6</td>
<td>32.0</td>
<td>27.5</td>
<td></td>
</tr>
</tbody>
</table>

2035 Scenario

<table>
<thead>
<tr>
<th></th>
<th>2014</th>
<th>2035</th>
</tr>
</thead>
<tbody>
<tr>
<td>COE</td>
<td>22%</td>
<td>35%</td>
</tr>
<tr>
<td>CSA</td>
<td>36%</td>
<td>50%</td>
</tr>
<tr>
<td>SBE</td>
<td>38%</td>
<td>50%</td>
</tr>
<tr>
<td>SOT</td>
<td>7%</td>
<td>25%</td>
</tr>
<tr>
<td>SFRES</td>
<td>33%</td>
<td>50%</td>
</tr>
<tr>
<td>Michigan Tech</td>
<td>25%</td>
<td>40%</td>
</tr>
</tbody>
</table>

Top 10 Engineering BS granted to women - cut in 2013: 234
MTU COE: 234/644 = 36% (instead of 128/644 = 20%)
Women enrollment in COE has increased by 32% in the last 5 years, from 595 in 2009 to 788 in 2014!

Internationally competitive faculty

Identified Risks that could impact carrying out the strategic plan (scored by probability x impact):

- #2 4P/S1 = 20 Inability to recruit and retain world-class faculty; how to keep the enthusiasm of newly hired faculty and make them successful at Tech

Faculty mobility!

Popular Job Categories Inside Higher Ed homepage

- Faculty Jobs (5503)
  - Professions (2101)
  - Science / Engineering / Mathematics (1563)
  - Social Sciences / Education (1097)
  - Humanities (546)
  - Fine And Performing Arts (291)
- Executive Positions (475)
Research and Sponsored Programs Report

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

Sponsored Program Summary
2nd Qtr FY15 Activities
February 19, 2015

Dave Reed
Vice President for Research

Michigan Tech
Core Facilities

- Shared Research Equipment and Core Facilities Working Group, April, 2013
  - Recommend principles for the use and maintenance of shared equipment and core facilities, including staffing and financial sustainability.

Core Facilities

- Problems
  - No mechanism to insure equipment replacement or enhancement
  - Usage of single pieces of equipment not sufficient to support staff and train users
  - Units do not have sufficient funds to maintain
  - More people using a piece of equipment, more difficult to maintain and enforce operating procedures
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 second 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, the Treasurer of the Board, will present a high level review of the first quarter financial results, after this report.

The Committee also discussed the fiscal year 2016 budget planning parameters which included the enrollment projections and graduate and undergraduate tuition structures. In addition, we reviewed the updated Capital Investment Plan, and had discussions around funding construction and renovation projects.

The Committee reviewed and supports the following actions items for today’s meeting:
- Board of Control Policy 11.9. Policy Regarding Capital Additions
- Revised Agreement with the Portage Golf Course Corporation
- Approval for the Purchase of a Transmission Electron Microscope

Other items reviewed by the Committee included:
- Internal Audit Open Audit Observations
- MSPERS Update and GASB 68
- Report on Continuous Improvement using Lean Principles
- Historic Metrics and 5 Year Targets

Treasurer’s Report

Ms. Julie Seppala provided the Board with the following report.
Financial Report
Board of Control Meeting
Thursday, February 19, 2015

Outline

- Condensed Statement of Net Position
- Revenue & Expense Projection
- Current Fund Balances
- Cash Flow Chart

