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

Meeting of
October 3, 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 October 3, 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 3rd day of October 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
    S. J. Hicks
    R. J. Jacquart
    T. J. Woychowski
    G. D. Mroz, ex officio

The following members were absent:

    L. D. Kennedy

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; George Butvilas, Chair of the Michigan Tech Fund, 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 the agenda be amended to replaces pages 3-6 with pages 3-5 for item IV-B. Degrees in Course; to delete item IV-E. 2015 Meeting Dates, and to add two appointments to item V-B. Emeritus Rank.

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 October 3, 2014, as distributed to the Board, be approved as amended.

II. OPENING REMARKS

Chair’s Comments

I want to welcome everyone to our Fall Board of Control meeting. This is always such an exciting time as students, faculty and staff begin another academic year of stimulating learning and cutting edge research and discovery.

Before I begin my remarks, I wanted to announce some changes to the Leadership Committee and reaffirm the members of the Academic Affairs and Audit & Finance Committees. The Leadership Committee will be comprised of Tom Baldini (Chair), Bob Jacquart, Linda Kennedy and Terry Woychowski. The members of the Academic Affairs Committee are Terry Woychowski (Chair), Lenora Ashford, Linda Kennedy and Paul Ollila, and the Audit & Finance Committee is chaired by Tom Baldini, with Steve Hicks, Bob Jacquart as myself as members.

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

• Dr. Jackie Huntoon, Associate Provost and Dean of the Graduate School, has been voted chair-elect of the Graduate Record Exam Board. She will take office in October.

• Associate Professor Shiyan Hu from Electrical and Computer Engineering, has been invited to attend the National Academy of Engineering’s European Union-United States Frontiers of Engineering Symposium. He is among only 62 researchers from the European Union and the United States to receive an invitation to the symposium.

• Dr. Alex Mayer has been appointed as the Charles and Patricia Nelson Presidential Professor. Dr. Mayer, who holds a joint appointment in the Departments of Civil and Environmental Engineering and Geological and Mining Engineering and Sciences, is recognized for his outstanding efforts to bring water-related research, education and outreach to the forefront at Michigan Tech.

• Associate Professor Charles Wallace in Computer Science has been chosen as a Fulbright Alumni Ambassador. Fulbright Alumni Ambassadors are selected competitively for two-year terms.

• Dr. Les Cook, Vice President for Student Affairs and Advancement, has been named to a national commission to study prevention of fraternity hazing, and
• Dr. Jean-Celeste Kampe, Professor of Engineering Fundamentals, has been selected to participate in a National Academy of Engineering Frontiers of Engineering Education symposium.

As our strategic plan articulates several goals with respect to being recognized for our ability to inspire students and advance knowledge, Michigan Tech has received several recent rankings or ratings which include:
• U.S. News & World Report “Best Colleges” ranked Michigan Tech’s undergraduate programs in all disciplines at 56th in the nation among public universities, and the undergraduate engineering programs ranked 73rd.
• Michigan Tech was also named an “A-Plus School for B Students” and “Best Colleges for Veterans” in the U.S. News rankings as well. The A-Plus School for B Students category lists top-ranked universities where promising students with less than the highest grades and test scores can be admitted and thrive. Best Colleges for Veterans are nationally ranked schools that are members of the Servicemembers Opportunity Colleges Consortium and charge in-state tuition to out-of-state veterans.
• For the third year in a row, Michigan Tech has received the Higher Education Excellence in Diversity award from INSIGHT into Diversity magazine. This award recognizes U.S. colleges and universities that demonstrate an outstanding commitment to diversity.
• Money magazine has ranked Michigan Technological University second highest in the state, based on graduation rates, degree costs and return on investment. Michigan Tech also ranked 33rd in the nation among public universities.
• The latest payscale.com survey of starting, median and top salaries for university graduates ranked Michigan Tech third in the nation among public research universities for average starting salary of graduates. The results placed Michigan Tech 13th for return on investment among state schools nationwide, with a typical starting salary of $61,000. The financial analysis website also ranked Michigan Tech graduates 19th in the nation for mid-career salaries.

Contributing to the goal of world-class research, Reza Shahbazian, Associate Professor and Tolou Shokuhfar, Assistant Professor in Mechanical Engineering-Engineering Mechanics, Yoke Khin Yap, Professor and Claudio Mazzoleni, Associate Professor in Physics, and Stephen Hackney, Professor in Materials Science & Engineering, received 1.2 million dollars from the National Science Foundation for a project entitled, MRI: Acquisition of a High Resolution Transmission Electron Microscope for In Situ Microscopy Research and Education.

As you know, we have developed a set of metrics and five year targets to help guide us in monitoring our progress with the strategic plan. I would like to take a few moments and highlight some of the key metrics, many of which will be addressed in further detail during the meeting through the various reports.

• The general fund and current fund ended the fiscal year on a positive note, and our unrestricted current fund balances increased during the year by 3.8 million dollars, up from 10.6 million to 14.4 million.
• Undergraduate and graduate enrollment is up this fall for a total of 7,100 students, up from last year and the second highest since 1983.
• Female enrollment in the College of Engineering is 1,005, an all-time high at 22%.
• The average ACT score is at an all-time high at 27, up from 26.7 last year, and retention is 85%, this highest it has been since 1993.
• We have 23 new tenure-track faculty, 10 of whom are female or 43%, and 11 new lecturers, senior lecturer & professors of practice, 4 of whom are female or 36%.
• Housing and Residential Life is overflowing with 173 students over capacity in the residence halls, and the apartments are at 100% occupancy.

As you can see, these metrics illustrate the fact that we are making progress and moving in the right direction with our strategic plan and vision. They also reflect the great job that everyone is doing to help achieve our goals.

Before turning it over to President Mroz, I would like to congratulate all of those involved in the Parade of Nations, as I understand it was a great success. This is a great way to bring the students and community together to share, celebrate and experience the many different cultures that come together to make Michigan Tech such a great place.

President’s Comments

We have had an incredible launch of this academic year. While some in the nation are still debating the value of higher education, we have had corporate recruiters on campus every day since the second day of class. I guess to give time for students to get moved in, class schedules nailed down, and resumes to complete. This was punctuated by the record smashing career fair that you will hear about later and you will hear about advances in enrollment, academics and research.

Beyond that, we hosted over 1,100 people for Open House, the annual meeting of the Presidential Council of Alumnae, numerous Department Advisory Boards along with those for the College of Engineering, and School of Business Advisory Boards and Homecoming, bringing perhaps a few thousand alums back to the area.

A lot has also happened because of philanthropic investment in the campus as we continue to build our campus culture of philanthropy.

