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

Meeting of
August 6, 2015
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MINUTES OF THE FORMAL SESSION OF THE BOARD OF TRUSTEES OF MICHIGAN TECHNOLOGICAL UNIVERSITY held pursuant to due call Ballroom B of the Memorial Union Building on the campus of Michigan Technological University in the City of Houghton, Michigan at nine o’clock on the morning of August 6, 2015.

The Board of Trustees of Michigan Technological University met in formal session at the University's campus at Michigan Technological University in the City of Houghton, State of Michigan, at 9:00 a.m., on the 6th day of August 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 Vice Chair, P. Ollila, and a quorum was declared present.

The following members of the Board of Trustees were present:

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:

J. A. Fream

Also present during part or all of the session were: Dale Tahtinen, Secretary of the Board; Julie Seppala, Treasurer; Jackie Huntoon, Provost and Vice President for Academic Affairs; David D. Reed, Vice President for Research; Ellen Horsch, Vice President for Administration; Les Cook, Vice President for Advancement and Student Affairs; 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 item V-A-1. Emeritus Rank be added to the agenda.

It was moved by W. Johnson, supported by R. Jacquart, and passed by voice vote without dissent, that the agenda of the formal session of August 6, 2015, as distributed to the Board, be approved as amended.

II. OPENING REMARKS

Chair’s Comments

I would like to welcome everyone to today’s Board of Control meeting and to Alumni Reunion. And we would also like to welcome Congressman Dan Benishek, who will be on campus today for the Veterans Assistance Fair which will be held from 11:00 a.m. to 1:00 p.m. in the Wood Gym.

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:

- Welcome to our new Provost, Dr. Jackie Huntoon. We had breakfast with Jackie this morning and her passion for education and Michigan Tech will be of great benefit in leading the academic charge of the university. We look forward to working with Jackie in her new role.

- Dr. Nina Mahmoudian, assistant professor in mechanical engineering-engineering mechanics, received the Young Investigator Program Award from the Office of Naval Research and a CAREER Award from the National Science Foundation for her work in underwater robotics focusing on the continuous operation of autonomous vehicles.

- Dr. Mike Mullins, professor in chemical engineering, has been awarded a Fulbright Distinguished Chair Award to spend the 2015-2016 academic year on sabbatical at Chalmers University of Technology in Gothenburg.
Sweden to conduct research on the use of biofuels in transportation.

- Dr. Amy Marcarelli, assistant professor in Biological Sciences received a CAREER Award from the National Science Foundation to study the nitrogen conversion balance in aquatic biology.

- Dr. Daisuke Minakata, assistant professor in civil and environmental engineering, has received the 2015 Ralph E. Powe Junior Faculty Enhancement Award in the discipline of engineering and applied science from the Oak Ridge Associated Universities for his work in developing innovative physical-chemical water treatment technologies and predictive tools using novel computational techniques.

- Michigan Tech has been recognized with a CASE (Council for Advancement and Support of Education) Silver Award for Excellence in News Writing, based upon stories submitted by current UMC (University Marketing and Communications) writers Jennifer Donovan and Kevin Hodur, and former writer Marcia Goodrich.

- Dr. Craig Friedrich has been elected Fellow of ASME. He is being recognized for his significant, lifetime engineering accomplishments. The Fellow grade is truly a distinction among mechanical engineering professionals.

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

- Michigan Tech’s Mechanical Engineering Senior Design team won first place in the Air Force Research Lab University Design Challenge by designing a cooling apparatus to wear in desert climates.

- Michigan Technological University’s Department of Mechanical Engineering-Engineering Mechanics is one of five mechanical engineering departments nationwide selected by the National Science Foundation (NSF) to participate in a new diversity training program. The others are Purdue, Oregon State, Texas Tech and the University of Oklahoma. The NSF program is called Transforming Engineering Culture to Advance Inclusion and Diversity, with the goal of diversifying mechanical engineering education, making it more inclusive of women and under-represented minorities.

- Michigan Technological University has been named one of America’s best small town colleges by BestColleges.com, a database of colleges and universities designed to help students and their families learn about their options for higher education.

**Achievements for Goal 3: World-class Research, Scholarship & Entrepreneurship and Creativity** include:

- Michigan Tech recently established the Institute of Computing and Cybersystems (ICC), a new research institute to promote research and learning experiences in the areas of mobile computing, cybersecurity, cyber physical systems, cyber human systems and computer systems. ICC is the research arm of the Alliance of Computing, Information and Automation.
- Dr. Adrienne Minerick, professor in chemical engineering with an adjunct appointment in biomedical engineering, has been named the College of Engineering’s first associate dean for research and innovation.

- Dr. Soner Onder, professor in computer science, has received a $560,000 research and development grant from the National Science Foundation focused on Combining Data and Instruction Level Parallelism through Demand Driven Execution of Imperative Programs. This is a four year project.

All of these achievements, and the many others that are too numerous to mention, couldn’t happen without the outstanding efforts of our faculty, staff and students.

I also wanted to update the Board on what Michigan Tech students are doing in the local community. This involvement includes working with Little Brothers Friends of the Elderly, walking dogs for the Copper Country Humane Society, volunteer helpers at the annual Canal Run, Relay for Life for Cancer, and other fundraisers such as Habitat for Humanity. Of course, each year students are active in Make a Difference Day. Each fall, on a Saturday, about 500 students work on volunteer projects in the community at about 40 different sites. In the years past they have helped maintain the community spaces by raking leaves, picking up trash, helping to make and stack wood for those unable to do so, and this week many of the students are assisting the Keweenaw Science and Engineering Festival. Students also work locally as student interns, and co-op at local SmartZone businesses in addition to other companies such as ThermoAnalytics, and GS Engineering. Our education students complete their student teaching in local schools, and across the Upper Peninsula. There are so many activities that students are doing, and this is just a small sample. I wanted to point out that they are not just students here, they are also participating in the community and it’s great, and they do a lot of good that may not be recognized. It is part of their growth experience and an education that is well rounded, and that is the type of student that we see coming out of Michigan Tech.

President’s Comments

Welcome Board members, and a special welcome to the many visitors to campus for this reunion weekend. We are going have a great time this weekend and it is beginning now!

It’s never a bad day to start a partnership, but this is a great day to start a partnership! Henry Ford once said, “Coming together is a beginning. Keeping together is progress. Working together is success.” I am thrilled to start this meeting with an announcement that Michigan Tech and the Portage Health Foundation have entered into a long-term partnership to improve health education, research, infrastructure, and economic growth in our community.

I’d like to thank some of the Portage Health Foundation Board members in attendance today for the time each has put into building a community foundation, right here in our backyard, that is a catalyst for healthy living. An effective change agent that brings together community partners, stakeholders, and contributors to make a lasting impact, and overall, modeling what it means to be a responsible steward.
With us today are:

Roger Helman – Vice Chair
Tim Baroni – Treasurer and Chair of the Finance/Investment Committee
Bernadette Yeoman - Secretary, Chair of the Fund Development/Granting Committee
Connie Greenleaf – Executive Assistant
Kevin Store, Executive Director

One of the things that is telling about Kevin’s leadership is his barometer for success. Kevin’s view of success goes far beyond who does or does not receive financial support from the Foundation. As you can imagine, a foundation in a small community with a newly funded large endowment generates significant interest across many agencies and organizations in the community. Kevin and the Board have made it clear that the Foundation’s goals aren’t about simply funding projects. Instead, their measure of success is gauged by establishing partnerships that make a deep, measurable impact and make our community a healthier and more vibrant place to live.

On behalf of the Foundation Board, Mr. Store thanked President Mroz for his comments and sentiments. He also introduced Mr. Baroni, their Treasurer, who is also a member of the joint venture governing Board for Portage Hospital to make a few comments on the history of the endowment.

Mr. Baroni, stated that about three years ago we had a visionary CEO at our local hospital, Portage Health. He convinced our Board that the way the health care industry was changing we needed scale, and the best part about him telling us that was we were in a very healthy financial position. He convinced us that we needed to do something like sell or do a joint venture. We found out that we were a very valuable asset to a lot of big systems in the Midwest. We were able to structure a good plan so that this foundation ended up with $60 million, and we still own 20% of the hospital.

Mr. Store stated that the Foundation has in excess of $60 million in assets. As their Board began looking at making financial reinvestments into the community, the Foundation has worked very hard, very intentional, and very meaningful in our reinvestment back into the community. As President Mroz mentioned, we are seeking opportunities which contribute to the development of our community partnerships that take a long term tactful approach to that reinvestment, and we wanted to make sure that it is going to be very impactful for our community. As a result, the Foundation’s Board of Directors has recently concluded to award a $2.5 million grant to Michigan Tech over the course of the next five years. Although Michigan Tech is the recipient of these funds, we do not consider this award to simply be an investment into the institution. Rather the Foundation’s award is going to be leveraged and combined with Michigan Tech’s commitment of $4.2 million over that same period of time for a total of $6.7 million. This is a collective investment in the long term future of our community, both focused on the community and its residents.

When the University first conveyed its interest, we began having the discussions, and the Foundation expressed its desire to have meaningful requests that took into consideration the long term strategic initiatives of the University. We wanted a macro perspective, and not a micro perspective, on where the University was going and how that would align with our core areas of emphasis which includes health research, health education, community health
and wellness, and also the development of emerging healthcare leaders and future providers within our community. This partnership is able to leverage both institution’s strengths and capital resources, and identified outcomes that would directly and indirectly benefit our community. We as the Board of Directors of the Foundation believe that this partnership over time will demonstrate the direct and indirect benefits to our community through increased access to higher education, enhanced educational opportunities for students at all levels, as well as being able to apply what we have learned through academic and research efforts to practical and tactical initiatives that will directly benefit the health of our community and our residents. Both physical health as well as the economic health. We are very excited about this opportunity to partner with President Mroz and his team, and we look forward to this meaningful relationship and would like to thank you for the opportunity.

President Mroz stated that this partnership is truly a product of a shared vision. From our beginnings as a mining college, Michigan Tech has been committed to delivering a world-class education that is relevant to the local community. In recent years, strategic investments have been made to broaden and deepen the University’s engagement with the health sciences and engineering. From aging baby boomers to childhood obesity, there are health needs across the entire lifespan within our community, and world, that the Michigan Tech community is well poised to meet.

Back in 2007, the University encouraged faculty and department chairs to pitch cluster hiring areas that aligned with our strategic plan. At that time, there were approximately 20 faculty oriented towards human health research. A group of faculty led by Jason Carter, associate dean of the College of Sciences and Arts, and chair of the department of Kinesiology and Integrative Physiology, and a former biomedical engineering faculty member Seth Donahue, made the case for a health hiring initiative. They had an uphill battle because, frankly, they were competing with two well-established focus areas at the university -- Transportation and Energy. However, they made a compelling case regarding the students who were looking for health related engineering and science education, and the amount of federal research dollars that were being left on the table by not being in a more competitive situation with the National Institutes of Health (NIH). The NIH budget is over $30 billion, over 4 times the size of the annual budget of the National Science Foundation, one of Michigan Tech’s largest sources of funding.