Balance Sheet
Condensed Statement of Net Position
as of December 31, 2014
(in 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>$80,330</td>
<td>$7,894</td>
<td>$88,224</td>
</tr>
<tr>
<td>Noncurrent Assets</td>
<td>242,147</td>
<td>242,147</td>
<td>484,294</td>
</tr>
<tr>
<td>Capital Assets, net</td>
<td>37,487</td>
<td>37,487</td>
<td>74,974</td>
</tr>
<tr>
<td>Total Assets</td>
<td>$259,904</td>
<td>$13,202</td>
<td>$273,106</td>
</tr>
<tr>
<td>LIABILITIES</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Current Liabilities</td>
<td>$84,706</td>
<td>$514</td>
<td>$85,212</td>
</tr>
<tr>
<td>Noncurrent Liabilities</td>
<td>76,024</td>
<td>5,125</td>
<td>81,149</td>
</tr>
<tr>
<td>Total Liabilities</td>
<td>$160,730</td>
<td>$5,639</td>
<td>$166,369</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>$103,496</td>
<td>$-</td>
<td>$103,496</td>
</tr>
<tr>
<td>Other net position, restricted and unrestricted</td>
<td>71,590</td>
<td>129,581</td>
<td>201,171</td>
</tr>
<tr>
<td>Total Net Position</td>
<td>$175,086</td>
<td>$139,581</td>
<td>$314,667</td>
</tr>
<tr>
<td>TOTAL LIABILITIES AND NET POSITION</td>
<td>$259,904</td>
<td>$131,202</td>
<td>$391,106</td>
</tr>
</tbody>
</table>
C. Leadership Committee

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

IV. CONSENT AGENDA

It was moved by T. Woychowski, 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 T. Woychowski, supported by R. Jacquart, and passed by voice vote without dissent, that the minutes of the formal session of December 19, 2014, as distributed to the Board, be approved.

IV-B. Gifts

It was moved by T. Woychowski, 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 December 31, 2014
Compared to Prior Year

<table>
<thead>
<tr>
<th>Gift Type</th>
<th>FY14 YTD Total</th>
<th>FY13 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>8,062,751</td>
<td>5,281,531</td>
<td>2,781,221</td>
<td>62.1%</td>
</tr>
<tr>
<td>Realized Planned Gifts (current year)</td>
<td>93,702</td>
<td>138,417</td>
<td>-44,715</td>
<td>-32.3%</td>
</tr>
<tr>
<td></td>
<td><strong>Current Year Subtotal</strong></td>
<td><strong>5,419,947</strong></td>
<td></td>
<td><strong>58.7%</strong></td>
</tr>
<tr>
<td>Cash (receipts from prior year pledges)</td>
<td>782,345</td>
<td>734,518</td>
<td>47,827</td>
<td>6.5%</td>
</tr>
<tr>
<td>Realized Planned Gifts (previously recorded)</td>
<td>3,077,742</td>
<td>2,156,588</td>
<td>921,154</td>
<td>42.7%</td>
</tr>
<tr>
<td></td>
<td><strong>Receipts from Previous Year Subtotal</strong></td>
<td><strong>3,860,096</strong></td>
<td></td>
<td><strong>33.5%</strong></td>
</tr>
<tr>
<td>Total</td>
<td>12,616,548</td>
<td>8,311,031</td>
<td>4,305,518</td>
<td>52.0%</td>
</tr>
</tbody>
</table>
### Michigan Technological University

**Michigan Tech Fund**

**Fundraising Productivity Report**

July 1, 2014 through December 31, 2014

Compared to Prior Year

<table>
<thead>
<tr>
<th>Source</th>
<th>FY15 YTD Total</th>
<th>FY14 YTD Total</th>
<th>FY14 Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Individuals - Major Gifts (25K and up)</td>
<td>2,982,630</td>
<td>2,370,484</td>
<td>3,282,814</td>
</tr>
<tr>
<td>Realized Planned Gifts (Unanticipated - 25K and up)</td>
<td>77,645</td>
<td>125,103</td>
<td>202,786</td>
</tr>
<tr>
<td>Individuals - non Major Gifts</td>
<td>1,078,207</td>
<td>1,164,462</td>
<td>1,870,682</td>
</tr>
<tr>
<td>Full Value New Planned Gift Commitments</td>
<td>6,630,087</td>
<td>6,306,559</td>
<td>11,975,623</td>
</tr>
<tr>
<td>Annual Fund</td>
<td>933,410</td>
<td>964,762</td>
<td>1,491,595</td>
</tr>
<tr>
<td>Corporate Sponsored Research</td>
<td>6,568,563</td>
<td>7,709,052</td>
<td>9,139,601</td>
</tr>
<tr>
<td>Corporations</td>
<td>897,563</td>
<td>1,233,926</td>
<td>2,013,494</td>
</tr>
<tr>
<td>Foundations &amp; Other Organizations</td>
<td>5,296,687</td>
<td>344,607</td>
<td>578,537</td>
</tr>
<tr>
<td>Gifts-in-Kind</td>
<td>170,562</td>
<td>214,722</td>
<td>388,088</td>
</tr>
<tr>
<td><strong>Grand Total</strong></td>
<td><strong>24,782,624</strong></td>
<td><strong>20,623,456</strong></td>
<td><strong>31,019,128</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