This week we dedicated the DTE Career Services Learning Center. This is a place where students can research career paths and find coaches to help them. We dedicated the newly renovated and equipped Nucor Industrial Control and Automation Lab in the Electrical Energy Resources Building bringing state of the art equipment for teaching Programmable Logic Control concepts and Human Machine Interface programming. Nucor is the largest manufacture of steel products in North America. This was the first project of the Alliance for Computing, Information and Automation, a facility serving both the Department of Electrical and Computer Engineering and the School of Technology.
Working back to the last board meeting we held a Ribbon Cutting ceremonies for:

- The John Edgar McAllister Welcome Center and home for Admissions supported by the McAllister Trust, with a portion supported by the Edwin and Grace Davis Trust. This will soon be putting a wow in a student’s first campus visit.
- The Phyllis and John Seaman garden at the A.E. Seaman Mineral Museum, the mineral museum of the State of Michigan.
- The new Doctor of Physical Therapy Program Facilities on campus, which is a joint venture of Michigan Tech and Central Michigan University. The first expansion of DPT in the State in 26 years. The facility renovation was supported by gifts from four hospitals (War Memorial, Portage Health, Aspirus Keweenaw, and Dickenson Memorial), the U.P. Healthcare Network, and the Pat Nelson Fund.

We will soon be dedicating Huskies Plaza, a project made possible through donations from the Lorenzetti Family, the Alumni Association, and nearly 700 alumni and friends. Including a guy we had thought passed some time ago by the name of Stormy Kromer, but the check was good.

Just a few weeks ago we received an additional half million dollar gift from John and Ruanne Opie to complete the additional phases of the Information Learning Commons in the Opie and VanPelt Libraries. These phases of the project will create and equip more collaboration and teamwork spaces. Part of the gift will also ensure that future of Michigan Tech hockey.

We are grateful to these donors, but also to a couple of Board members who have hit a new milestone in their lifetime philanthropic investments to Michigan Tech. Chair Fream and her family, and Chair of the Academic Affairs Committee, Terry Woychowski and his family. Welcome to the Michigan Tech Founders Society. Your example is important, not only to those on campus, but the thousands we bring back to campus engaging our alumni and friends. They notice your example! They follow it!

Thanks for your support of Michigan Tech students, and thanks to all across campus who have worked no only to do what we are best known for in academics and research, but also for your efforts to welcome and personally engage campus visitors that carry the message and reputation of Michigan Tech world-wide.

III. COMMITTEE REPORTS

Academic Affairs Committee Report

Mr. Woychowski presented the follow report to the Board.
Academic Affairs Committee Report

Terry Woychowski
October 3, 2014

1st Birthday

Action Items

- Emeritus Rank
  - Dr. George Robinson
  - Dr. Carl Anderson
  - Dr. Chris Passerello
- Honorary Degree
  - Dale Elliott
  - Dr. Susan Skochelak
Action Items

- Five-Year Capital Outlay Plan and 2016 Capital Project Request
  - Health Sciences & Medical Engineering Building
  - Integrated Student Maker Space
  - Net-Positive Exergy Microgrid Research Building

Seven Strategic Questions for AAC

1. Are the University’s educational programs consistent with its mission?

3. Does the University’s overall budget reflect and support the academic priorities?

4. Are faculty personnel policies aligned and supportive of the strategic plan and its goals?

5. Are enrollment policies consistent with and supportive of the academic strategic plan?

6. Is the University on track to achieve the “Quality of Teaching” and “Quality of Learning” goals, and are the targets appropriate to support the achievement of the strategic plan?

7. How must information technology be applied to achieve the strategic plan?

Discussion Items

- Undergraduate Enrollment
- Graduate Enrollment
- Align University Resources to Achieve or Surpass the Educational Quality - Dashboard Measures
- Academic Plan – Strategic Plan
- Portrait Implications for the Academic Plan
Provost Report

Provost Max Seel provided the Board with the following report.

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**AAC Strategic Question Nr. 2:**

*Are the University’s strategic plan and academic plan congruent?*

Board of Control Meeting

October 3, 2014
University Strategic Plan

Vision
Michigan Tech will grow as a premier technological research university of international stature, delivering education, new knowledge, and innovation for the needs of our world.

• GOAL 1: A world-class and diverse faculty, staff, and student population.

• GOAL 2: A distinctive and rigorous discovery-based learning experience grounded in science, engineering, technology, sustainability, the business of innovation, and an understanding of the social and cultural contexts of our contemporary world.

• GOAL 3: World-class research, scholarship, entrepreneurship, innovation, and creative work that promotes sustainable economic and social development in Michigan, the nation, and the world.

Portrait of Michigan Tech 2035

1. Internationally competitive faculty—40% in endowed positions

2. Student body of $750—$950 million scholarship endowment
   • 5750 Undergraduates
   • 1000 Masters
   • 1000 PhD students
   • 40% female and top 10 for engineering undergraduate degrees granted to women

3. Global literacy and communications skills in a variety of media as prominent part of education

4. Transformational education in a residential based technologically rich learning environment

5. Recognized nationally and internationally for research development and innovation

6. Sustainable financial model with less reliance on state funding

7. University culture is entrepreneurial with high quality services that are efficient, responsive and sustainable

8. Year-round Calendar

Undergraduate Enrollment “5750”

Based on the demographics for the midwest (declining high school graduates) and emerging engineering trends (more post-85 training and education for professional engineers)
Graduate Enrollment Growth

Vision 2035:
5750 undergraduates
2000 masters
1000 Ph.D.s

Currently 2014:
5700 undergraduates
783 MS
550 PhD

Linearized growth rates:
783 MS = (2000-783)/783 = 155% over 21 years = 7.4%
550 PhD = (1000-550)/550 = 82% over 21 years = 4.0%

2003-04:
5765 undergraduates
425 MS
375 PhD

(783 - 425)/425 = 84% over 10 years = 8.4%
(550 - 375)/375 = 47% over 10 years = 4.7%

Compounded annual growth rates to achieve 2035 numbers:

MS: 2000 = 783 (1+x)**21 x = 4.6%
PhD: 1000 = 550 (1+y)**21 y = 2.9%

Align University Resources to Achieve or Surpass the Educational Quality Dashboard Metrics

Tech Fund: Wahtera $200K (1st year retention 85%)
President’s Fund $350K (MS growth plan)

Reallocation:
$100K (1st year retention 85%)
$85K (MS growth plan)
$140K (start Pavlis Honors College)

New General Fund: $750K (New academic initiatives)

Strategic combination of Tech Fund dollars, reallocated and newly added general fund dollars
Academic Plan – Strategic Plan

Dean’s Retreat 2014
Main Theme: Focus for Next Year in the Context of Strategic Plan Update
What are next year’s top priorities?
from past retreats:
  increase retention and graduation rates;
  increase external support PhD students;
  increase MS substantially;
  establish and market accelerated master’s programs;
  differential tuition;
  shift of financial aid to support goals;
  online/blended learning – residential education;
  rise of interdisciplinary programs, collaborations.