I remember one particular slide from that presentation that really caught everyone’s attention. Jason and Seth showed that in 2007, NSF distributed $524 million for Mechanical Engineering research (our largest department on campus and one of the largest in the US). In that same year, NIH funded $921 million of mechanical engineering research. This was really an eye opener. Moreover, we are all used to Dave Reed’s periodic research presentations in which we see how much funding is coming from the various federal agencies. For years, the percentage of our federal support coming from NIH has been lower compared to other aspirational and peer technological universities like Georgia Tech, Virginia Tech, and others. Thus, there has been a strategic push to diversify our research portfolio with more NIH funding.

This acknowledgement, combined with the clear national needs in health-related graduates and research, including an auto industry challenged with making more sophisticated fuel efficient and safer vehicles were the impetus for Michigan Tech’s Strategic Faculty Hiring
Initiative in Health. That initiative “jump-started” a shift in faculty hiring that led to an increase from 22 faculty with interests in applying their particular discipline to health issues, to 55+ faculty in 2015.

We’ve been making tremendous strides over the past 5-6 years since the Health Hiring Initiative was completed. In fact, three of those hires Qinghui Chen in Kinesiology and Integrative Physiology, Bruce Lee in Biomedical Engineering, and Xiaoqing Tang in Biological Sciences have received NIH awards within the past 1-2 years.

To keep this momentum going, a Health Science, Technology, Engineering, and Mathematics (H-STEM) Task Force was assembled in 2015 to create a roadmap for how we can achieve the University’s long-term health goals.

As you all know, during this time we also partnered with Central Michigan University to offer CMU’s doctorate of physical therapy program at Michigan Tech, to help meet a critical need for additional physical therapists in the Upper Peninsula. With the financial support of the UP’s hospitals, we were able to marry Central’s clinical expertise with our research expertise.

In support of these initiative, we have put forth a request to the State of Michigan for a $52 million Health Sciences and Medical Engineering Building as Michigan Tech’s top Capital Outlay Project Request. While the timing of Michigan Tech’s next capital project is in the hands of the legislature, this building remains a priority for the University.

From all of this, you can see why formalizing a partnership between Michigan Tech and the Portage Health Foundation could not have been more timely.

In response to the Foundation’s request for a single, campus-wide proposal, we asked Jason Carter and Jodi Lehman to spearhead a campus-wide discussion last fall to cultivate a proposal. That effort included solicitation of white papers for the endowed professorship areas, nominations for a proposal working group consisting of Dr. Adrienne Minerick, Associate Professor of Chemical Engineering and now Associate Dean of Engineering; Guy Hembroff, Director of our Medical Informatics Program; and Dr. Keat Ghee Ong, Director of our Biotechnology Research Center, two open forums, and multiple conversations with the Foundation’s executive director, deans and chairs. As a result of these efforts, our proposal focused on three aims that leveraged the strategic missions and financial strengths of both the Portage Health Foundation and Michigan Tech.

Those included 3 endowed professorships in the following areas: 1) Preventative & Community Health, 2) Medical Informatics, and 3) Technological Innovation in Health; Matching funds for the University’s ongoing Research Excellence Fund program that will internally fund human health-oriented research; and Undergraduate and graduate scholarships/fellowships to support students in health-related fields.

I am confident that through this partnership our local community will see enhanced health-related research and education, new collaborations, coordinated talent attraction and retention, new opportunities for economic growth, and ongoing work to improve access to high-quality healthcare in our community.
Thank you to all involved for “coming together in the beginning,” and “keeping together for the progress” to get us to this point, and your leadership as we “work together for the success” of our community.

III. COMMITTEE REPORTS

Academic Affairs Committee Report

Mr. Woychowski presented the follow report to the Board.
Seven Strategic Questions for AAC

1. Are the University’s educational programs consistent with its mission?
2. Are the University’s strategic goals and initiatives supporting program outcomes?
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:
- Technology Disruptors – Terry Woychowski
- Career Services – Steve Patchin, Director
- Sustainable Futures Institute – Dr. David Shonnard, Director

Research Update

Academic Affairs Committee Report
Technology Disrupters
Terry Woychowski
August 05, 2015
Objective

- Provide a brief overview of potential technology & economy disruptive forcing functions
- Begin the discussion relative to the strategies that would be required to align with this new economy
  - SWOT Analysis
    - What risks do they impose
    - How do we benefit from them
- How will MTU Lead in the future?

The Brilliant Machine Age

Technology Is Rapidly Changing

By 2020 80% of the jobs will be STEM Related
  - Design
  - Complex Problem Solving
  - Systems Integration
  - Big Data Analytics and Formation

This is a seismic ECONOMIC DISRUPTOR
This is a FORMITIBLE RISK
This is a HUGE OPPORTUNITY
• Autonomous Driving and Flying

Volvo announces 100 cars in 2017

• 2015: Tesla Motors Inc. to release a car with “auto-steering” this summer
• 2016: Mercedes-Benz, BMW and Audi will offer cars that take control in a traffic jam
• 2016: Cadillac has promised to debut a model that offers hands-free driving
• 2017: Volvo to produce 100 autonomous cars
• 2017: Audi’s next generation A8 in two years will feature a “central computer brain”

• USA, EU, Canada, Australia, China & Japan – Legislation / agreements for fuel economy or CO2
• USA has proposed target of
  - 35.5 mpg by 2016
  - 54.5 mpg by 2025
  - Implemented over entire country by EPA
• EU Proposal for Vans
  - 175 g/km from 2014-16
  - 135 g/km by 2020
• Challenging Targets:
  - US 4.7% pa to 2025
  - EU 3.9% pa to 2020

Source: NHTSA
Michigan Tech

Energy and Utilities
- Self Optimization of Energy production and distribution

Medical Devices and Pharmaceuticals
- Personalized implants

Michigan Tech

$10,000,000.00 Up For Grabs

Consumer Products and Retail
- Coffee that know how you like it
- Birthday cakes printed with your child’s likeness

Heavy Industrial Machinery and Equipment
- Machines that talk to each other
- Machines that make machines
- **Wearable Technology**

  **Oculus Rift Goggles**
  $1,000,000$ development cost for $2,000,000,000.

- **Additive Manufacturing, 3D Printing**

  **Home 3D Printer**
  For $299.00

  Additive manufacturing could reduce energy use by 50 percent and reduce material costs by up to 40 percent compared to traditional manufacturing.

  4X revenue increase in last 10 years

  $11$ trillion global manufacturing GDP in 2025

- **Nano Technology**

  **Self-Healing Cell Phone Screens**

  Graphene: 100X strength of steel,
  Accelerated battery charging times
Human Interfacing Robotics

- Agile
- Flexible
- Gentle

Pick Up Baxter for about $20,000.00

Internet of Things

GM expects to earn $350 million over 3 years from 4G technology in cars
DETROIT (Reuters) –

General Motors will generate $350 million in improved profit over the three years to 2018 from its rollout of 4G LTE mobile broadband in its cars and trucks, CFO Chuck Stevens said today.

+ 300% Connected Devices last 5 years
$36 Trillion 2025 Economic Impact
Seismic Technological Disrupter

- Gene Sequencing
  - $3 Billion for the first Sequence
  - Now available for about $200.00

Seismic Technological Disrupter

- AI, Artificial Intelligence
  - + 400 million growth of users
  - $8 trillion knowledge worker costs

AI – IBM “Watson” Wins Jeopardy

- What you could do on a calculator in 60,000,000 years
  Watson does in one second

- In the following 3 years:
  - 24 X Faster
  - 2,400% Improved Performance
  - 90% smaller
  - Size of 3 Pizza Boxes
• Continually collect, update and assimilate data
• Amazon will be able to fulfill your order before you even know you want something
• Your car will predict a crash and enact counter measures to avoid it
• Your phone will sense an impending heart attack and alert you and emergency medical services
• You will not be able to lie

Data is the New Natural Resource
10’s of billions of users by 2025
100,000,000 to a trillion sensors
+ $1.5 trillion 2025 GDP related to Internet

What color is a Yield Sign?

In 1971, the YIELD sign was changed to use the red background you see today, along with the white region in the center of the sign.
A New Age is Dawning
The Brilliant Machine Age

So What is the Outlook?

We should all be getting a little nervous: The robot apocalypse is brewing. Steve Wozniak added his own grave predictions about artificial intelligence's detrimental impact on the future.

"Computers are going to take over from humans, no question," he told the outlet.

"I agree that the future is scary and very bad for people," he said. "If we build these devices to take care of everything for us, eventually they'll think faster than us and they'll get rid of the slow humans to run companies more efficiently."

"Will we be the gods? Will we be the family pets? Or will we be ants that get stepped on? I don't know about that."

Musk, the CEO of Tesla, has been the most vocal about his concerns about AI, calling it the "biggest existential threat" to mankind. He is an investor in DeepMind and Vicarious, two AI ventures, but "it's not from the standpoint of actually trying to make any investment return," he said last summer. "I like to just keep an eye on what's going on...nobody expects the Spanish Inquisition," Musk said. "But you have to be careful."
Meanwhile, in a Reddit ‘Ask Me Anything’ Bill Gates voiced similar reservations: “I agree with Elon Musk and some others on this and don’t understand why some people are not concerned,” he wrote.

Similarly, physicist Stephen Hawking has warned that AI could eventually “take off on its own.” It’s a scenario that doesn’t bode well for our future as a species: “Humans, who are limited by slow biological evolution, couldn’t compete, and would be superseded,” he said.

I’m sorry Dave, I’m afraid I can’t do that.

Do you want the Red pill or the Blue pill?
Our anxiety does not come from thinking about the future, but from wanting to control it.

- Edith Emerson

Observe, Adapt and Overcome

“It is not the strongest of the species that survives, nor the most intelligent, but the one most responsive to change.”

- Charles Darwin, 1809
A New Age is Dawning
The Brilliant Machine Age
How Will We Need to Change as Leaders in the Turbulent Changing Time?

Well, in our country," said Alice, still panting a little, "You'd generally get to somewhere else--if you ran very fast for a long time as we've been doing."

"A slow sort of country!" said the Queen. "Now, here, you see, it takes all the running you can do, to keep in the same place. If you want to get somewhere else, you must run at least twice as fast as that."

The Red Queen Effect

Going Up A Down Escalator
Prosperity

Corruption and Decay
• What technology disrupters will impact our 2035 Strategic Plan?

• What must we do to ensure that MTU will thrive and prosper with the seismic technology and economic disrupters on our horizon?

• What role should the Academic Affairs Committee play in the overall Universities response to these disrupters?

• Is course content & curriculum correct to meet future needs?
• Are traditional College and Department Structures Sufficient to meet the demands of the disruptive economy?
  — Cross functional job assignments
  — Integration of cross disciplines
• Are the Majors aligned with the projected needs?
  — Mechatronics
  — Software Engineering
  — Sensor design
  — Data analytics
• What Strategic staffing needs will need to be addressed?
• Are we investing in the infrastructure correctly to support the future needs of the university in this economy?
• How do higher education technology disrupters impact our strategic plan going forward?