### IV-C. Resignations, Retirements & Off Payroll

It was moved by T. Woychowski, supported by R. Jacquart, and passed by voice vote without dissent, that the Board of Control accepts the resignations and confirms the off payroll determinations.
IV-D. Degrees in Course

It was moved by T. Woychowski, supported by R. Jacquart, and passed by voice vote without dissent, that the Board of Control approves the awarding of the degrees as specified, to each of the candidates listed, and offer congratulations.

Candidates for Degrees – Conferral Term 201408

Bachelor of Arts in Communication, Culture, and Media
Hailey Elizabeth Rouleau

Bachelor of Arts in Sound Design
Steven Michael Green
Beau A Seigfreid

Bachelor of Arts in Physics
Andrew Blake Villa - Cum Laude

Bachelor of Arts in History
Adam Douglas Riederer

Bachelor of Arts in Scientific and Technical Communication
Nicholas Sobczak

Katherine Louise Baeckeroot - Magna Cum Laude

Samantha Faith Manderfield

Erin Michelle Norton - Magna Cum Laude
Bachelor of Science in Accounting

Annette Lynne Perkowski
Cole Robert Hodges
Judy Beth Isaacscon
James Patrick Mills
Matthew Nicholas Vertin - Summa Cum Laude
Melanie Jean Wells - Cum Laude

Bachelor of Science in Economics

Shiwang Agarwal
Zhongshi Li

Bachelor of Science in Finance

Troy Gerald Hecht - Magna Cum Laude

Bachelor of Science in Management

Sandra Mae Freeman
Jesse Daveon Linebarger
Samantha J Robbins
Cole Dwayne Smith
Zhaoeng Sun

Bachelor of Science in Management Information Systems

Cassandra Alanagh Diers
Cameron Michael Shortz

Bachelor of Science in Marketing

Ethan Daniel Deshetsky
Haley Marie Florinksi
Frank J Kampe
Alexandra Kay Kitchen
Christopher Michael LaBaere
Carolyynn E Magnuson
Patrick Thomas Smith
Sarah Kay Vadnais

Bachelor of Science in Applied Geophysics

Matthew Scott Laird

Bachelor of Science in Biomedical Engineering

Patrick James Anderson
Joseph M Frontera
Christopher L Heting
Melissa Anne Mack - Magna Cum Laude

Bachelor of Science in Engineering

David Paul Rosen - Cum Laude
David R Abernathy

Bachelor of Science in Civil Engineering

Wanbing Bai - Cum Laude
Alex G Brown
Douglas Charles Burmeister - Cum Laude
Dylan Anthony Byington
Alex Richard Chizmadia - Magna Cum Laude
Ashley Marie Cline
Derek Ryan Collar
Weike Dai
Jacob Marcus Edwards - Cum Laude
Trevor Michael Ehredt
John Michael Ferry
Nathaniel Paul Jurmu
John Florian Kleiber
Samuel Justice Kolesar
Evan John Krzyske - Cum Laude
Aaron Michael Lee
Matt R Messina
Brent S Moore
Deanna Leigh Occhiatti
Erika Lynn Poli - Summa Cum Laude
10164
02/19/15

Christopher David Roell - Magna Cum Laude
Matthew Wyatt Smith
Alyssa Mae Smith - Cum Laude
Hanjing Song
Thomas James Stroup - Summa Cum Laude
Adam Connor Tuff - Magna Cum Laude
Mengchan Wang
Nelson Robert Wienie

Bachelor of Science in Chemical Engineering
Austin James Nagelkirk
Alexander P Atang
Korbin Lee Bickel
Andrew Joshua Deering
Kyle Kenneth Krueger
Mingzi Li - Magna Cum Laude
Michael Dominic Mandalari
Andrew Joseph Schlosser
Anthony James Swisz