Projects, taskforces -->
  William Jackson Center for Teaching and Learning
  Waino Wahtera Center
  Pavlis Honors College
  Alliance for Computing, Information, and Automation

New 2014 University-wide Initiatives

Biomaterials
  Ecosystem Dynamics – Extraction & Procurement – Processing & Manufacturing; Marketing, Sales & Distribution – Post-Consumer Processing & Recycling; Natural Capital – Human Capital

H-STEM: Health Science, Technology, Engineering, and Mathematics -
  “An integrative force across Michigan Tech, bringing together research and education efforts at the STEM nexus to advance human health”

Entrepreneurship across the University
  university-wide opportunities for students; MTESC, Innovation & Industry Engagement

Center for STEM Education Research
  $11 million in K12 related research in 2013-14; $5million DOW foundation
  IUSE (Improving Undergraduate STEM Education); NSF/DUE Proposal
  Writing Workshop

Michigan Tech 2035 – Portrait Implications for the Academic Plan

Back-of-the-Envelop Calculation – refined DRAFT of an earlier draft
Work in Progress

Goals
Necessary Investments
Assumptions
To make progress toward Goals
  major annual investments
  expected annual revenues increments
Steady State 2035
  total additional annual revenues anticipated
  total additional costs
  additional considerations: role of tuition, state appropriation, endowment, productivity gains

Barriers
Research and Sponsored Programs Report

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

Sponsored Program Summary
FY14

October 3, 2014

Dave Reed
Vice President for Research

Outline

• Sponsored Awards, FY14
• Research Expenditures, FY14
• Intellectual Property/Commercialization, FY14
• Corporate Sponsorship, FY14
• Great Lakes Research Center Update
Federal Research Funding, FY1976 – FY2015

FY14 Sponsored Program Awards

Sponsored Awards, FY14

<table>
<thead>
<tr>
<th>Sponsor Category</th>
<th>FY14</th>
<th>FY13</th>
<th>% +/-</th>
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<tbody>
<tr>
<td>Federal</td>
<td>$31,943,957</td>
<td>$35,144,358</td>
<td>- 9 %</td>
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<tr>
<td>Other Sponsored</td>
<td>$12,900,248</td>
<td>$7,846,484</td>
<td>+ 64 %</td>
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<td>Gifts</td>
<td>$3,324,927</td>
<td>$4,993,501</td>
<td>- 33 %</td>
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<tr>
<td>TOTAL</td>
<td>$48,162,964</td>
<td>$48,016,845</td>
<td>+ 0 %</td>
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Sponsored Awards, FY14

- Federal funding percentage has declined to 66% of awarded funds in FY14 as compared to 73% in FY13 and FY12, and 83% in FY11 and FY10.

- During FY14, 67% of the tenured and tenure track faculty were Principal Investigator or co-PI on a submitted proposal.

Research Expenditures, FY14

- Preliminary research expenditures declined by 3.1% from FY13, to a total of $68,525,862.
- This seems to indicate a lagged response to the declines in Sponsored Awards in previous years after ARRA and reflects the national decrease of about 12% in federal research spending. It also includes some reductions in Internal Expenditures due to reclassifications.
Research Expenditures, FY14

- On June 30, 2014, 56% of the tenured and tenure track faculty were Principal Investigator or co-PI on an active project.

Intellectual Property, FY14

<table>
<thead>
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<th>FY14</th>
<th>FY13</th>
<th>% +/-</th>
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<tr>
<td>Disclosures</td>
<td>45</td>
<td>51</td>
<td>-12%</td>
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<tr>
<td>NDAs</td>
<td>96</td>
<td>111</td>
<td>-14%</td>
</tr>
<tr>
<td>Patents Issued/Filed</td>
<td>23</td>
<td>27</td>
<td>-15%</td>
</tr>
<tr>
<td>License Agreements</td>
<td>15</td>
<td>26</td>
<td>-42%</td>
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<tr>
<td>Royalty/Option</td>
<td>$262,414</td>
<td>$193,985</td>
<td>+35%</td>
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Corporate Sponsorship FY14
Great Lakes Research Center Update

GLRC Update

- GLRC Building opened April, 2012
- Strategic Faculty Hiring Initiative
- GLRC formally recognized as a Michigan Tech Research Institute in early 2013
- Existing Center for Water and Society [CWS] affiliated with GLRC in 2013

GLRC Update

- In FY12, when the GLRC building was opened, CWS had $567,777 in sponsored awards.
- In FY13, GLRC had $1,200,618 in sponsored awards, including $491,772 from CWS.
- In FY14, GLRC had $3,602,909 in sponsored awards, including $1,759,994 from CWS.
GLRC Update

- At the end of FY14, GLRC and CWS had 30 active projects, with principal investigators from 6 different Michigan Tech units and co-investigators from 10 different Michigan Tech units.
- There were direct active projects from four federal agencies: NASA, NSF, Defense, and EPA.
- There were collaborative projects with University of Michigan, MIT, Penn State, Univ. New Hampshire, Ohio State, and Univ. Maryland.
- In addition, three companies and several local agencies were sponsoring projects.
GLRC Update

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

- Michigan Tech GLRC is now the ‘cold seas’ testing university in the Alliance for Coastal Technologies.

- “ACT partners include academic research institutions with coastal and ocean science and technology expertise, and that represent a broad range of environmental conditions for instrument testing. The Partner institutions help identify technologies to be evaluated and themes for workshops, and carry out these activities regionally. They are also responsible for conducting regional outreach activities and serve as information conduits to the broader community.”

- 2014 – Under ice dissolved oxygen sensor testing with 10 manufacturers.
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. It is the time of year where we reflect on last year, start to review what is happening in the current year and start the planning for next fiscal year.

The Committee reviewed the 2014 year end closing, which shows net income in the general fund of $878,000 and the current fund being positive by $3.9 million. The current funds cumulative fund balance is $17.1 million, which is the best it has been in over a decade.

We discussed the fiscal year 2014 financial statements and audit process with our external auditors, represented by Michelle Fowler, one of the principals with the Rehmann Group. The Committee reviewed the University and Tech Fund’s blended financial statements, and the FY14 blended Statement of Revenues, Expenses and Net Position which shows a positive increase in net position of $7.7 million.

Julie Seppala, Treasurer, will present an macro view of the fiscal year 2014 closing numbers, and our external auditor will than present their audit results after that presentation. We are very positive on the financial side.

The Committee reviewed an action item for this meeting, the Five Year Capital Outlay Plan and 2016 Capital Project Request. The Audit & Finance Committee supports the approval of this action, which is item V.D. It should be noted that just because we recognize it, it doesn’t mean that the State is going to give us the funding. It is a statement about where we want to allocate resources and future research for the University.

We also discussed some preliminary Fiscal Year 2015 enrollment and tuition revenue numbers.