If one lily pad doubles every day, and the pond is completely filled in 30 days, how full is it at day 20?

0.01 %
Research and Sponsored Programs Report

Dr. Dave Reed provided the Board with the following report.
Sponsored Program Summary
Preliminary FY15 Activities
August 6, 2015

Dave Reed
Vice President for Research

Outline

• NSF CAREER Award Recipients
• Sponsored Awards, Preliminary FY15
• Research Expenditures, Preliminary FY15
• Intellectual Property/Commercialization, Preliminary FY15
• Corporate Sponsorship, Preliminary FY15

NSF’s CAREER Program

• The CAREER Program is the National Science Foundation’s most prestigious award
• Funds support early-career (untenured) STEM faculty for five years with the goal of building a foundation for a lifetime of STEM leadership
• Recognizes leaders in the integration of research and education
• Through FY14, Michigan Tech has had 40 CAREER recipients
Caryn Heldt
Chemical Engineering
CAREER: Surface and Interparticle Forces for Improved Virus Removal

“The most expensive step in biotherapeutic production is nanofiltration to remove viruses. As new biotherapeutics become available to treat diseases ranging from cancer to rheumatoid arthritis, the steep costs of biotherapeutic production significantly limit universal access and adoption. To reduce the manufacturing costs and promote a greater availability of life-saving therapeutics, I propose a paradigm shift in how virus removal processes are developed.”

Nina Mahmoudian
Mechanical Engineering-Engineering Mechanics
CAREER: Autonomous Underwater Power Distribution System for Continuous Operation

"Success of numerous long-term robotic network missions in space, air, ground, and water is measured by the ability of the robots to operate for extended time in highly dynamic and potentially hazardous operating environments. The proposed work responds to the urgency for development of innovative mobile power distribution systems that lower deployment and operating costs while simultaneously increasing mission efficiency, and supporting the network’s need to be responsive to changing physical conditions.”

Amy Marcarelli
Biological Sciences
CAREER: Yin and Yang – Is there a balance between Nitrogen Fixation and Denitrification in Riverine Ecosystems

“The research in this CAREER proposal will ask (1) do N fixation and denitrification co-exist in streams across a natural range of reactive N concentrations, as they do in other aquatic ecosystems?, (2) do “hot spots” and “hot moments” facilitate this coexistence?, and (3) do increasing nutrient loads shift the balance to favor losses via denitrification, as has long been assumed in studies of riverine ecosystems?”
Research Expenditures, Preliminary FY15

<table>
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<th>College/School/Division</th>
<th>Preliminary FY15</th>
<th>Preliminary FY14</th>
<th>Percent</th>
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<td>91.6%</td>
<td>12.9%</td>
</tr>
<tr>
<td>School of Forest Resources &amp; Environ</td>
<td>1,500,967</td>
<td>5,722,379</td>
<td>99.9%</td>
<td>(-2.9%)</td>
</tr>
<tr>
<td>School of Technology</td>
<td>492,246</td>
<td>492,246</td>
<td>99.9%</td>
<td>0.0%</td>
</tr>
<tr>
<td>Total</td>
<td>96,130,325</td>
<td>96,997,857</td>
<td>99.9%</td>
<td>(-0.9%)</td>
</tr>
</tbody>
</table>

Percentage of Tenured and Tenure-Track Faculty (PI or Co-PI)

- Submitting Proposals Since July 1, 2014: 63.8%
- On Active Projects as of June 30, 2015: 56.0%

Intellectual Property, Preliminary FY15

<table>
<thead>
<tr>
<th></th>
<th>FY15</th>
<th>FY14</th>
<th>Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>Disclosures Received</td>
<td>30</td>
<td>45</td>
<td>-27%</td>
</tr>
<tr>
<td>Non-disclosure Agreements</td>
<td>116</td>
<td>98</td>
<td>18%</td>
</tr>
<tr>
<td>Patents Filed or Issued</td>
<td>17</td>
<td>23</td>
<td>-26%</td>
</tr>
<tr>
<td>License Agreements</td>
<td>11</td>
<td>15</td>
<td>-27%</td>
</tr>
<tr>
<td>Gross Royalties</td>
<td>255,051</td>
<td>262,404</td>
<td>-3%</td>
</tr>
</tbody>
</table>
Student Affairs and Advancement Report

Dr. Les Cook provided the Board with the following report.
Michigan Tech Fund Goals Summary Chart
July 1, 2014 through June 30, 2015
(in millions)

<table>
<thead>
<tr>
<th></th>
<th>FY15 Goal</th>
<th>Actual</th>
<th>% Realized</th>
</tr>
</thead>
<tbody>
<tr>
<td>Major Gifts</td>
<td>$5.00</td>
<td>$6.13</td>
<td>123%</td>
</tr>
<tr>
<td>Planned Gifts</td>
<td>9.75</td>
<td>8.88</td>
<td>91%</td>
</tr>
<tr>
<td>Annual Giving</td>
<td>2.25</td>
<td>2.64</td>
<td>117%</td>
</tr>
<tr>
<td>Corp-sponsored Research</td>
<td>9.50</td>
<td>11.14</td>
<td>117%</td>
</tr>
<tr>
<td>Corporations</td>
<td>3.00</td>
<td>1.37</td>
<td>46%</td>
</tr>
<tr>
<td>Foundations &amp; Other</td>
<td>2.50</td>
<td>3.29</td>
<td>132%</td>
</tr>
<tr>
<td>Gifts-in-Kind</td>
<td>0.50</td>
<td>0.21</td>
<td>41%</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>$32.50</strong></td>
<td><strong>$33.66</strong></td>
<td><strong>104%</strong></td>
</tr>
</tbody>
</table>
7106 Total Enrollment in Fall 2015

6003 Number of Undergraduate applications for 2015-16. The highest in school history.

1488 Number of new students expected this fall, the second largest total since early 1980’s.
Fall 2014 ACT composite score average. This is the highest of all time.

85
Fall 2013 to fall 2014 retention rate – we hit our institutional goal.

96
% placement rate for graduating class of 2014
55 % growth from 2013 to 2015 in SYP enrollment – largest summer enrollment since early 2000's.

3.1 Million dollars in donor funded scholarships in 2014-15

88 % of undergraduates in good standing.
8333 Number of students served in the wellness program – an increase of 33%.

1289 Visits made by Advancement Officers so far this fiscal year.

33,700,000 Raised in FY15.

Total dollars in pending “Asks” 61,432,725
3.26 | Spring term Athletics GPA

58,436 | Total living alumni of Michigan Tech

77 | % of Alumni that we have employment information about.
% of living Alumni that we Have an active mailing address for: 99.5

90 Alumni Events this year, including one in India!

29 Number of wins this year’s hockey team earned.
9 28 19 11

4 NCAA Tournament births

1 WCHA Player of the Year
Tanner Kero
All American, Midwest Region Player of the Year, GLIAC Player of the Year – Ben Stelzer

WCHA All Academic Team Members

Combined annual income this year from our 1,500 graduates earning, on average, $60,000 a year.
B. Audit and Finance Committee Report

Mr. Baldini presented the Board with the following report.

The Audit and Finance Committee has met once since the last board meeting. The unaudited financial reports indicate that fiscal year 2015 will be another positive financial year for the University. Both the general fund and the total current fund are ending with a positive balance.

Julie Seppala, Treasurer to the Board of Trustees, will present a high level review of the preliminary fiscal year 2015 financial results, after my summary.

As approved at the May meeting, the Administration revised the General Fund Operating Budget to reflect the change in the state tuition cap while maintaining a balanced budget, and informed the Audit & Finance Committee of the revised budget.

The Committee heard an update in regards to upcoming real property transactions that the University may start negotiating before the next Board meeting. We have a number of pieces of property that the University has owned for many years, and we asked the Administration to begin looking at some of these to see if we should declare them surplus and look at possibly selling some of them. If the transactions come to fruition, we will be asked to approve those real property transactions at the October Board of Trustee’s meeting.

The Committee also reviewed and discussed with the Administration a preliminary set quarterly financial documents for the Audit & Finance Committee. With the intention of utilizing existing financial reports with the emphasis on providing the Board with relevant financial data in regards to the current fiscal year, historical trends, and future planning targets. The Audit & Finance Committee will continue to work with the Administration to revise and improve the financial reporting to the Board.
The Committee will begin once again looking at putting together the budget for coming year, and obviously that budget is contingent upon a number of factors, and one of them being the State legislature.

**Treasurer’s Report**

Ms. Julie Seppala provided the Board with the following report.
Michigan Tech
Balance Sheet
Condensed Statement of Net Position
as of June 30, 2015
(unaudited - in thousands)

<table>
<thead>
<tr>
<th>ASSETS</th>
<th>University</th>
<th>Tech Fund</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Current Assets</td>
<td>$10,802</td>
<td>$4,439</td>
<td>$15,241</td>
</tr>
<tr>
<td>Noncurrent Assets</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Capital Assets, net</td>
<td>251,895</td>
<td>-</td>
<td>251,895</td>
</tr>
<tr>
<td>Other Noncurrent Assets</td>
<td>27,620</td>
<td>128,398</td>
<td>155,948</td>
</tr>
<tr>
<td>TOTAL ASSETS</td>
<td>$349,417</td>
<td>$132,797</td>
<td>$482,214</td>
</tr>
<tr>
<td>LIABILITIES</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Current Liabilities</td>
<td>$25,962</td>
<td>$810</td>
<td>$26,771</td>
</tr>
<tr>
<td>Noncurrent Liabilities</td>
<td>332,736</td>
<td>5,173</td>
<td>337,909</td>
</tr>
<tr>
<td>TOTAL LIABILITIES</td>
<td>$357,398</td>
<td>$5,983</td>
<td>$363,381</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>$400,000</td>
<td>-</td>
<td>$400,000</td>
</tr>
<tr>
<td>Other net positions, restricted and unrestricted</td>
<td>12,207</td>
<td>128,852</td>
<td>141,059</td>
</tr>
<tr>
<td>TOTAL NET POSITION</td>
<td>$372,207</td>
<td>$131,852</td>
<td>$504,059</td>
</tr>
</tbody>
</table>

Michigan Tech
Current Fund FY15
(in thousands)

<table>
<thead>
<tr>
<th>Original</th>
<th>June Unaudited</th>
</tr>
</thead>
<tbody>
<tr>
<td>Revenue</td>
<td>$273,076</td>
</tr>
<tr>
<td>Expense</td>
<td>($272,413)</td>
</tr>
<tr>
<td>Net Income</td>
<td></td>
</tr>
<tr>
<td>Current Fund Balance</td>
<td>$17,784</td>
</tr>
</tbody>
</table>

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

Michigan Tech
Current Fund Balances
(in thousands)

<table>
<thead>
<tr>
<th>Balance</th>
<th>Balance</th>
<th>Balance</th>
<th>June Unaudited</th>
</tr>
</thead>
<tbody>
<tr>
<td>06/30/12</td>
<td>06/30/13</td>
<td>06/30/14</td>
<td>06/30/15</td>
</tr>
<tr>
<td>Total Current Fund Balance</td>
<td>$12,480</td>
<td>$13,195</td>
<td>$17,121</td>
</tr>
<tr>
<td>Legally Restricted Funds</td>
<td>(3,590)</td>
<td>(2,587)</td>
<td>(3,852)</td>
</tr>
<tr>
<td>Subtotal Unrestricted Current Fund Balance</td>
<td>8,888</td>
<td>10,608</td>
<td>13,269</td>
</tr>
<tr>
<td>Unfunded Actuarial accrued Pension Liability</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Unrestricted Current Fund Balance</td>
<td>$8,888</td>
<td>$10,608</td>
<td>$13,269</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 L. Kennedy, and passed by voice vote without dissent, that the Board of Trustees approve and adopt the items contained in the Consent Agenda.
IV-A. Approval of Minutes

It was moved by T. Woychowski, supported by L. Kennedy, and passed by voice vote without dissent, that the minutes of the formal session of May 1, 2015, as distributed to the Board, be approved.