Bachelor of Science in Computer Engineering
Curtis Luke Baugher
Justin L Boerma
Donald James Bonner
Brandon Lee Cathey
Anthony Gene Chartrand
Shane Robert Clifford
William Earl Dallmann - Cum Laude
Rometros Sylver Fowe
Nathan Dale Gramlich
Erik Kamau Griffith
Hai Jiang
Evan Alexander Krettek
Stuart Conrad Larsen
Xiang Long
Jie Peng
Kevin Paul Shawbitz
Jared Thomas Telford
Craig P Thole
Timothy J Tippett
Qianman Wang
Huiiming Wang
Hao Ye

Bachelor of Science in Environmental Engineering
Ali Jakeway Dahilbacka - Magna Cum Laude
Wesley Vernon Ellenwood
Claira Marie Hart
Joseph Kafczynski
Justen Gregory Kosmowski
Paige Elizabeth Lentovich
Jiexun Liu
Kevin Daniel Madson - Magna Cum Laude
Courtney E Sian
Nicholas Allen Snow
William James Tillmans - Magna Cum Laude
Qishen Zhang
Bachelor of Science in Geological Engineering
Garvie Curtis Crane
Brittney Lee Szabo
Benjamin M Abraham
Patrick James Anderson
Steven Jay Balbierz
Nathan Thomas Beyers - Summa Cum Laude
Rigel Martin Bruening
William R Burns
Zachary David Christensen
Daniel James Clement
Dillon John Croft
Justin Michael Dalrymple-Kelly
Xin Diao
Tyler J DuMez
Zachary Oren Dvorak
Brandon Joseph Dziuda
Kyle William Ekstrum - Magna Cum Laude
Chais Timothy Eliason
Taylor D Erva
Kathryn Marie Frey
Samuel Clay Genord - Cum Laude
Joshua A Hages
Seth Jared Hanson
Kyle Douglas Haugen
Ryan James Heenan - Cum Laude
Shawn Christopher Hill - Summa Cum Laude
John Kendall Hillaker
Anne Elise Jarvis
Jesse Jaskolski - Magna Cum Laude
Ben W Kangas - Cum Laude
Amanda Michelle Keech - Magna Cum Laude
Andrew James Lewis - Cum Laude
Gabriel Matthew Martinez
Andrew Scott McAuliffe
Alan Frederick McGee
Samuel James Michels - Magna Cum Laude
Martin Jean Minteer
Mark Jeffery Niemi
Gary Donald Oberholtzer
Tyler John Olsen
Bradley Thomas Pennala
Ross Thomas Perigo - Cum Laude
Riley D Peterson - Magna Cum Laude
Philip Michael Pierce
Eric Matthew Pietila - Cum Laude
Matthew C Porter - Magna Cum Laude
Greg M Roberts
Wade Lawrence Roberts
Tyler Wilson Sexton
Douglas B Shepherd
Thomas Jay Splittstoesser

Bachelor of Science in Geology
Bachelor of Science in Mechanical Engineering
Alexandra Lynne Tateosian - Magna Cum Laude
Benjamin James Tauchen - Magna Cum Laude
Corey M Thiel
Mark A Torres
Derek Ross VanDommelen
Long Vue
Jordan Lee Waggener
Zhen Wang - Cum Laude
Steven J Wenzel
Da Zheng

Bachelor of Science in Materials Science and Engineering
Christopher L. Heiting
Gregory Thomas Holl
Christopher Jon Shaw

Bachelor of Science in Applied Ecology & Environmental Sciences
John Rourke Bennett
Melissa Margaret Bergstrom
Ashley Elyce Dennis

Bachelor of Science in Forestry
Cameron David Anderson
Ken Bassett - Cum Laude
Joel Andrew Castle - Magna Cum Laude
Matthew Thomas Custer
Benjamin Peter Hunter
Jordan Joseph Janowiak
Andrew Clifford Krugh
John William Littlefield
Alexander Joshua Perram
Joseph Andrew Pilkington - Magna Cum Laude
Stephen Rummel-Chadderdon
Beth Spedowski
James Kunz Steffel
Taylor Ryan Ziolkowski