Other items reviewed by the Audit and Finance Committee included:

- Historic Metrics and 5 Year Targets
- Capital Projects Update
- 2014 Annual Report on Continuous Improvement using Lean Principles
Continuous Improvement Using Lean Principles

Fiscal Year 2014 Report

I. Introduction

II. Key Improvement Events

A. Salary Adjustment Process

B. Lean Computer User Organization

C. SAP and System Process Improvements

D. Food Service Computer User Organization Using SHA

E. Lean Library and Courseware Map

F. Navigating Program Files Workshop

G. BI/IIS Workshop

H. Memorial Union Computer User Organization

I. Facilities Property Management and Courseware Map

J. Work and Food Service Process Mapping

K. Staff

L. Student

M. Holiday

N. Department

O. Retail

P. Residential

Q. Graduate

R. Draft

III. Results

IV. Conclusion

V. Appendix

VI. References
Treasurer’s Report

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

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Financial Report
Board of Control Meeting
Friday, October 3, 2014

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Balance Sheet
Condensed Statement of Net Position
as of June 30, 2014
(unaudited – in thousands)

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<tr>
<th></th>
<th>University</th>
<th>Tech Fund</th>
<th>Total</th>
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<tbody>
<tr>
<td><strong>ASSETS</strong></td>
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<td>Current Assets</td>
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<tr>
<td>Noncurrent Assets</td>
<td></td>
<td></td>
<td></td>
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<td>Capital Assets, net</td>
<td>320,985</td>
<td>246,085</td>
<td>567,070</td>
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<td>Other Noncurrent Assets</td>
<td>37,923</td>
<td>137,923</td>
<td>175,846</td>
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<tr>
<td><strong>TOTAL ASSETS</strong></td>
<td>$358,908</td>
<td>$284,008</td>
<td>$642,916</td>
</tr>
<tr>
<td><strong>LIABILITIES</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Current Liabilities</td>
<td>26,537</td>
<td>766</td>
<td>27,303</td>
</tr>
<tr>
<td>Noncurrent Liabilities</td>
<td>80,530</td>
<td>240,000</td>
<td>320,530</td>
</tr>
<tr>
<td><strong>TOTAL LIABILITIES</strong></td>
<td>$107,067</td>
<td>$247,766</td>
<td>$354,833</td>
</tr>
<tr>
<td><strong>NET POSITION</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Investments in capital assets, net of related debt</td>
<td>164,800</td>
<td>-</td>
<td>164,800</td>
</tr>
<tr>
<td>Other net position, restricted and unrestricted</td>
<td>154,021</td>
<td>154,021</td>
<td>308,042</td>
</tr>
<tr>
<td><strong>TOTAL NET POSITION</strong></td>
<td>$293,021</td>
<td>$208,040</td>
<td>$501,061</td>
</tr>
<tr>
<td><strong>TOTAL NET POSITION</strong></td>
<td>$358,081</td>
<td>$284,008</td>
<td>$642,916</td>
</tr>
</tbody>
</table>
**Current Fund FY14**

(All figures in thousands)

<table>
<thead>
<tr>
<th>Original Projections</th>
<th>June Unaudited</th>
</tr>
</thead>
<tbody>
<tr>
<td>Revenue</td>
<td>$261,812</td>
</tr>
<tr>
<td>Expense</td>
<td>($261,088)</td>
</tr>
<tr>
<td>Net Income</td>
<td>$724</td>
</tr>
<tr>
<td>Current Fund Balance</td>
<td>$13,916</td>
</tr>
</tbody>
</table>

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

**Current Fund Balances**

(In thousands)

<table>
<thead>
<tr>
<th></th>
<th>Balance 06/30/12</th>
<th>Balance 06/30/13</th>
<th>Preliminary 06/30/14</th>
</tr>
</thead>
<tbody>
<tr>
<td>TOTAL CURRENT FUND</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BALEANCE</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LEGALLY RESTRICTED</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>FUNDS</td>
<td>($2,590)</td>
<td>($2,587)</td>
<td>($2,627)</td>
</tr>
<tr>
<td>UNRESTRICTED CURRENT FUND BALANCE</td>
<td>$8,096</td>
<td>$10,609</td>
<td>$14,494</td>
</tr>
</tbody>
</table>

**CASH FLOW**

Calendar Years 2013 & 2014 YTD
(dollars in millions)

$36.8MM
External Auditor’s Report

Ms. Michelle Fowler of Rehmann Robson, reported that the scope of the audit was not just looking at the financial statements of the university, which do include the Tech Fund as a blended component unit, but also looking at all of the federal awards programs. The results from both of those audits were very positive. The university did receive a clean opinion, as did the major federal awards programs, and that is an opinion on compliance. Those two major programs were student financial aid as well as the research and development cluster.

Ms. Fowler also communicated that there were no internal control matters that need to be communicated in writing, and also there were no findings for the federal awards audit programs. Also, there were not any recorded adjustments that they had for the audit.

Ms. Fowler agreed that the university is on solid financial ground. If you look at the net position of the university as well as the liquidity, it is definitely very solid.

Mr. Baldini pointed out that the Audit & Finance Committee did review the audit results extensively with Ms. Fowler during their meeting yesterday.

C. Leadership Committee

Ms. Fream reported that the Leadership Committee did meet several times since the last Board meeting. The Leadership Committee discussed performance compensation, and items relative to personnel planning.

IV. CONSENT AGENDA

It was moved by T. Woychowski, supported by T. Baldini, 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 T. Baldini, and passed by voice vote without dissent, that the minutes of the formal session of August 7, 2014, as distributed to the Board, be approved.