IV-B. Degrees in Course

It was moved by T. Woychowski, supported by L. Kennedy, and passed by voice vote without dissent, that the Board of Trustees approves the awarding of the degrees as specified, to each of the candidates listed, and offer congratulations.
<table>
<thead>
<tr>
<th>Degree and Specialization</th>
<th>Name(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bachelor of Arts in Communication, Culture, and Media</td>
<td>Devin Gregory Leonardiuzzi</td>
</tr>
<tr>
<td></td>
<td>Riina Ritile-Lisa Ulijas - Cum Laude</td>
</tr>
<tr>
<td>Bachelor of Arts in English</td>
<td>Kimberly Ruth Grigg</td>
</tr>
<tr>
<td></td>
<td>Amber Rae Mysha - Cum Laude</td>
</tr>
<tr>
<td></td>
<td>Olivia Kristen Walter</td>
</tr>
<tr>
<td>Bachelor of Arts in Sound Design</td>
<td>Joseph H Augustine</td>
</tr>
<tr>
<td></td>
<td>Peter Frederick Falk</td>
</tr>
<tr>
<td></td>
<td>Ben John Jaszczak</td>
</tr>
<tr>
<td>Bachelor of Arts in Physics</td>
<td>Christopher Edward Bush</td>
</tr>
<tr>
<td></td>
<td>Adam Nicholas Laxo</td>
</tr>
<tr>
<td></td>
<td>Cody James Salmon</td>
</tr>
<tr>
<td></td>
<td>Charles Davis Stolis</td>
</tr>
<tr>
<td>Bachelor of Arts in History</td>
<td>Tori Lynne Connors - Magna Cum Laude</td>
</tr>
<tr>
<td></td>
<td>Brian James Marcinkowski - Cum Laude</td>
</tr>
<tr>
<td>Bachelor of Arts in Scientific and Technical Communication</td>
<td>Vienna Rae Chapin</td>
</tr>
<tr>
<td></td>
<td>Axel Shane Cote</td>
</tr>
<tr>
<td></td>
<td>Jillian Helen Ritchie - Cum Laude</td>
</tr>
<tr>
<td>Bachelor of Science in Accounting</td>
<td>Christopher A. Ako</td>
</tr>
<tr>
<td></td>
<td>Zachary David Fredrickson</td>
</tr>
<tr>
<td></td>
<td>Matthew Thomas McCluskey</td>
</tr>
<tr>
<td></td>
<td>DeShawn Donell Nelson</td>
</tr>
<tr>
<td></td>
<td>Patrick R Bukel</td>
</tr>
<tr>
<td></td>
<td>Nikhil Ruben Wiers</td>
</tr>
<tr>
<td></td>
<td>Bethany Marie Zanio</td>
</tr>
<tr>
<td>Bachelor of Science in Economics</td>
<td>Justin J Shanaqaqet</td>
</tr>
<tr>
<td>Bachelor of Science in Engineering Management</td>
<td>Christopher Michael Kelly</td>
</tr>
<tr>
<td>Bachelor of Science in Finance</td>
<td>Yifan Chen</td>
</tr>
<tr>
<td></td>
<td>Yi Chen - Cum Laude</td>
</tr>
<tr>
<td></td>
<td>Joel Thomas Florek</td>
</tr>
<tr>
<td></td>
<td>Le Han</td>
</tr>
<tr>
<td></td>
<td>Tyler J Kinunen</td>
</tr>
<tr>
<td></td>
<td>Caishang Li - Cum Laude</td>
</tr>
<tr>
<td></td>
<td>Yuting Liu</td>
</tr>
<tr>
<td></td>
<td>Timothy Seanus McDonnell</td>
</tr>
<tr>
<td></td>
<td>Derek A Menard</td>
</tr>
<tr>
<td></td>
<td>Michael B Morrison</td>
</tr>
<tr>
<td></td>
<td>Paul Aaron Pietila</td>
</tr>
<tr>
<td></td>
<td>Alex Michael Roy</td>
</tr>
<tr>
<td></td>
<td>Benjamin Charles Steizer - Cum Laude</td>
</tr>
<tr>
<td></td>
<td>Cory Roy Sullivan - Cum Laude</td>
</tr>
<tr>
<td></td>
<td>Wenye Xu</td>
</tr>
<tr>
<td></td>
<td>Yi Yuan</td>
</tr>
<tr>
<td>Bachelor of Science in Management</td>
<td>Taylor R Augustin</td>
</tr>
<tr>
<td></td>
<td>Matthew John Eisters</td>
</tr>
<tr>
<td></td>
<td>Warren A Kesti</td>
</tr>
<tr>
<td>Bachelor of Science in Management Information Systems</td>
<td>Bruce Robert Teitelman</td>
</tr>
<tr>
<td></td>
<td>Carl David Gossman</td>
</tr>
<tr>
<td></td>
<td>Tamara Elizabeth Marks</td>
</tr>
<tr>
<td></td>
<td>Stacie L Studer</td>
</tr>
<tr>
<td>Bachelor of Science in Marketing</td>
<td>Laura H Eokoka</td>
</tr>
<tr>
<td></td>
<td>Blake Alan Hetala</td>
</tr>
<tr>
<td></td>
<td>Joy Lynn Kinunen</td>
</tr>
<tr>
<td></td>
<td>Blake Chester Pietila</td>
</tr>
<tr>
<td></td>
<td>Jana Marie Pietila</td>
</tr>
<tr>
<td></td>
<td>Colin Thomas Putters</td>
</tr>
<tr>
<td></td>
<td>Cal Joseph Reinert</td>
</tr>
<tr>
<td></td>
<td>Kayleigh R White</td>
</tr>
<tr>
<td>Bachelor of Science in Operations and Systems Management</td>
<td>Kareem Ahmed Fayyad</td>
</tr>
<tr>
<td></td>
<td>Dylan T Whittaker - Cum Laude</td>
</tr>
</tbody>
</table>
Michigan Technological University Degrees Awarded for Conferral Term : 201501

Bachelor of Science in Applied Geophysics
Jacob Paul Tresnak
Cameron Michael Allen - Cum Laude
Alexis Bethany Alvarez
Alexandra E Bartlett
Hunter Bryan Bartosk
Callin Marie Baleson - Cum Laude
Jacob R Bellopinga - Cum Laude
Kaitlyn Marie Boettler - Cum Laude
Joseph Nicholas Bokserga
Creighton Francis Bradley
Jannah Rae Brandl - Cum Laude
Michael Joseph Briones
Thomas Lee Brown
Alexandra Marie Ceresa
Andrew Bernard Cline - Cum Laude
Matthew David Cline
Kimberly Ann D'Augustino
Jenna Christine Edwards
Christopher D Fisher
Kristin Nicole Flickinger - Summa Cum Laude
Thaine W Fuller
Macwell Oliver Hill
Kaleb James Horn - Cum Laude
Kathleen Marie Ikeda
Kyle Daniel Jansen - Magna Cum Laude
Kyle Andrew Johnson
Samantha Marie Kallman
Mark Lawrence Keranian - Magna Cum Laude
Anil James Lagowski - Cum Laude
Leslie Dianne Lalande - Magna Cum Laude
Laura Lynn Lynch - Cum Laude
Rebecca Jane Manisam - Cum Laude
Mareah Ann Mueleners
Tiffany Noel Moore
Michael Walter Ramalia - Cum Laude
Janellie Marie Rupkeviris
Jari William Sagoe
Benjamin John Sokol - Summa Cum Laude
Lee S Southerton
David William Sproule - Summa Cum Laude
Jessica Christine Thoenke
Kyle Gregory Troutt - Magna Cum Laude
Leah Jo Wachtin
Jessica Paul-Jo Wallteelo
Anna Bali Warter - Magna Cum Laude
Benjamin Hans Weyland
Jonathon William Wheatley
Rebecca D Whitney
Eric Logan Wiktin
Samantha Lee Wright - Magna Cum Laude
Keegan Mitchell Yalies - Magna Cum Laude
Hao Zhao
Nicholas M Zochowski - Cum Laude
David Clemente Stiller
Logan Michael Anderson - Cum Laude
Marshall Brian Bailey
Kevin H Bennett
Emily Louise Blanev
Nina Marie Bonanno

Bachelor of Science in Biomedical Engineering

Bachelor of Science in Engineering

Bachelor of Science in Civil Engineering
Michigan Technological University  Degrees Awarded for Conferral Term : 201501

Derek Brandt - Cum Laude
Tyler James Brown
Matthew David Cisloch
Ronald Francis Coffey
Kevin J Courtney
Robert J Dsvettla
Chelsea Lynn Dubreuil
Alice Loraine Flanders - Cum Laude
Kyle Lee Gilman
Andrew Barry Groneveld - Summa Cum Laude
Richelle Elizabeth Grosskopf
Evan Michael Grzecki
Jay Norman Hansen
James D Herman - Magna Cum Laude
Trace A Hubbard
Thomas Justin Kendrick - Summa Cum Laude
Tanner James Kragembirk
Nikolas Aaron Krommendi - Magna Cum Laude
Cassandra Elizabeth Kuisow
Kaitlin Marie Learmont
Daniel Marc Liveros
Madelaina Gaddie Martin
Tanya Sue Mattonen - Cum Laude
Erica Lynn Motley - Cum Laude
Alyssa Marie Myeris
Ellen Elizabeth Nighingale - Cum Laude
Kyle Aaron Pfeifer - Magna Cum Laude
Austin James Pittk
Erica Lynn Pol - Summa Cum Laude*
Tyler James Pullen
John James Quailey
Tyler Paul Scarlett
Adam Richard Schaal
Matthew T Schwain
Kevin Michael Smith
Richard Daniel Tagline
Patricia Anne Thompson - Cum Laude
Nicholas Scott Tootney - Magna Cum Laude
Micah Tylet Trierweiler
Christian Dishaw Volonis
Derek John Waldorf
Carrie Marie Woehl - Cum Laude
Madison Brooke Ziems
Erik Charles Angerer - Magna Cum Laude
Samantha DLynn Armstrong - Cum Laude
Christopher Edward Bush
Adam Christopher Calverley - Cum Laude
Benjamin Matthew Calverley
Ryan M Carli - Magna Cum Laude
Dylan J Cassel
Courtney Ann Castelic
Graham Reid Cochrane
Matthew Tyler Coel
Michael John D'Angelo - Cum Laude
Zachary John Deniro
Zachary James Dierkert
Michael Allen Faucett
Amy Qing Feng - Cum Laude
Jacob Lee Forbes