Bachelor of Science in Wildlife Ecology and Management
Kristin Marie Brusso
David Kyle Cargo
Coleen Mary Fruin
Kiri Ann Kennedy
Chad T Prinz
Colby Joseph Seaberg
Tyler Steven Walters - Cum Laude

Bachelor of Science in Anthropology
Colleen Elizabeth Linn
Brendan Charles Walters - Cum Laude

Bachelor of Science in Biological Sciences
Luke Joseph Cayemberg - Magna Cum Laude
Rianne Marie Chittenden
Danielle J Costanza
Kaile Alexis-Ellen Cota
Rachelle Noel DeBenedetti - Summa Cum Laude
Kelley Marie Littlefield - Magna Cum Laude
Ted James Yiltalo

Bachelor of Science in Chemistry
Thomas Richard Augustyn
Aaron Anthony Chartier - Summa Cum Laude
Courtney Leigh Jurek
Heather Renee' Schemp
Marshal Charles Vortriede
Bachelor of Science in Computer Science
John Lloyd Bork
Jordon J Dornbos - Cum Laude
Jason Albion Elston
Charles Robert G oreckle
Neal Rene Johnson
Christopher J Leer
Behnam Abbas Lirouhi - Summa Cum Laude
Maegan Marie McNeil
Ethan Mitchel Olson - Cum Laude
Joseph Samuel Rice - Magna Cum Laude
James William Webber
Connor Gabriel Wlodarczak

Bachelor of Science in Exercise Science
Leala Marie Vera Baker - Cum Laude
David Paul Rosen - Cum Laude
Johanna M Villa
Caitlin Marie Wilkins

Bachelor of Science in Theatre and Entertainment Technology
Kay Marie Larson - Cum Laude
Joshua A Maiville

Bachelor of Science in Mathematics
Erik Eugene Carpenter
Sarah E Gilreath - Summa Cum Laude
Chelsea Ann Grindatti
Tyler Duke Schenk

Bachelor of Science in Biochemistry and Molecular Biology
Pedro Rodriguez

Bachelor of Science in Medical Laboratory Science
Misty R Brouillette - Cum Laude
Carine Netcha Tokam - Cum Laude

Bachelor of Science in Psychology
Jayde Marissa Croschere
Chase Christian LaFave
Faryn Michael Yovich

Bachelor of Science in Software Engineering
Wesley Edward Jacobson

Bachelor of Science in Sports and Fitness Management
Krista Marie Cone
Robert Allan Fraker
Abbie Sue Laajala
Michael Ryan Miller
Ronnie Arthur Wagner

Bachelor of Science in Social Sciences
Duane John Himmel
Allyssa Ardella Kirschner - Cum Laude
Noah D Koskiniemi

Bachelor of Science in Scientific and Technical Communication
Britta Anne Pearson

Bachelor of Science in Construction Management
Charles Curtis Leffingwell
Adam Joseph Roberts
Tyler Lee Anderson

Bachelor of Science in Computer Network & System Admin
Gregory George Booth - Summa Cum Laude
Riggs Elliott Clough
Daniel Joseph Larson - Cum Laude
Timothy A Van Wagner
Zachary D VanDuyn
Scott Edward Wambold

Bachelor of Science in Electrical Engineering Technology
Jehad Mohammed A Alabbad - Magna Cum Laude
Kurt D Kalenauskas - Magna Cum Laude
Micah Joseph Kuiper
Andrew Frederick Lutze
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<td>Michael James North</td>
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<td>Kyle R Cooper</td>
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<td>Chase W Peterson - Cum Laude</td>
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<td>Jason Gilbert Ulrich</td>
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<td>Master of Business Admin. in Business Admin.</td>
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<td>Meng-Han Shih</td>
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Master of Science in Environmental Engineering
Yawei Wei
Colin Glenn McCorkle
Caitlin O’Connell

Master of Science in Geology
Brianna Rene Hetland
Elena Russo
Justin Bruce Wargelin