IV-B. Degrees in Course

It was moved by T. Woychowski, supported by T. Baldini, and passed by voice vote without dissent, that the Board of Control approves the awarding of the degrees as specified for Conferral Term 201405, to each of the candidates listed, and offer congratulations.
<table>
<thead>
<tr>
<th>Academic Degree</th>
<th>Names of Graduates</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bachelor of Arts in English</td>
<td>Jennifer Helene Pelto - Magna Cum Laude</td>
</tr>
<tr>
<td>Bachelor of Arts in History</td>
<td>Brendan C Pelto - Cum Laude</td>
</tr>
<tr>
<td>Bachelor of Science in Business Administration</td>
<td>Eian James Richard</td>
</tr>
<tr>
<td>Bachelor of Science in Economics</td>
<td>Tyler Ross Pullano</td>
</tr>
<tr>
<td>Bachelor of Science in Engineering Management</td>
<td>Brian G Schmie</td>
</tr>
<tr>
<td>Bachelor of Science in Engineering</td>
<td>Madeleine Louise Habon</td>
</tr>
<tr>
<td>Bachelor of Science in Finance</td>
<td>Alan Richard L’Esperance</td>
</tr>
<tr>
<td>Bachelor of Science in Marketing</td>
<td>Austin Michael Kuttruff</td>
</tr>
<tr>
<td>Bachelor of Science in Applied Geophysics</td>
<td>Natalia Lebedeva - Cum Laude</td>
</tr>
<tr>
<td>Bachelor of Science in Biomedical Engineering</td>
<td>Cole Foster Nichols</td>
</tr>
<tr>
<td>Bachelor of Science in Civil Engineering</td>
<td>Allison Kay Benyman</td>
</tr>
<tr>
<td>Bachelor of Science in Chemical Engineering</td>
<td>Ryan William Furme</td>
</tr>
<tr>
<td>Bachelor of Science in Computer Engineering</td>
<td>Yiyang Li</td>
</tr>
<tr>
<td>Bachelor of Science in Electrical Engineering</td>
<td>Britany Alexandra Blood</td>
</tr>
<tr>
<td>Bachelor of Science in Environmental Engineering</td>
<td>Andrew E Lund - Cum Laude</td>
</tr>
<tr>
<td>Bachelor of Science in Geological Engineering</td>
<td>Steven S Benzer</td>
</tr>
<tr>
<td>Bachelor of Science in Mechanical Engineering</td>
<td>J Andrew Gregory Cole</td>
</tr>
<tr>
<td>Bachelor of Science in Materials Science and Engineering</td>
<td>Thomas Alexander Briggs</td>
</tr>
<tr>
<td>Bachelor of Science in Applied Ecology and Environmental Sciences</td>
<td>Duane Anthony Burfield</td>
</tr>
<tr>
<td></td>
<td>Kyle Michael Chouinard</td>
</tr>
<tr>
<td></td>
<td>Collin James DePrekel</td>
</tr>
<tr>
<td></td>
<td>Jaey Bing - Summa Cum Laude</td>
</tr>
<tr>
<td></td>
<td>Jordanna Lee Kero - Magna Cum Laude</td>
</tr>
<tr>
<td></td>
<td>Dane Christian Mattila</td>
</tr>
<tr>
<td></td>
<td>Adam Kenneth Suokas</td>
</tr>
<tr>
<td></td>
<td>Thomas Edward Fadigan - Magna Cum Laude</td>
</tr>
<tr>
<td></td>
<td>Ryan M Moreau</td>
</tr>
<tr>
<td></td>
<td>Katherine E May</td>
</tr>
<tr>
<td></td>
<td>Daniel Joseph McKean</td>
</tr>
<tr>
<td></td>
<td>Chench Feng Cui</td>
</tr>
<tr>
<td></td>
<td>Clayton Cassidy Doyle</td>
</tr>
<tr>
<td></td>
<td>Stephen Thomas Knudstrup</td>
</tr>
<tr>
<td></td>
<td>Lingfeng Pu</td>
</tr>
<tr>
<td></td>
<td>James Michael Shamn</td>
</tr>
<tr>
<td></td>
<td>Yixiong Tang</td>
</tr>
<tr>
<td></td>
<td>William David Ashbaugh</td>
</tr>
<tr>
<td></td>
<td>Victoria Leveille</td>
</tr>
<tr>
<td></td>
<td>Charlie Isaac Breihaupt</td>
</tr>
<tr>
<td></td>
<td>Austin Mitchell Fisher</td>
</tr>
<tr>
<td></td>
<td>Audrey Lynne Hutton - Summa Cum Laude</td>
</tr>
<tr>
<td></td>
<td>John Adrian Groen</td>
</tr>
<tr>
<td></td>
<td>Andrew William Janczy</td>
</tr>
<tr>
<td></td>
<td>Colin Scott Lay</td>
</tr>
<tr>
<td></td>
<td>Timothy John McEneath</td>
</tr>
<tr>
<td></td>
<td>Corey Michael McKenzie</td>
</tr>
<tr>
<td></td>
<td>William Carl Melcher</td>
</tr>
<tr>
<td></td>
<td>Fanxiong Meng - Cum Laude</td>
</tr>
<tr>
<td></td>
<td>Jordan Robert Meske</td>
</tr>
<tr>
<td></td>
<td>Zhehao Ren</td>
</tr>
<tr>
<td></td>
<td>Sondre Kaneliusse Sandvik</td>
</tr>
<tr>
<td></td>
<td>Ng Hia Gia Truong</td>
</tr>
<tr>
<td></td>
<td>Reuben Paul Usimaki</td>
</tr>
<tr>
<td></td>
<td>Cyhee Alexis-Johnson Wagner</td>
</tr>
<tr>
<td></td>
<td>Te Yu</td>
</tr>
<tr>
<td></td>
<td>Alex Jordan McQuarter</td>
</tr>
<tr>
<td></td>
<td>Evan Marc Duton</td>
</tr>
<tr>
<td></td>
<td>Joshua M Mow</td>
</tr>
<tr>
<td></td>
<td>Eva Amelia Vrana</td>
</tr>
</tbody>
</table>
Bachelor of Science in Forestry
Bachelor of Science in Anthropology
Bachelor of Science in Bioinformatics
Bachelor of Science in Biological Sciences
Bachelor of Science in Computer Science

Bachelor of Science in Computer Systems Science
Bachelor of Science in Exercise Science

Bachelor of Science in Theatre and Entertainment Technology
Bachelor of Science in Mathematics

Bachelor of Science in Biochemistry and Molecular Biology
Bachelor of Science in Psychology

Bachelor of Science in Software Engineering

Bachelor of Science in Sports and Fitness Management
Bachelor of Science in Construction Management
Bachelor of Science in Computer Network and System Administration

Bachelor of Science in Electrical Engineering Technology
Bachelor of Science in Mechanical Engineering Technology

Master of Business Administration in Business Administration

Master of Engineering in Engineering
Master of Science in Applied Natural Resource Economics

Master of Science in Civil Engineering

Master of Science in Chemical Engineering
Master of Science in Computer Engineering

Eitan Joseph Bowen - Magna Cum Laude
Kimberly Janet Garthe
Andrew Paul Lamoureux
Amanda Lynn Miller
Michael Patrick Wenner
Kaib N. Elwort
Jonathan James Enderby
Kelly James Helkowski - Cum Laude
Michael Scott Williams
Neil Christopher Wenger
Taylor Marie Quarless
Marissa R. Yowetch - Cum Laude
Katy Marie Ellenich
Sarah Marie Hubbell - Cum Laude
Taris Alexander Sotiri Miller
Lindsey Leigh Van Rroy
Amanda Ann Bybee
Meagan Elizabeth Eby
Victoria Marie Hanus
Amanda Lee Wetelainen
Kristopher Robert Gauthier
Samuel R. Gade
Michael Thomas Tuer - Magna Cum Laude
Jacob Tyler Johnstone
Charles Terence Rookie Fobbs
Khalid Mohd Al-Qahtani
Timothy Christopher Fox
Eric R. Gillet
Michael T. Mewin
Riley W. Shinlow