Bachelor of Science in Chemical Engineering

Erik Charles Angerer - Magna Cum Laude
Samantha DLynn Armstrong - Cum Laude
Christopher Edward Bush
Adam Christopher Calverley - Cum Laude
Benjamin Matthew Calverley
Ryan M Carli - Magna Cum Laude
Dylan J Cassel
Courtney Ann Castelic
Graham Reid Cochrane
Matthew Tyler Coel
Michael John D'Angelo - Cum Laude
Zachary John Deniro
Zachary James Dierkert
Michael Allen Faucett
Amy Qing Feng - Cum Laude
Jacob Lee Forbes
Michigan Technological University Degrees Awarded for Conferral Term: 201501

Alesha R Furbanks
Nathan Andrew Gahtas
Austin Michael Gauthier
William N Goeman
Andrew M Goreckie
Thomas Alexander Grieves
Megan Anne Haechrel
Paul Craig Hagadone
Alex Joshua Henley
Tyler David Haywood
Colin Davidson Hooije
Arthur Weston Hood
David Robert Hutchinson - Magna Cum Laude
Jesse Ben Johnson - Magna Cum Laude
Kristopher Joseph Kacynski
James Andrew Kenney - Summa Cum Laude
Eugene Kim
Theodore Paul Krase - Cum Laude
Nathan James LaBarge - Cum Laude
Julie Ann LaFond
Daniel J LaForest
Ethan John LeSage
Kyle Michael Lepek
Erik Scott Leslie - Cum Laude
Justin Gregory Levande - Cum Laude
Carissa Jean Lindeman
Michael Emerson Massucci
Ryan Edward McNichis
Madison David Mehrothoe
Jordan John Meyers
Tyler R Middlebrook
Rikky Dean Morissette - Magna Cum Laude
Kaden R Nesky
Chloe Patricia Norton
Douglas Brian O'Hair - Magna Cum Laude
Ryan James Patrick
Joshua Ernest Patton
Jacob Verme Patton
Eric Steven Pearson
Zachary Steven Peterson - Cum Laude
Nicole M Poppa
Eric Michael Simon
Joseph Charles Smith - Cum Laude
Daniel James Stawicki - Summa Cum Laude
Aaron Michael Steeg
Mitchell K Struble
Alec Merlin Boyle Theis
Lindsey Marie Theil - Cum Laude
Taylor James Thorsen
Julie Marie Tomasi - Magna Cum Laude
Karl Nicholas Unerli
Melissa Ann VanLaaren - Cum Laude
Austin Mark VanSteenburgh - Magna Cum Laude
Benjamin D Veenstra
Kayla Marie Warsko - Cum Laude
Elisabeth Anne Waters - Summa Cum Laude
Megan Marie Williams
Joseph Zbigniew Wyrzykowski
Jonathan William Young - Cum Laude
Michigan Technological University Degrees Awarded for Conferral Term : 201501

Bachelor of Science in Computer Engineering

Tyler J Bell
Neil Raymond Betham
Daniel Robert Bock
Timothy James Bradt
Michael David Braun
Zachary A Cavins
David S Ethingh
Joel Jeffrey Ettenger
Kyle Michael Falk
Andrew Marshall Hanson - Cum Laude
Alex Michael Hetala
Marissa J Hintz
Joshua T Inglese
Jesse Tyler Koleson
Jonathan Luke Mahowald - Magna Cum Laude
Zachary B Malinowski
Shaun Michael Mckeehan
Bret Michael Miller
Alexandra Catherine Roche
Robert E Roush - Cum Laude
David S Shull
Kelsey James Smith
Andrew Justin Suneson - Magna Cum Laude
Paul S Thomas
Aaron Lee VarGulis
Andrew Michael Wallis - Cum Laude
Ryan Thomas Waypa
Jordan David Wilson
Corey Acote
Matthew Vincent Alessi
Britta L Anderson
Evan M Bajek - Magna Cum Laude
Jason Allen Baker - Summa Cum Laude
Brayan Randal Bartelt
Jacob Charles Bell
Daryl W Bennett
James Wenceslas Berry
Louis Angelo Bersine
Dylan Tyler Bingle
Michael Joseph Briones
Zachary J Browne
Gem Jomi Chan - Cum Laude
Maria Elizabeth Damiani - Summa Cum Laude
Sylvia Demetri Ferragus
Christopher D Fisher
Timothy Douglas Foster
Benjamin Fredrick Ginnow
Xin Gong
Jordan Matthew Grider - Cum Laude
Matthew Collin Gruber
Noah Ryan Hagman
Joshua Ray Heywood
Jack F Hicks - Cum Laude
James Edward Hingst
Benjamin Joseph Holtz
Matthew Alan Hooker
Joseph Carl Johnson - Cum Laude
John William Keller
Brian Jacob Knapp

Bachelor of Science in Electrical Engineering
Michigan Technological University Degrees Awarded for Conferral Term: 201501

Marc Anthony Kohler
Alex IV Kufel - Cum Laude
Chen Li - Summa Cum Laude
Michael Martin
Kristopher John Martin
Sean David Massey
Jacob Samuel McDonald
Long Meng
Matthew Anthony Miltello - Cum Laude
Rion Lee Mott
Alexander James Pate
Adrienne Lee Piron
Russell Sinclair Prince
Renata Marie Rutsky - Cum Laude
Amanda Jo Rueff - Cum Laude
Samuel J Scott
Nicholas John Shaeib
Grant Gautier Smith
Kyle Gregory Stankowski - Summa Cum Laude
Travis Richard Starkey
Andrew J Szajna - Magna Cum Laude
Kyle Gregory Trout - Magna Cum Laude
William Frands Tuttle
Ian Michael VanTimmeren
Myder Yang - Magna Cum Laude
Caleb Andrew Wright
Boyang Wu - Cum Laude
Yifeng Yan
Sophia Marie Bainbridge
Brent Gregory Cousino - Magna Cum Laude
David William Ekkens
Leah D Frick
Rebecca Lane Green
Laura Jean Harris
Kellie Nicole Heiden
Nicole Michael Iutz
Cassandra Elizabeth Kossow
Chuyuan Nen - Cum Laude
Samantha Anne Olson
Sarah Nicole Peterson
Jonathan Cooley Rickett - Magna Cum Laude
Tia Rose Scarpelli - Summa Cum Laude
Joshua Adam Siler
Hannah Dayle Stabbaugh - Summa Cum Laude
John C Weston
Brady Richard Zeug
Hannah Elizabeth Aftschell
Matthew Jacob Campo
Stephanie Kristine Dow - Magna Cum Laude
Mark Aaron Gayski - Magna Cum Laude
Cora Rose Hemmala
Evan Patrick Birckett
Corey Abate
Mollie Jayne Andor - Cum Laude
Marc A Antinossi
Jeffrey N Baker
Alexander Arviston Bancroft - Cum Laude
Beau Nicholas Barber - Magna Cum Laude
Braden Lee Barber
Michigan Technological University Degrees Awarded for Conferral Term: 201501

Kristopher R Benaglio - Cum Laude
Golina Berestetsky
Trevor R Birr
Christopher Mark Blanchet - Magna Cum Laude
Charles Michael Booth - Magna Cum Laude
Anna Elizabeth Brechling - Cum Laude
Aaron James Brock
Jessica L Buck - Cum Laude
Michael Walter Buhr - Magna Cum Laude
Daniel Burg
Dustin Troy Cochrane
Andrew Robert Crepeau
David Paul Daavetilla
Christopher David DeGroot - Summa Cum Laude
Adam D Deblieker
Jacob Stephen Demarais
Garrett Michael Dubie
Zachary Edward Dubel
Aaron Christopher Dupre - Cum Laude
Michael James Dzurzalski - Magna Cum Laude
Karl Edward Evenson
Maxwell Joseph Farrell - Magna Cum Laude
Megan Elizabeth Farrish
Nathaniel William Ford
Benjamin Randall Ford
Andrew C Garrod
Clayton Matthew George
Jonathan Tyler Giddens
William J Geida
Autumn Nicole Giles
Ryan Timothy Grady
Stephen K Greutman
Andrew Kenneth Hamm
Bret Wayne Harris
Stephanie G Haselthuhn - Cum Laude
Brian C Haupt - Magna Cum Laude
Benjamin T Herzog - Magna Cum Laude
Spencer Harrison Hill - Cum Laude
Jeremy W Hoffmann
Samuel Kryn Holmes - Magna Cum Laude
Benjamin Joseph Holz
Patrick Michael Holzer
Sean Michael Hurd
Joseph Andrew Jendrusina
Benjamin Thomas Jensen - Magna Cum Laude
Dagny Marie Jothe - Summa Cum Laude
Samantha Marie Kalman
Dean Robert Kelhy - Magna Cum Laude
Michael James Kita - Cum Laude
Joshua David Kizer
Maverick James Klotz
Benjamin Stuart Kolb - Magna Cum Laude
Rebekah J Koning
Daniel James Krudy
Jordan Walter Kubista
Sean William Kuchta
Tyler Jon Kuyper
Arick James Lagowski - Cum Laude
Jani William Lane - Summa Cum Laude
Michigan Technological University Degrees Awarded for Conferral Term: 201501

James Philip Larson - Magna Cum Laude
Xiaohu Li
Dian Li
Jordan T. Locher
Patrick Dalton Loew
Nicholas C. Lord
Chris Lubster - Summa Cum Laude
Teng Ma
Sean Anthony Meckey
Jonathan E. Meehan - Cum Laude
John M. Meshak - Cum Laude
Joshua N. Mattiush - Cum Laude
Andrey S. Merzljakov
Alexander Tiberias Miltenberger
Jeremy Allen Mims
Cameron Dennis Morgan
Zachary John Morgan - Summa Cum Laude
Ivan R. Nami
Kelsey A. O'Brien - Summa Cum Laude
Stephen John Olson - Cum Laude
Brian Raleigh - Cum Laude
Michael A. Pristov
Jacob Jeffrey Raddeke
Parry G. Ragland
Megan Leigh Raspel - Cum Laude
Nash James Rau
Ethan Thomas Raulio
Otto Anthony Regentik
Sophia Mary Rizzo
Paul Michael Roehr - Summa Cum Laude
Martin Francis Schauba - Magna Cum Laude
Nathaniel Paul Scheitz
Karl David Schricker - Magna Cum Laude
Matthew Jacob Schlueter - Summa Cum Laude
Kyle Jon Schmeltz - Cum Laude
John Matthew Schuman
Clay Michael Seekley
Kelly R. Shanahan
Alex Christopher Sieberg - Cum Laude
Nicholas Andrew Still
Benjamin John Sokol - Summa Cum Laude
Lee S. Southerton
Alexander Ethan Steinbueck
Timothy Michael Steinmetz - Summa Cum Laude
Richard Daniel Stevens - Magna Cum Laude
Spencer Kyle Stuhlbrecher
Travis J. Teall
Tyler Dennis Tissue
Nathan Robert Tromp
Daniel J. Trupp
Benjamin Steven Turner
Levi Shewan Vermeer
Tyler Galen Vincent - Cum Laude
Trevor David Vuorinen
Erik Daniel Wachlin
Kaixuan Wang
Yakun Wang
David Vincent Waters - Summa Cum Laude
Colton Joseph Wesoloski - Magna Cum Laude
Michigan Technological University Degrees Awarded for Conferral Term: 201501