Master of Science in Mechanical Engineering
Chandrika Sitaram Abhang
Sai Saagar Adimulam
Aditya Aluri
Abhishek Bhavalkar
Anuj Bista
Steven Phillip Carter
Anshaj Chadha
Jayant Sanjay Chalke
Sagar Vinod Chavan
Han Cheng
Xuebo Cui
Akash Garg
Tanay Pravin Ghanegaonkar
Brandon Alexander Jackson
Suyash Sanjay Kamble
Ratool Karmaker
Jamie Lea Kleinendorst
Deepak Kothari
Anza L Mitchell
Ahmed Abdul Moiz
Barzin Moridian
Dheeraj Kumar Ramnarayan Narang
Donald Arthur Norris
Gaurav Hemant Pandit
Madhura Nandan Paranjape
Jayadev Pasupathy
Tejas Dharsharthbhai Patel
Mayuresh Sanjay Pathak
Wei Quan
FNU Ramya Chandrasekaran
Hrishikesh Saigaonkar
Nikhil Anasaheb Sawant
Rahul Sharma
Sachin Pandurang Shinde
Anusha Reddy Singireddy
Vishal Shailesh Thakkar
Nikhil Wadhwa
Zhuyong Yang
Kunwen Yuan
Raviteja Reddy Zakkam
Benjamin Thomas Wittbrodt
Matthew John Wong
Yuzhe Zhang
Justina Aimee Silva
Timothy J Veverica

Master of Science in Materials Science and Engineering

Master of Science in Applied Ecology
Master of Science in Forest Ecology and Management
Vaula Liisa Maria Lukkarinen
David Jerome Kossak
Yonee Elease Bryant-Kuiphoff
Joshua David Einekes
Angela Lynn Mauritson
Jennifer Nicole Finta
Nicholas C Grabemeyer
Lorentyna Marie Harkness
Rebecca Agustin Joyce
Dawn M Kahler
Kari Anne Luckett
Heather Layne Simpson
Claudia Lynn Witt

Master of Science in Biological Sciences
Erin Leigh McKenney
James Christopher Olson
Robert Kevin Brown
D.M. Ashraf Habib
Huihui Lin
Rachel Lynn Rupnow
Laura Moeller

Master of Science in Chemistry
Master of Science in Mathematical Sciences

Master of Science in Rhetoric and Technical Communication
Master of Science in Industrial Archaeology
Master of Science in Integrated Geospatial Technology

Master of Science in Medical Informatics
Zilong Hu
Sanjay Rajiv Paonaskar
Antonio Velazquez Hernandez

Doctor of Philosophy in Civil Engineering
Tayloria Nicole Gail Adams
Maria Fernanda Gencoglu
Hwi Yong Lee
Jifei Liu
Alicia Jane Sawdon

Doctor of Philosophy in Chemical Engineering
Khrupa Saagar Vijayaragavan
Chungja Yang

Doctor of Philosophy in Electrical Engineering
Mohamed Elsayed Abdelhady Hanafy
Weston Harrison Thomas

Doctor of Philosophy in Materials Science and Engineering
Andrew Hamilton Baker
Edward A Laylila

Doctor of Philosophy in Engineering - Environmental Engineering
Yaoxian Huang
Taile Yvonne Leswifi
Yunzhu Zhao

Doctor of Philosophy in Forest Science
Brenda Gail Bergman
Jennifer Faith Riehl
Colin Wayne Gurganus
Jianqi Zheng

Doctor of Philosophy in Forest Molecular Genetics & Biotechnology

Doctor of Philosophy in Atmospheric Sciences

Doctor of Philosophy in Mechanical Engrg - Engrg Mechanics
Timothy Lee Jenkins
Vaibhav Sahebrao Kale
Wei Luo
Edmond Joseph Meyer
Seyedehdi Mortazavi Zanjani
Denise Marie Rizzo
Ehsan Taheri
Radheshyam Tewari
V. ACTION/DISCUSSION ITEMS

V-A. Employee Recognition

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

1.) Bahne Cornilsen - 37 years of service
2.) Andre Bonen - 36 years of service
Although Mr. Bonen was not able to attend the meeting, he wanted to express his appreciation to President Mroz and the Board of Control.