Abdullah Salem Al Atwah - Magna Cum Laude
Chester T. Little
Noam Michael Miles
Christopher Smart
Bryan Christopher Becker
Anthony Robert Giesey
Yu Gu
Benjamin Edward Hart
Yanzhi Huang
Christina Igorvna Juflak
Marc C. Kubas
Phillip Michael Milbrath
Sunhee Park
Tao Tao
Shaping Wen
Yu-Tsung Lee
Li Yang
Ting Guo
Fei Li
Yan Yu
Yasong Dang
Irfan Rasul
Brienna Elizabeth Rust
Xiao Sun
Xiaotong Han
Omella Nikunrunziza
Xin Hao
Siva Krishna Kakula
Jennifer Ann Winikus
Master of Science in Electrical Engineering
  Asif Al-Rasheed
  Theyab Rashed Alsenani
  Irfan Haider
  Zhe Huang
  Suhaib Khader Khan
  Ketan Rakesh Lorch
  Anthony J Pinar
  Lorenzo Gratton
  Geoffrey Aaron Lerner
  John Jeffery Welik
  Qiang Guo
  Fouad Ahmed
  Pankaj Sadgugar
  Rohit Shute
  Sorayot Chinkarjanarat
  Yash Rakesh Jain
  Pratik Mohan Kaslam
  Anuplumnar Raguhaheh Ketkale
  Akshay Suryakant Kolte
  Riten Jayesh Munshi
  Puneel Nandaraj
  MRU Nishil Shankar
  Henry John Schmidt
  Andrew Mark Vasiliauskas
  Shiran Wu
  Ben Wang
  Eduardo Jose Cabret
  Isaac Crouch
  Shuangang Zhang
  Zhe Lu
  Joshua Charles Stomberg
  Diego Domenzanz-Gonzalez
  Jezerca Hodaj
  Peter M. Soffest
  Xin Xin Woodward
  Utku Kaceleei
  Jonathan Quentin Askwig
  Kara Lee Pettersen
  Brandon Duhamel Pereles
  Ruijiang Song
  La Xin
  Kaitlyn Jean Bunker
  Fang Chen
  Nayerz Islam
  Evgeniy Kulakov
  Ram Kumar Deo
  Swapak Chakra
  Azhang Hamlekehan
  Ryan John Lemmens
  Erich John Petushek
  Aparupa Sengupta
  Liui Hu
  Hui Meen Nyew
  Marc N. Hershaw
  Chunhui Liu
  Kevin R Cassell
  Diane Janes Izkenan
  Daniel William Lawrence
  Stephen Charles Markve

Master of Science in Geology

Master of Science in Geophysics

Master of Science in Mechanical Engineering

Master of Science in Materials Science and Engineering
  Master of Science in Applied Science Education

Master of Science in Biological Sciences
  Master of Science in Computer Science

Master of Science in Mathematical Sciences

Master of Science in Physics
  Master of Science in Integrated Geospatial Technology
  Master of Science in Medical Informatics

Doctor of Philosophy in Biomedical Engineering
  Doctor of Philosophy in Civil Engineering
  Doctor of Philosophy in Chemical Engineering
  Doctor of Philosophy in Electrical Engineering

Doctor of Philosophy in Geological Engineering
  Doctor of Philosophy in Geology
  Doctor of Philosophy in Forest Science
  Doctor of Philosophy in Atmospheric Sciences
  Doctor of Philosophy in Mechanical Engineering - Engineering Mechanics

Doctor of Philosophy in Applied Cognitive Science and Human Factors
  Doctor of Philosophy in Biological Sciences
  Doctor of Philosophy in Computer Science

Doctor of Philosophy in Industrial Heritage and Archeology
  Doctor of Philosophy in Physics
  Doctor of Philosophy in Rhetoric and Technical Communication
IV-C. Gifts

It was moved by T. Woychowski, supported by T. Baldini, 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
Fundraising Productivity Report
July 1, 2014 through August 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>892,783</td>
<td>596,942</td>
<td>3,232,814</td>
</tr>
<tr>
<td>Realized Planned Gifts (Unanticipated - 25K and up)</td>
<td>252</td>
<td>43,925</td>
<td>202,266</td>
</tr>
<tr>
<td>Individuals - non-Major Gifts</td>
<td>198,417</td>
<td>157,160</td>
<td>1,858,044</td>
</tr>
<tr>
<td>Full Value New Planned Gift Commitments</td>
<td>2,372,865</td>
<td>3,383,985</td>
<td>11,950,828</td>
</tr>
<tr>
<td>Annual Fund</td>
<td>199,817</td>
<td>233,576</td>
<td>1,491,595</td>
</tr>
<tr>
<td>Corporate Sponsored Research</td>
<td>910,290</td>
<td>1,776,454</td>
<td>9,138,861</td>
</tr>
<tr>
<td>Corporations</td>
<td>180,794</td>
<td>308,307</td>
<td>2,013,404</td>
</tr>
<tr>
<td>Foundations &amp; Other Organizations</td>
<td>50,266</td>
<td>32,366</td>
<td>578,537</td>
</tr>
<tr>
<td>Gifts-in-Kind</td>
<td>79,226</td>
<td>3,905</td>
<td>366,960</td>
</tr>
</tbody>
</table>

Grand Total                           | 4,883,794      | 6,535,476      | 30,924,581 |

* 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-D. Resignations, Retirements & Off Payroll

It was moved by T. Woychowski, supported by T. Baldini, 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  
(July 06, 2014 – August 30, 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>Liu, Xuan</td>
<td>Biomedical Engineering</td>
<td>Assistant Professor</td>
<td>08/10/13</td>
<td>08/01/14</td>
</tr>
<tr>
<td>Lindker, Jeffrey</td>
<td>Civil &amp; Environmental Eng.</td>
<td>Assistant Professor</td>
<td>08/20/12</td>
<td>08/16/14</td>
</tr>
<tr>
<td>Wang, Chao</td>
<td>Computer Science</td>
<td>Assistant Professor</td>
<td>08/09/09</td>
<td>08/10/14</td>
</tr>
<tr>
<td>Norman, Emma</td>
<td>Social Sciences</td>
<td>Assistant Professor</td>
<td>08/20/12</td>
<td>08/17/14</td>
</tr>
<tr>
<td>Cook, Ryan</td>
<td>Social Sciences</td>
<td>Lecturer</td>
<td>08/19/13</td>
<td>08/17/14</td>
</tr>
<tr>
<td>Turpening, Roger</td>
<td>Geo &amp; Mining Eng &amp; Sci</td>
<td>Research Professor</td>
<td>07/01/00</td>
<td>08/17/14</td>
</tr>
</tbody>
</table>