Bachelor of Science in Materials Science and Engineering

Zachary Davis Westcott - Cum Laude
Stephen Alexander Whalen
Michael James Wilhelm - Magna Cum Laude
Eric Logan Wittenberg
Douglas M Wojcik - Magna Cum Laude
Jiyun Xie
Joshua Michael Yadley
Jianfeng Zhang
Qichen Zheng - Cum Laude
Nicholas M Zochowski - Cum Laude

Shane M Anderson - Cum Laude
Kara Ann Bakoowski
Zachary Colin Boydan
Robert John Coskey - Magna Cum Laude
Kimberly Ann D'Augustino
Austin Matthias DePottey - Magna Cum Laude
Jacob Carl Gerdt
Alexandra Gannon Glover - Magna Cum Laude
Stephanie G Haseltuhn - Cum Laude
Kathleen Marie Ikeda
Laura Melissa Jewett
Alexander Charles Kampf
Robert William Lippus
Nathaniel A Musser
Kyle Eric Myers
Austin David O'Connor - Cum Laude
Andrea C Paul - Summa Cum Laude
Jordan Guy Pontoni
William Jefferson Price
Jenna Helene Proctor
Alexander David Rentil

Emily Ann Veltman - Cum Laude

Bachelor of Science in Applied Ecology and Environmental Sciences

Anna Clare Buckard - Summa Cum Laude
Catherine Ann Hight
Shane Clarence Kleinman - Magna Cum Laude
Kyle John Yanusso - Magna Cum Laude

Ashlee Marie Baker - Magna Cum Laude

Bachelor of Science in Forestry

Ethan J Bell
Michael James Brodeur
Joshua James Dunninger
Chad A Fugge
Steven M Hollis
Bryce Kenneth Jaquenet
Lee Costopoulos
Brian John Nordstrom
Quentin C Phillips
Lauren Ashley Rusin - Magna Cum Laude
Garrett Williams Shaw
Michael Adam Stanley

Bachelor of Science in Wildlife Ecology and Management

Kaitlyn M Allen - Cum Laude
Megan Marie Baker
Gunnar Christian Branner
Sarah Michelle Ihnue
William Robert Thomas - Cum Laude

Bachelor of Science in Anthropology

Alexander Charles Atkinson - Cum Laude
Jason Michael O'Malley
Travis Wayne Booter - Cum Laude
Katherine Elizabeth Trotter - Magna Cum Laude

Bachelor of Science in Biological Sciences

Alyssa Margaret Andrew
Michigan Technological University  Degrees Awarded for Conferral Term : 201501

Ryan Joseph Berhow
Ryan Alan Dixon - Summa Cum Laude
Brian William Doughty
Mindy Lynn Harrington - Summa Cum Laude
Anthony R Hebert
Cameron N Hopper
Ellyn April Hurst - Summa Cum Laude
Patricia Jonise Louis
Abigail M McCall - Magna Cum Laude
Roh-Rogi Mendoza
Rebecca Lynn Mills - Summa Cum Laude
Julie Renee Murasko
Spencer William Olson - Magna Cum Laude
Jade Elizabeth Ortiz - Magna Cum Laude
Derek Paul Richard Pierce - Magna Cum Laude
Bridget Ann Rebbeck
Nikko Thomas Sirdenis - Magna Cum Laude
Kayla Marie Stemberger - Summa Cum Laude
Jessica Ann Suchanek - Magna Cum Laude
Lauren N Tanskanen
Travis Ryan Wakeham

Bachelor of Science in Chemistry
Gregor M Cere
Luke Charles Doskey - Cum Laude
Rachel Ann Fouts - Summa Cum Laude
Esther Elizabeth Garrod
Andrew Joseph Kennedy
Jacob Robert Meyers
Austen Thomas O’Dea
Michael Janusz Sztatkowski

Bachelor of Science in Pharmaceutical Chemistry
Yujing Guo
Melissa Marie Hallmann
Audra Corynne Winter - Cum Laude
Courtney Mary Sue Wosniak

Bachelor of Science in Computer Science
Corey Michael Biskis - Magna Cum Laude
Austin Joseph Browne - Magna Cum Laude
Anthony W Campbell - Summa Cum Laude
Michael James Calen
Joshua Thomas Davies
Alexander Ryan Dismorr
Brandon Jacob Dusseau - Cum Laude
David Alexander Flocke
Milo Quinn Garjoejansen - Cum Laude
Michael Allen Grimes
Hurricane Hamilton - Cum Laude
Nathan James Jackets
Brady Ryan Mahar
Clayton Elijah Marriott
Chad Michael Meyers - Cum Laude
Kyle David Mills - Magna Cum Laude
John A Novak
Luke Aaron Paras
Jonathan C Pentis
Matthaeus Andreas Saavedra
Taylor John Scanlon
Nicole Marie Schlorke - Magna Cum Laude
Samuel Bean Seiber-Johnston
Dominick P Strotti
William Robert Edward Wallace
Christopher Brian Wallis - Summa Cum Laude
Michigan Technological University Degrees Awarded for Conferral Term : 201501

| Bachelor of Science in Computer Systems Science | Adam Weidner - Magna Cum Laude |
|                                               | Brian Thomas Weltherbee         |
|                                               | Eric H Zimmer                  |
| Bachelor of Science in Exercise Science       | Connor R Meade                 |
|                                               | Gregory Niel Miller            |
| Matthew B Bautch - Cum Laude                  | Jacob Charles Baxter           |
| Alyssa Lee Chapman - Summa Cum Laude         | Brittany Amberleigh Engman - Cum Laude |
| Ashleigh Kay Finn - Cum Laude                 | Maria Frick - Cum Laude        |
| Jennifer Marie Hackman                       | Sara Rose Idema - Cum Laude    |
| Deedra Blu Irwin - Magna Cum Laude            | Jacqueline Christine Landry - Cum Laude |
| Jonathan Patrick LeFevre                     | Marie Rene Mots - Magna Cum Laude |
| Enrica Jay Ryschert                          | Kienna R Sharp - Magna Cum Laude |
| David William Sproule - Summa Cum Laude       | Paul Robert Dudley Kirby       |
| Bachelor of Science in Audio Production and Technology | Alec Michael Griesell      |
| Bachelor of Science in Theatre and Entertainment Technology | Austin Bree Guess          |
|                                               | Tyler Paul Harry               |
|                                               | Morgan Alissa Nelson           |
|                                               | Austin C Roy                   |
|                                               | Gregory Allan Sidnam           |
| Bachelor of Science in Mathematics            | Jinan Nimati Allan - Magna Cum Laude |
|                                               | Adam M Dietz                   |
|                                               | Brent Allen Ferrier            |
|                                               | Kelly Candice Grady - Cum Laude |
|                                               | Jaclyn Ann Horsell - Summa Cum Laude |
|                                               | Ashley Kern                    |
|                                               | Erich Leland Kneidy            |
|                                               | Shane Clarence Kleinman - Magna Cum Laude |
|                                               | Joshua S Obedai                |
|                                               | Charles E Sallie               |
|                                               | Sydney Shay Snyder             |
|                                               | Kimberly Marie Stanke - Magna Cum Laude |
|                                               | Emily Ann Veltman - Cum Laude  |
|                                               | Nicklaus Robert Winkel - Cum Laude |
|                                               | Holly Louise Zehfus - Summa Cum Laude |
| Bachelor of Science in Biochemistry and Molecular Biology | Jake Thomas Crumb         |
| Bachelor of Science in Biochemistry and Molecular Biology | Kailley Ann Feuerstein      |
| Megan Anne Horechel                          | Rayah Jean Kemmer - Summa Cum Laude |
| Alexis Nicole Trafelet                       | Alyssa Nicole Eleggerd        |
| Jacyln M Hollars                             | Joe Robert Icard              |
| Joel Robert Icard                            | Rebecca Lynn Kurt             |
| Troy Layne Long                              | Kali Elizabeth Nelson - Cum Laude |
| Laura Ellen Rudy - Magna Cum Laude            | Allison M Patchel             |
| Damon Steven Stafford                        | Laura Ellen Rudy - Magna Cum Laude |
| Valerie Jean Taglione - Magna Cum Laude      |
Michigan Technological University Degrees Awarded for Conferral Term : 201501

Bachelor of Science in Physics
Sarah Elaine Westdorp
Alexandra Rose Zehnpfennig - Cum Laude
Cody Lee Bell
Jeanine Alyssa Chmielierski
Eric Daniel Morris - Magna Cum Laude
Luke Alexander Schroeder

Bachelor of Science in Psychology
Katharine Rae Boardman
Brett Michael Campbell
Robin Lee Chosa
Philip Thomas Foltz - Magna Cum Laude
Kristin Grew
Alexandra Louise Hand
Kayla Rose Hartler - Magna Cum Laude
McKenzie Kay Jordon - Cum Laude
Kaitlyn Renee McMahon
Blake S Panasiwicz
Cassandra Danielle Santerre

Bachelor of Science in Software Engineering
Travis S Foster - Magna Cum Laude
James Francis Hannah
Quincy A Howe
Brandon C Kester - Cum Laude

Bachelor of Science in Sports and Fitness Management
Blake Alan Hefala

Bachelor of Science in Social Sciences
Veronica Anne Tabor - Cum Laude

Bachelor of Science in Scientific and Technical Communication
Ann L Dahquist
Sarah Elizabeth Ingold
Sarah Marie Kelly
Jane Marie Kirby - Cum Laude
John William Reynolds
Megan Alison Walsh - Cum Laude

Bachelor of Science in Construction Management
Gregory Harold Filipus
Jonathan Robert Hawthorne
Daniel Terrence Lee
Brook Douglas Paylow
Ross Michael Pennala
Matthew S Santti

Bachelor of Science in Computer Network and System Administration
Ayoub A Alhwardan
Harrison Summer Bowden
Neal Joseph Buccanero
Kyle Jacob Chiamulera - Magna Cum Laude
Cole Andrew Ellis
Matthew Lawrence Freitag
Ryan Travis George
Shawn William Hansen
Lucas K Hanson - Cum Laude
Tyler Lee Inman
Eric Lamont Johnson
Jared Francis Ledvina
Christopher Scott Lindquist
Caroline N Maye
Philip Justin Middleton
Destin James Mitchell
Inmelisa Bonita Rangel
Jay R ausch - Magna Cum Laude
Kelsy Noel Van Aken - Magna Cum Laude
Brian Joseph Zarn