“President Mroz and distinguished Board Members of MTU. I really appreciate this recognition, but it is I who should be thanking all of you leaders, in providing me with an education, degree, and the opportunity to be employed at this great university. This wonderful experience has provided a very comfortable life for my dear "late wife" Joyce, my 2 sons Chris and Nick, my daughter Lilly (4th year student here), and myself.

I know I could not have experienced a better place to work anywhere, and it was with great honor to have served you and all the staff, and especially our students.

God bless all of you and God bless Mich. Tech.”

Sincerely,

Andre Bonen
V-B. Approval for the Purchase of a Transmission Electron Microscope

Michigan Tech investigators Drs. Reza Shahbazian-Yassar, Tolou Shokuhfar, Yoke Yap, Stephen Hackney, and Claudio Mazzoleni received a Major Research Instrumentation award from the National Science Foundation (NSF) entitled: "MRI: Acquisition of a High Resolution Transmission Electron Microscope for In Situ Microscopy Research and Education."

The investigators will use the NSF funds to acquire a high resolution transmission electron microscope which will be housed in the Applied Chemical and Morphological Analysis Laboratory, along with an extensive array of electron microanalytical and x-ray instruments. This instrument will substantially enhance the interdisciplinary research and teaching efforts carried out by Michigan Tech faculty and students, and will substantially impact our ongoing research projects that are national and NSF priorities, such as, energy storage, nanomaterials synthesis, climate change, biomineralization, photovoltaics, graphene, and nanoelectronics. This instrument, in conjunction with our in-situ transmission electron microscope holder capabilities, will place Michigan Tech at the forefront of in-situ high-resolution electron microscopy in the Northern Midwest region.

The total cost of the project is $2,100,000. The National Science Foundation will fund $1,200,000 of the equipment’s purchase cost, and Michigan Tech will contribute $900,000 toward the acquisition and installation of the microscope. Michigan Tech’s portion of the project will be funded by the Department of Mechanical Engineering.

It was moved by P. Ollila, supported by R. Jacquet, and passed by voice vote without dissent, that the Board of Control approves the purchase and installation of a transmission electron microscope at a project cost not to exceed $2,100,000.

V-C. Revised Agreement with Portage Golf Course Corporation

The Portage Golf Course Corporation (not for profit) was formed in 2007 to accept and hold property for the best interests of the University. To acquire the license to serve alcohol at the golf course clubhouse it was necessary to move the property out of the University’s name. The golf course property was deeded from the University to the new Corporation concurrent with the University getting a long term (50 years and renewable for an additional 50 years) lease agreement with the Corporation. Under the lease the University pays the Corporation $100 per year and the University has the exclusive right to use, occupy and control the property as well as to retain all revenues from the operation of it. Under the University’s deed to the Corporation and the lease the University also has the exclusive right to buy the property back at a nominal price ($1,000 during the first 10 years and increasing by $1,000 every 10 years to $5,000 over the 50 year lease period, and further increasing to $10,000 if renewed for the full 100 years).

In 2010, the University entered into an agreement with Theta Tau for a transfer of university property to the fraternity, accompanied by an option to purchase the Theta Tau property which was exercised, and ownership of the property transferred in June 2014. The University intends to further research several development options for the property.
Recognizing the adjacency of the former Theta Tau property to the Portage Lake Golf Course, and that a similar ownership and management approach would be simple and efficient for the University while development options are considered, it is recommended that the Board of Control allow for the ownership of the property to be transferred to the Portage Golf Course Corporation and the current 2007 lease to be amended to reflect the addition of the former Theta Tau parcel under substantially the same terms as the 2007 lease. The University will retain exclusive use, control and repurchase rights to this parcel as it did the golf course parcel.

It was moved by T. Baldini, supported by R. Jacquart, and passed by voice vote without dissent, that the Board of Control approves execution by the President, Vice President for Administration, Secretary or Treasurer of a deed transferring the land and buildings acquired in June 2014, adjacent to the Portage Lake Golf Course, to the Portage Golf Course Corporation concurrent with receipt and execution of a lease amendment for the property from the Portage Golf Course Corporation to Michigan Technological University in a form to be approved by any of the above University officers.