## RETIRED

<table>
<thead>
<tr>
<th>Department</th>
<th>Title</th>
<th>Hire Date</th>
<th>Term Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plichta, Mari</td>
<td>Materials Sci &amp; Engineering</td>
<td>Professor</td>
<td>08/27/84</td>
</tr>
<tr>
<td>Li, Wenzhen</td>
<td>Chemical Engineering</td>
<td>Assistant Professor</td>
<td>08/10/08</td>
</tr>
<tr>
<td>Passerello, Chris</td>
<td>Mech. Eng-Eng Mech.</td>
<td>Professor</td>
<td>07/13/78</td>
</tr>
<tr>
<td>Boscchetto-Sandoval, Sandra</td>
<td>Humanities</td>
<td>Associate Professor</td>
<td>08/01/81</td>
</tr>
<tr>
<td>Kolka, Robert</td>
<td>Mathematical Sciences</td>
<td>Associate Professor</td>
<td>08/27/84</td>
</tr>
<tr>
<td>Sandovol, Cro</td>
<td>Humanities</td>
<td>Associate Professor</td>
<td>08/05/91</td>
</tr>
</tbody>
</table>

## OFF PAYROLL

<table>
<thead>
<tr>
<th>Department</th>
<th>Title</th>
<th>Hire Date</th>
<th>Term Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adams, William</td>
<td>Humanities</td>
<td>Instructor</td>
<td>05/12/13</td>
</tr>
<tr>
<td>Kamischke, Eric</td>
<td>Mathematical Sciences</td>
<td>Instructor</td>
<td>08/15/11</td>
</tr>
<tr>
<td>Kane, Jessica</td>
<td>Visual &amp; Performing Arts</td>
<td>Instructor</td>
<td>08/19/13</td>
</tr>
<tr>
<td>Molzon, Raymond</td>
<td>Mathematical Sciences</td>
<td>Visiting Assistant Professor</td>
<td>08/30/13</td>
</tr>
<tr>
<td>Watrous, Lisa</td>
<td>Humanities</td>
<td>Instructor</td>
<td>08/24/08</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>Russell, Elizabeth</td>
<td>Van Pelt &amp; Opie Library</td>
<td>Archivist</td>
<td>09/28/09</td>
<td>07/12/14</td>
</tr>
<tr>
<td>Cowell, Cindy</td>
<td>Financial Aid Administration</td>
<td>Financial Aid Advisor</td>
<td>12/18/11</td>
<td>07/25/14</td>
</tr>
<tr>
<td>Brown, Gary</td>
<td>Rozza Ctr for Performing Arts</td>
<td>Production Manager</td>
<td>02/22/11</td>
<td>08/01/14</td>
</tr>
<tr>
<td>Bahnh, Christopher</td>
<td>Career Services</td>
<td>Acct. Director Exp. Learning</td>
<td>06/17/12</td>
<td>08/02/14</td>
</tr>
<tr>
<td>Lester, Jerome</td>
<td>Housing &amp; Residential Life</td>
<td>Residence Life Coordinator</td>
<td>07/01/13</td>
<td>08/04/14</td>
</tr>
<tr>
<td>Roberts, Kimberly</td>
<td>Housing &amp; Residential Life</td>
<td>Residence Life Coordinator</td>
<td>07/23/12</td>
<td>08/04/14</td>
</tr>
<tr>
<td>Wells, Rhonda</td>
<td>Ofc for Diversity &amp; Inclusion</td>
<td>Assistant Director</td>
<td>06/08/11</td>
<td>08/06/14</td>
</tr>
<tr>
<td>Wiriant, Belinda</td>
<td>Civil &amp; Environmental Eng.</td>
<td>Tech Writer/Bus Assoc.</td>
<td>05/14/12</td>
<td>08/08/14</td>
</tr>
</tbody>
</table>

<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>Heikkinen, James</td>
<td>Facilities Management</td>
<td>Director Engineering Services</td>
<td>03/12/09</td>
<td>08/01/14</td>
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<td>Belanger, Carol</td>
<td>Vice Pres. For Administration</td>
<td>Director Budget &amp; Finance</td>
<td>03/05/12</td>
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<td>Corigan, Edwin</td>
<td>Facilities Management</td>
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<td>08/26/09</td>
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<td>Moye, Lisa</td>
<td>Housing &amp; Residential Life</td>
<td>Coord. Housing Ops</td>
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<td>Munch, Anthony</td>
<td>Dining Services</td>
<td>Stores Clerk</td>
<td>08/31/09</td>
<td>07/19/14</td>
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<td>Parker, Ronald</td>
<td>Public Safety &amp; Police Srv.</td>
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<td>Ojal, Ruth</td>
<td>Sci Forest Res &amp; Envr. Sci</td>
<td>Office Assistant 5</td>
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<td>Matlock, Terri</td>
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<td>Inventory Operation Analyst</td>
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<td>Utren, Nichole</td>
<td>Financial Services &amp; Ops</td>
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<td>Rozza Ctr for Performing Arts</td>
<td>Office Assistant 3</td>
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<td>Bradford, Kimberly</td>
<td>Facilities Management</td>
<td>Custodian</td>
<td>08/10/13</td>
<td>08/04/14</td>
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IV-E. 2015 Meeting Dates

This item was deleted from the agenda.

V. ACTION/DISCUSSION ITEMS

V-A. Employee Recognition

It was moved by P. Ollila, 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.) Edwin Corrigan (36 years of service)
2.) Chris Passerelko (36 years of service)
3.) James Heikkinen (35 years of service)
V-B. Emeritus Rank

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

1.) Dr. George Robinson, Professor Emeritus, Department of Geological and Mining Engineering and Sciences
2.) Dr. Carl L. Anderson, Professor Emeritus, Department of Mechanical Engineering-Engineering Mechanics
3.) Dr. Chris Passerello, Professor Emeritus, Department of Mechanical Engineering-Engineering Mechanics
V-C. Honorary Degree

The Administration is recommending Mr. Dale F. Elliott and Dr. Susan E. Skochelak be awarded an Honorary Doctorate of Philosophy degree. Mr. Elliott holds a Master’s of Business Administration degree (Class of 1979) from Michigan Tech, and will be the December 2014 Commencement speaker. Dr. Skochelak holds a Bachelor’s of Science degree in Medical Technology (Class of 1975) and a Master’s Degree in Biological Sciences (Class of 1977) from Michigan Tech, and will be the May 2015 Commencement speaker.

Dale Elliott, founder, of FCM Advisory Group, has over thirty years of operating experience with small, mid-sized and large companies spanning a wide variety of disciplines and industries. FCM stands for “Full Circle Management” which has as its underpinning the belief that to be successful, an organization must be aligned across several key areas.

Prior to founding FCM, Dale served as president of American Standard’s global Bath and Kitchen business. American Standard is the world’s largest manufacturer of bath and kitchen products. He joined American Standard in 2006 after serving as chairman, president and chief executive officer of Snap-on Tools Corporation, a global leader in professional tools, diagnostics and equipment with $2.4 billion in annual sales and 11,500 employees. In his three-and-one-half years leading Snap-on Tools, Dale drove a strategic turnaround that eliminated $65 million in redundant operating expenses and improved headcount productivity by 34%. He also led an increase in new product sales of $722 million annually or 30% of total revenue.