Bachelor of Science in Electrical Engineering Technology
Brett A Dupont
Logan Edwards
Antonio Ariello Passariello
Stephen R Penny
Michigan Technological University Degrees Awarded for Conferral Term: 201501

Bachelor of Science in Mechanical Engineering Technology

Anthony Russ
Donald Joseph Straughan
Justin D Acorn
Mansour Thuwaini T Alshammari
Zachary James Barry
Brandon J Bloomer
Jaebediah James Doebel
Morgan J Doering - Magna Cum Laude
Taylor J Driscoll
Marshall D Fox
Joshua Matthew Garlitz
Matthew Allen Gasco
Michael Thomas Gorman
Anthony David Hela
James Howard Heinis
Alex M Hirschke
Greg Robert Johnson
Cameron I Knapp
Justin Allen Lee
Nathan Peter Manderfeld
Justin Daniel Nichols
Macrae Stuart Perks
Nicholas Roman Sarnowszyna
Jonathan William Sanders
Ryan Gregory Srinie
Alex James Tomaszewski
Dirk Van Appledorn

Bachelor of Science in Surveying Engineering

Jordan Paul Danzer - Magna Cum Laude
Matthew Wyatt Smith
Raymond John Steller
Benjamin W Stroven - Cum Laude
Caillt Marie Wotruba - Cum Laude

Master of Geographic Info Sci in Geographic Information Science

Robert WARREN Clark
Scott Crandall Hillard

Master of Science in Biomedical Engineering

Brett William Barker
Samantha Ann Hilliger
Christina Jo Ylitalo

Master of Science in Civil Engineering

Brandon Michael Abel
Enhua Bai
Benjamin Peter Bryant
Kathleen Valdez Carpio Buswell
Thomas Jeffrey Kilpela
Natalie Danielle Lambert
Chenghui Li
Jonathan Thomas Nelson
Paul Thomas Pebler
Sarah Jane Reed
Dakota P Roberts
Daniel Joseph VanSembrouck
Levi A Walker
Xinhao Zhang

Master of Science in Chemical Engineering

Ajayna Nitin Deshmukh

Master of Science in Computer Engineering

Dnyanesh Prakash Joshi
Mandar Hemantil Phadnis
Yachen Tang

Master of Science in Electrical Engineering

Osdeer Abdul
Shashank Ashok
Krishna Bandi
Prasad Ashok Bethkar
Michigan Technological University Degrees Awarded for Conferral Term : 201501

Md. Rasheduzzaman Bubbul
Shi Cheng
Neetam Sadasiv Chopade
Pankaj Deshmukh
Abhijeet Dhananjay Divekar
Md. Abdullah A. Farooqui
Dhaval Rajeshbhai Fatter
Manjunal Alam Faud
Tejeswini Gajalra
Jeswin Geevarughese
Yan Guo
Cody Garrett Gustafson
Negin Heidari
Rui Hu
Pratik B. Joshi
Shivram Juneja
Vishwanath Vijaykumar Kadaliage
Jaysanth Kolavagoda
Prijanka Kalindri
Shivaram Kannimangalam Viswanathan
Saurabh Sunit Karanjkar
Shravan Kassirla
Kannan Lakshmanan
James Keith Landman
John Michael Leicht
Yew Sun Leong
Pratik Shrikant Musalay
Lakshmi Bharani Pallavalli
Manoj Perumuri
Rajani Pendli
Anuj Sheerawas Potnis
Sterling Fidel Prince
Samyudipta Rakshit
Vivek Krishna Ramachandran
Ajinkya Prabhakar Rohankar
Sall Sabade
Sumit Sawai
Derrick David Schutzten
Bahram Seifi
Nirav Shahad Shah
Brijendra Singh
Kartik Srivastava
Hari Prasanna Subbaraj
Varun Thippeswamy
Piyali Kaushikkumar Trivedi
Chen Xu
Li Hao Yeh
Lisha Yue
Amir Zandin
Chentao Zhao
Yingkun Zhu

Master of Science in Environmental Engineering
Brana Irene Drake
Jennifer Lynn Julien
Benjamin Lyle Savonen
Alicia Rose Sherrill
Kelcie Reynolds Treyloff

Master of Science in Geology
Nicholas Ronald Stewart
Lu Yang

Master of Science in Mechanical Engineering
Wade James Aitken-Palmer
Michigan Technological University Degrees Awarded for Conferral Term : 201501

Pruthvi Ravi Raj Bachu
Amrutnath Shreemal Bhide
Sanket Srinivas Bhogle
Yue Cao
Pratamesh Bhivajiv Chendvankar
Swapnil Bobul Desai
Nirmish Prabhat Deshpande
Tanmayee Suresh Fate
Koushik Dileep Gohed
Souman Halder
Kavita Hale
Sriram Hao
Joseph Konrad Heuvers
Yu Xuehao Hong
Pranav Babasaheb Jadhav
Pratamesh Balasaheb Jadhav
Sali Dilip Jagtap
Narayan Bhagwandas Jaju
Deeptika Jayak Prakash
Lingyu Jiang
Jagendra Joshi
Ruiyu Kang
Kaven Khosla Rabad Sabadabi
George Kurian
Kishor Ashok Mathur
Prashik Meruva
Karthik Mysore Srinivasa
Hua Jun Ni
Harsinh Nathulalpati
Amanda O'Toole
Amr Kumer Pandey
Ashish Pandita
Ronak Vinod Panicker
Isha Nirmal Pargoonkar
Janak Vinod Parmar
Rohan Ramesh Patil
Vanishri Pramodrao Pawade
Sai Srinivas Chalravathy Petur
Tejas Nandkumar Ranade
Meysam Rizamara
Pramall Shashikant Sapana
Amol Samal Shetar
Pengyuan Shen
Ning Sheth
Devendra Padmakumar Shinde
Xiaoyu Song
Jiajun Song
Vinayak Shridhar
FNU Sumant Bhagwanji Nagendran
Shishan Sun
Alex Thiruvelu
Bageshree Parasanna Umarani
Aadarsh Upadhyay
Luting Wang
Xiaofan Ye
Jiongjun Zhang
Yu Zhao

Master of Science in Materials Science and Engineering
Matthew Dwight Andries

Master of Science in Applied Ecology
Aida C Mau
Michigan Technological University Degrees Awarded for Conferral Term: 201501

Master of Science in Forestry
Samantha Leigh Mosier
Grace L Parkh
Fatimah Maria Baiteri
Justin Rourke Gelb

Master of Science in Forest Molecular Genetics and Biotechnology
Roba Bider
Kendall Rose Grazel
Jeremy Gerard Chatz
Zhaoxiang Jin
Can Li
Zhaoqiu Qiu
Liang Yan

Master of Science in Environmental and Energy Policy
Naima Kuddus Khan
Amanda Rhea Kreuze
Edward Peace Louie
Mehjabeen Rahman
Samah Ahmad Alokaili
Nattapon Chuenjarem
Brent David Halonen
Shuai Min Kang
Olajari Yusuf Shonibare
Wentao Wang
Ting Zhao
Kiely Josephine Spinto
Belekech Chouaing Chagra
Cynthia Marie Delaney
Fatimata Wusumpi Mohammed
Elsa Leigh Roberts
Victoria L Sage
Samuel Tang Aden
Hamed Pouryousef
Howard James Haseltuhn
Yonghe Guo
Riccardo Tordi
Mark F Kroniter
Fengde Ma
Adam Patrick Cobbie
Sandra Ashmampong Owusu
Bo Zhang
Jen-Yung Chang
Xiaobao Geng
Cameron M Hadden
Mark Andrew Hopkins
Michael Toomas Kivisalu
Brandon Scott Prestman
Ashley Anne Cible
Venkata Ramana Reddy Pidatala
Sunita Feuangfong
Jianguo Zhang
Li Li
Jun Ma
Douglas Robert Banyai
Katherine G Aho
Gary Arthur Kaunonen

*Previously included in the fall conferral list erroneously.
IV-C. Gifts

It was moved by T. Woychowski, supported by L. Kennedy, and passed by voice vote without dissent, that the Board of Trustees acknowledges the gifts to Michigan Technological University.

Michigan Technological University
Michigan Tech Fund
Gift Activity Cash Report
July 1, 2014 through June 30, 2015
Compared to Prior Year

<table>
<thead>
<tr>
<th>Gift Type</th>
<th>FY15 YTD Total</th>
<th>FY14 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>12,673,946</td>
<td>8,171,767</td>
<td>4,502,169</td>
<td>55.1%</td>
</tr>
<tr>
<td>Realized Planned Gifts (current year)</td>
<td>149,659</td>
<td>310,586</td>
<td>-160,927</td>
<td>-51.8%</td>
</tr>
<tr>
<td>Current Year Subtotal</td>
<td>12,823,605</td>
<td>8,482,353</td>
<td>4,341,252</td>
<td>51.2%</td>
</tr>
<tr>
<td>Cash (receipts from prior year pledges)</td>
<td>1,242,139</td>
<td>1,596,423</td>
<td>-354,284</td>
<td>-22.0%</td>
</tr>
<tr>
<td>Realized Planned Gifts (previously recorded)</td>
<td>5,256,351</td>
<td>2,466,760</td>
<td>2,789,591</td>
<td>112.9%</td>
</tr>
<tr>
<td>Receipts from Previous Year Subtotal</td>
<td>6,498,480</td>
<td>4,160,183</td>
<td>2,338,297</td>
<td>55.9%</td>
</tr>
<tr>
<td>Total</td>
<td>19,322,107</td>
<td>12,650,547</td>
<td>6,671,560</td>
<td>52.7%</td>
</tr>
</tbody>
</table>
IV-D. Resignations, Retirements & Off Payroll

It was moved by T. Woychowski, supported by L. Kennedy, and passed by voice vote without dissent, that the Board of Trustees accepts the resignations and confirms the off payroll determinations.
BOARD OF TRUSTEES OFF-PAYROLL REPORT
(April 15, 2015 – July 18, 2015)

### 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>Moore, Don</td>
<td>Electrical &amp; Computer Eng</td>
<td>Professor of Practice</td>
<td>08/19/14</td>
<td>05/08/15</td>
</tr>
<tr>
<td>Zuraw, Clare</td>
<td>Humanities</td>
<td>Instructor</td>
<td>08/18/14</td>
<td>05/08/15</td>
</tr>
<tr>
<td>Pathak, Saurav</td>
<td>School of Bus &amp; Economics</td>
<td>Assistant Professor</td>
<td>08/07/11</td>
<td>05/15/15</td>
</tr>
<tr>
<td>Kramer, Louisa</td>
<td>Geo &amp; Mining Eng &amp; Sci</td>
<td>Assistant Professor</td>
<td>03/01/08</td>
<td>06/30/15</td>
</tr>
<tr>
<td>Mariotto, Isabella</td>
<td>Sch Forest Res &amp; Env Sci</td>
<td>Assistant Professor</td>
<td>12/29/14</td>
<td>06/19/15</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Retired</th>
<th>Department</th>
<th>Title</th>
<th>Hire Date</th>
<th>Term Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Warrington, Anne</td>
<td>School of Bus &amp; Economics</td>
<td>Senior Lecturer</td>
<td>11/13/96</td>
<td>05/15/15</td>
</tr>
<tr>
<td>Pickers, James</td>
<td>Sch Forest Res &amp; Env Sci</td>
<td>Professor</td>
<td>08/02/85</td>
<td>05/22/15</td>
</tr>
<tr>
<td>Snyder, Thomas</td>
<td>Biological Sciences</td>
<td>Associate Professor</td>
<td>08/30/77</td>
<td>05/30/15</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Off-Payroll</th>
<th>Department</th>
<th>Title</th>
<th>Hire Date</th>
<th>Term Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Klooster, Mary</td>
<td>Kinesiology/Int Physiology</td>
<td>Senior Lecturer</td>
<td>08/12/07</td>
<td>04/30/15</td>
</tr>
<tr>
<td>Bowen, Lauren</td>
<td>Humanities</td>
<td>Assistant Professor</td>
<td>08/20/12</td>
<td>07/01/15</td>
</tr>
<tr>
<td>Burke, Kathleen</td>
<td>Humanities</td>
<td>Lecturer</td>
<td>08/07/11</td>
<td>07/08/15</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>
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IV-E. 2016 Tentative Meeting Dates

At the October meeting of the Board of Trustees dates are generally set for next year’s meetings. In order for members to check their calendars, the tentative dates are presented. If there is a problem with any of these dates, members are asked to please notify the Board Secretary.