V-D. Exclusion Resolution for the Department of Defense

In 2008 the Board of Control amended policy 12.8. Security Clearance-Department of Defense by establishing an Executive Committee. On March 5, 2009, the Board approved an Exclusion Resolution for the Department of Defense that excludes Board of Control member’s access to classified information unless they are a member of the Executive Committee. The Board appointees to the Executive Committee are Tom Baldini and Paul Ollila. The Administration is requesting that the Exclusion Resolution be revised to reflect the current Board appointments.

It was moved by T. Baldini, supported by B. Ryan, and passed by voice vote without dissent, that the Board of Control adopts the Exclusion Resolution as presented herein.

EXCLUSION RESOLUTION

WHEREAS, current Department of Defense Regulations contain a provision making it mandatory that the Secretary of the Board, Senior Management Official and Facility Security Officer meet the personnel clearance requirements established for a contractor facility security clearance; and

WHEREAS, said Department of Defense Regulations permit the exclusion from the personnel clearance requirements of certain members of the Board of Control and other officers, provided that this action is recorded in the corporate minutes.

NOW THEREFORE BE IT DECLARED that the Secretary of the Board of Control, President of the University, and Facility Security Officer at the present time do possess, or will be processed for, the required security clearance; and
BE IT RESOLVED that in the future, when any individual enters upon any duties as Secretary of the Board of Control, President of the University and Facility Security Officer, such individual shall immediately make application for the required security clearance; and

BE IT RESOLVED AND DIRECTED that the following members of the Board of Control shall not require, shall not have, and can be effectively excluded from access to all CLASSIFIED information in the possession of the corporation and shall not affect adversely corporate policies or practices in the performance of classified contracts for the Department of Defense or the government contracting activities (User Agencies) of the National Industrial Security Program.

<table>
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<tr>
<td>Linda D. Kennedy</td>
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<td>Brenda R. Ryan</td>
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<td>Robert J. Jacquart</td>
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V-E. 11.9. Policy Regarding Capital Additions

It was moved by T. Woychowski, supported by P. Ollila, and passed by voice vote without dissent, that the Board amends policy 11.9. Policy Regarding Capital Additions as presented herein.

The amended policy shall read as follows:

11.9 Policy Regarding Capital Additions

Approval by the Treasurer is required for capital additions from $50,000 to $250,000. Approval by the President is required for capital additions from $250,000 to $3,000,000. Board of Control approval is required for all capital additions in excess of $3,000,000.

All capital additions for which a project-specific state appropriation has been made must, in addition to Board of Control approval if above required, be approved as required by the applicable legislation and the appropriate legislative committee or subcommittee, if any. Capital additions include but are not limited to maintenance, remodeling, additions, land acquisition, utility, landscaping, equipment, telecommunications, roads and parking.


V-F. 13.2.4. Second Bachelor’s Degree

This item was deleted from the agenda.
VI. REPORTS
   A. University Senate Report – Dr. Craig Waddell, President
   B. Undergraduate Student Government Report – Mr. Andrey Merzlyakov, President
   C. 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
   G. Disposal of Surplus Property

VIII. OTHER BUSINESS

   There was no other business at this time.

   Mr. Woychowski, along with the Board, expressed concern about the findings from the Food Insecurities Task Force, which both the USG and the GSG addressed in their reports. The Board is supportive of the group’s efforts in identifying ways to help alleviate the hardships that many students are facing with respect to food.

   Dr. Tahtinen commented that the local food bank is having difficulties keeping financially with the requests for food. Mr. Woychowski pledged $1,000 from the Woychowski Foundation to the local food bank, and asked that others do what they can to help.

IX. PUBLIC COMMENTS

   There were no comments at this time.

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

   It was moved by T. Woychowski, supported by R. Jacquart, 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  Johnson - Yes
Kennedy - Yes  Ryan - Yes

The motion passed.

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

President Contract

It was moved by T. Baldini, supported by R. Jacquart, and passed by voice vote without dissent, that the Board of Control authorizes the Board Chair and Vice Chair to finalize the terms of this contract, and execute on behalf of the Board, the President’s contract.

XI. ADJOURNMENT

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

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Secretary of the Board of Control

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Chair, Board of Control