Dale is a strong supporter of Michigan Tech and has served on the Michigan Tech Fund Board of Trustees and the School of Business and Economics Advisory Board, and currently serves on the President’s Advancement Council. He is a Life Trustee and a member of the Second Century Society.

It was moved by L. Ashford, supported by P. Ollila, and passed by voice vote without dissent, that the Board of Control approves the awarding of an Honorary Doctorate of Philosophy degree to Mr. Dale F. Elliott.

Susan Skochelak, MD, MPH, serves as the group vice president for Medical Education at the American Medical Association. The office of the group vice president includes the divisions of undergraduate, graduate and continuing professional education; the staff support for AMA Council on Medical Education and the AMA Section on Medical Schools; and the AMA Center to Transform Medical Education.

Prior to joining the AMA in 2009, Susan served as the senior associate dean for academic affairs at the University of Wisconsin School of Medicine and Public Health, where she was a tenured professor of family medicine. A nationally recognized authority in medical education, she pioneered new models for community-based and interdisciplinary medical education. Susan served as the director of the Wisconsin Area Health Education Center system and as a member of the Wisconsin Governor’s Rural Health Development Council. She initiated new programs in rural, urban and global health, and led the development of a new master of public health degree.
Susan graduated from the University of Michigan Medical School and trained in family and preventive medicine at the University of North Carolina-Chapel Hill. While at Chapel Hill, she completed a fellowship as a Robert Wood Johnson Clinical Scholar and obtained an MPH in epidemiology. Susan is actively involved in medical education research and has been the principal investigator for more than $18 million in grant awards from the National Institutes of Health, the U.S. Department of Health and Human Services and private foundations.

It was moved by L. Ashford, supported by P. Ollila, and passed by voice vote without dissent, that the Board of Control approves the awarding of an Honorary Doctorate of Philosophy degree to Dr. Susan E. Skochelak.

**V-D. Five-Year Capital Outlay Plan and 2016 Capital Project Request**

It was moved by T. Baldini, supported by L. Ashford, and passed by voice vote without dissent, that the Board of Control approves the Five-Year Capital Outlay Plan and 2016 Capital Project Request to be submitted to the State of Michigan.

<table>
<thead>
<tr>
<th>Project Name</th>
<th>Gross Sq. Ft. New</th>
<th>Gross Sq. Ft. Renovated</th>
<th>Total Project Cost (000’s)</th>
<th>State Funds (000’s)</th>
<th>Est. Const. Univ. Funds (000’s)</th>
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<td>Health Sciences and Medical Engineering Building</td>
<td>100,000</td>
<td>25,000</td>
<td>$52,000</td>
<td>$39,000</td>
<td>$13,000</td>
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<td>Integrated Student Maker Spaces</td>
<td>25,000</td>
<td>100,000</td>
<td>$25,000</td>
<td>$18,750</td>
<td>$6,250</td>
<td>2017 – 2019</td>
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<td>Net-Positive Exergy Microgrid Research Building</td>
<td>80,000</td>
<td></td>
<td>$30,000</td>
<td>$22,500</td>
<td>$7,500</td>
<td>2018 - 2020</td>
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**Capital Project Description**

**Health Sciences and Medical Engineering Building**

The construction of a new facility is proposed that will accommodate health-related science and engineering. The 125,000 square-foot facility of new space and renovation at an estimated cost of $52,000,000 will strategically support Michigan Tech’s investment in human health research. This building will bring together key faculty primarily from Biomedical Engineering, Kinesiology and Integrated Physiology, Chemistry, and other appropriate disciplines. Laboratories will be integrated where students at all levels can work together in a research-intensive environment in a safe facility constructed to modern standards. This will enable University health-related researchers and educators to work together in a synergistic engineering and science environment to train future practitioners and to develop the future of health treatments, practices, and devices.
Integrated Student Maker Spaces

The University proposes a set of integrated spaces for student hands-on experimentation and characterization, where they can work on independent teams, working closely with researchers and under strong supervision in a safe environment. The total project cost is estimated at $25,000,000, and will include both new construction and expansion or renovation of spaces for mid-level and advanced students (in Dillman Hall, M&M Building, Chemical Sciences Building, and Smith MEEM Building). The purpose is to encourage students to actively participate in hands-on design, construction, characterization, and testing of products and materials, and in studying and modifying the behavior of natural and built systems. There would be a facility for First-Year Engineering students (new construction and some renovation); facilities for mid-level undergraduates (mostly renovation and some expansion, providing for design, testing, characterization, and operations experience); and a facility for highly advanced undergraduates and early graduate students (providing a culminating experience). All engineering disciplines will be involved.

Net-Positive Exergy Microgrid Research Building

The Net-Positive Exergy Microgrid Research Building will be a facility (new construction) that is self-contained with an independent microgrid with electricity, fuel, water, and air flow inputs as well as heat, wastewater, and waste airflow outputs that produce more energy for the campus than the building itself consumes. Research in this new 80,000 square-foot, $30 million facility, will focus on combined architectural and environmentally sustainable design of intrinsically optimal buildings, grid-integration of renewable energy, and integration of energy storage systems; this will include dispatchable loads with intrinsic storage such as plug-in hybrid electric vehicles and water pumping. The researchers occupying this facility and/or conducting research in it will be from departments including Mechanical Engineering – Engineering Mechanics, Electrical and Computer Engineering, Civil and Environmental Engineering, Materials Science and Engineering, Computer Science, and Economics and Policy.

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

Mr. Woychowski reported that he met with the Health and Safety Task Force yesterday and he was very impressed with the group and the systems, processes, and policies that the group is responsible for developing and implementing across campus, and that they are doing a great job. Also, at the last meeting he noted some items across campus needing some maintenance, and he was pleased to report that those items have been corrected.

President Mroz pointed out in the Recent Media Coverage report there is a map that illustrates where the stories regarding Michigan Tech are hitting, and they cover every state except Wyoming.

VIII. OTHER BUSINESS

There was no other business at this time.

IX. PUBLIC COMMENTS

Dr. Craig Waddell, President of the University Senate finished his report from the Senate as he ran over the time allotted for reports.

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

It was moved by P. Ollila, supported by T. Baldini, 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:
   Hicks – Yes                Jacquart - Yes
   Ollila – Yes               Fream – Yes
   Baldini – Yes              Ashford - Yes
   Woychowski – Yes

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

**Presidential Contract**

Chair Fream reported that the Board reviewed modifications to President Mroz’s employment agreement in closed session.

It was moved by R. Jacquart, supported by L. Ashford, and passed by voice vote without dissent, that the Board of Control approves the modifications to President Mroz’s employment agreement.

**XI. ADJOURNMENT**

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

____________________________________
Secretary of the Board of Control

____________________________________
Chair, Board of Control