- Friday, February 26, 2016
- Friday, April 29, 2016 (Commencement – Saturday, April 30)
- Thursday, August 4, 2016 (Alumni Reunion)
- Friday, October 14, 2016
- Friday, December 16, 2016 (Commencement – Saturday, December 17)

This is an informational item for the Board.

IV-F. Michigan Technological University/Michigan Tech Fund Agreement

It was moved by T. Woychowski, supported by L. Kennedy, and passed by voice vote without dissent, that the Board of Trustees approves the Michigan Technological University/Michigan Tech Fund agreement, and also, that the Board goes on record as having reviewed and approved the operations of the Michigan Tech Fund to continue as a recipient of donations eligible for the State of Michigan income tax credit.

AGREEMENT BETWEEN MICHIGAN TECHNOLOGICAL UNIVERSITY AND THE MICHIGAN TECH FUND

This Agreement made September 1, 2015 between Michigan Technological University (“University”) and the Michigan Tech Fund (“Fund”).

WHEREAS, the Fund’s work in receiving and managing charitable gift assets for the University is critical to its ability to fulfill its mission and strategic direction, and

WHEREAS, Fund’s advocacy of the University’s mission and priorities constitutes a valuable service, and

WHEREAS, fundraising is a joint priority of the University and the Fund, and

WHEREAS, the University and the Fund desire to continue a heretofore existing arrangement:
IT IS AGREED:

1. In consideration of the support directly inuring to the benefit of the University from the activities of the Michigan Tech Fund, the University will provide to the Fund:
   a. supporting services including mail services, limited printing services, access to the phone network, and an internal audit of Fund transfers to the University;
   b. access to the Banner system for maintenance and upkeep of the alumni/development database. The University will partially fund the alumni database maintenance conducted by the Fund.

2. The Fund agrees to continue its various fundraising administrative support and asset management functions for the betterment and advancement of the University. The Fund also agrees to support consulting services as done in the past.

3. This agreement shall terminate on August 31, 2016 and will be considered for renewal for successive one-year periods. The grant or denial of such renewal shall be at the sole discretion of the Board of Control of Michigan Technological University.

   By:

   Michigan Technological University

   By:

   Michigan Tech Fund

IV-G-a. 12.2. Building and Property Rules and Regulations

It was moved by T. Woychowski, supported by L. Kennedy, and passed by voice vote without dissent, that the Board of Trustees amends policy 12.2. Building and Property Rules and Regulations as presented herein.

The amended paragraph shall read as follows:

This Policy constitutes a Rule or Regulation pursuant to and enforceable (including the statutory maximum penalties) pursuant to Michigan Constitution 1963, Article 8, Section 6; MCL 19.141 et seq. MCL 390.363 et seq or MCL 752.581 et seq as applicable.

The amended policy shall read as follows:
12.2 BUILDING AND PROPERTY RULES AND REGULATIONS

1. Smoking and all tobacco use is prohibited except where approval is granted by the Vice President for Administration.

2. Use or possession of alcoholic beverages is prohibited, unless specifically approved in writing by the President, in accordance with the policy of the Board of Control on alcoholic beverages.

3. Solicitation, advertising, or sales on property owned or controlled by Michigan Technological University is prohibited unless authorized by the Vice President for Administration. The exceptions to this are:
   a. Advertising is permitted only on designated bulletin boards, as permitted by, or in other locations, as authorized by the manager of the building in which the advertising occurs.
   b. Student organizations registered with the Vice President for Student Affairs and Advancement may sell tickets or conduct limited sales of goods, advertise, solicit, and use grounds as authorized by the manager of the building or grounds in or on which the activity occurs.

4. Activities or announcements at Michigan Technological University events shall have the prior written approval of the Vice President for Administration or a delegated representative, with the following exceptions:
   a. Announcements regarding the operation of a facility may be authorized by the manager of the building or grounds on which the announcements are made.
   b. Announcements regarding traffic, health, or safety may be authorized by the Department of Public Safety and Police Services.
   c. Announcements relating to the game or event in progress may be made over the public address system by the game announcer providing such announcements are appropriate to the situation and in good taste.

5. Distribution of handbills or other printed material is permitted only in designated areas.

6. Unruly behavior will not be tolerated and may be cause for expulsion from the facility.

7. For reasons of health and sanitation, cats, dogs, birds, or other pets or animals are prohibited except as authorized by the Vice President for Administration. The exceptions to this are:
a. Animals owned or maintained by Michigan Technological University for educational or research purposes after receiving the approval of such facilities by the Provost and Vice President for Academic Affairs.

b. Animals and aquariums may be kept in University housing facilities after receiving the approval from the Vice President for Student Affairs and Advancement.

c. Guide, leader, hearing or service animals certified by an accredited school or state approved trainer when used by a qualified individual with a disability in compliance with State or Federal Law.

8. Bicycles shall not be brought into University buildings or ridden, stored, or parked in corridors, stairwells, laboratories, offices, classrooms, or buildings other than in those designated areas in student housing facilities.

9. This policy shall be administered in accordance with rules and procedures established by the Vice President for Administration.

This Policy constitutes a Rule or Regulation pursuant to and enforceable (including the statutory maximum penalties) pursuant to Michigan Constitution 1963, Article 8, Section 6; MCL 19.141 et seq. MCL 390.363 et seq or MCL 752.581 et seq as applicable.

This policy supersedes Board of Trustees Policy 12.2. Building Property Rules and Regulations dated August 7, 2014.

IV-G-b. 12.3. Rule Prohibiting Disruption of University Activities

It was moved by T. Woychowski, supported by L. Kennedy, and passed by voice vote without dissent, that the Board of Trustees amends policy 12.3. Rule Prohibiting Disruption of University Activities as presented herein.

The amended policy shall read as follows:

12.3 RULE PROHIBITING DISRUPTION OF UNIVERSITY ACTIVITIES

The citizens of Michigan have, through the constitutional autonomy clause, placed the governing authority of the public universities in elected or appointed boards. Within the framework of the law, these boards have in turn shared their power with both faculty and students, but by the same law the boards have the ultimate responsibility for the control and direction of the universities and must therefore retain the ultimate and final authority for control and direction.

Students enrolling in, persons employed by, or people visiting the Michigan Technological University do so voluntarily and in so doing assume an obligation to conduct themselves in a manner compatible with the University's function as an educational institution.
Michigan Technological University stands for freedom of speech, freedom of inquiry, freedom of dissent, and freedom to demonstrate in a peaceful manner. But freedom requires order, and it is not possible to have one without the other. The Board of Trustees therefore reaffirms the long-time understanding that any effort to impede the holding of classes, the carrying forward of University business, the arrangements for properly organized and scheduled events on the campus, the reasonable movement of vehicular or pedestrian traffic, or the discharge of responsibility by any University officer or employee, constitutes an invasion of the rights of the faculty, students, and the general public, is contrary to the interests of the University, and will not be tolerated.

In any such attempt to interfere with University activity, the leaders and participants are held responsible and are subject to appropriate legal and disciplinary action, including suspension and expulsion from the University, under established procedures.

In this reaffirmation of freedom with order, Michigan Technological University also pledges itself to maintain open channels of communication through which those who have grievances, suggestions, questions, or who are dissatisfied with the status quo may express themselves in a meaningful manner and through which they may bring about orderly change.

This Policy constitutes a Rule or Regulation pursuant to and enforceable (including the statutory maximum penalties) pursuant to Michigan Constitution 1963, Article 8, Section 6; MCL 19.141 et seq. MCL 390.363 et seq or MCL 752.581 et seq as applicable.

This policy supersedes Board of Trustees Policy 12.3. Rule Prohibiting Disruption of University Activities dated July 15, 2010.

IV-G-c. 12.4. Alcoholic Beverages

It was moved by T. Woychowski, supported by L. Kennedy, and passed by voice vote without dissent, that the Board of Trustees amends policy 12.4. Alcoholic Beverages as presented herein.

The amended policy shall read as follows:

12.4 ALCOHOLIC BEVERAGES

Michigan Technological University recognizes that clear evidence exists that the misuse and abuse of alcoholic beverages can erode the foundation of the University's goals and objectives and can diminish the attainment of intellectual, social, physical and moral growth and development. All University members are adults who will make personal choices about their use of alcohol, but those choices must not disrupt the living or learning environment of others.
It is the University's mission to influence alcohol related behavior when such behavior has a negative effect on any segment of the University community or violates any city, state, or federal law or ordinance. The University will attempt to provide, for all its community, educational activities and information concerning the responsible use of alcohol. The University will facilitate coordination of treatment services and the University will provide guidelines for responsible use of alcohol. Furthermore, neither this policy nor the University's consent to the use of alcoholic beverages at certain locations and under certain circumstances constitutes University sponsorship or approval of such use but reflects its desire to permit freedom of choice where such choice does not endanger life or violate existing law.

All federal, state, and local laws governing alcohol usage are applicable to all activities at Michigan Technological University.

Alcohol is not allowed to be advertised at official University events, nor advertised in official University publications.

Social events are to conform to recognized standards of good taste and conduct.

Possession and use of alcoholic or intoxicating beverages is prohibited except in the following circumstances:

1. At University-sponsored functions alcoholic beverages may be served to non-paying guests with the prior approval of the President.

2. The possession and use of alcoholic beverages is permitted for occasions and in facilities for which a valid liquor license has been obtained only in compliance with the license.

3. Occupants of residence halls and University apartments may possess and use alcohol in approved rooms if such persons are of legal drinking age.

4. The use of alcohol is permitted in Michigan Technological University courses, workshops or seminars when under the supervision of a professional staff member and the purpose is solely educational.

Those who violate federal, state or local laws while on University property, or at University sponsored events, and/or University rules regarding use, possession, sale or furnishing of alcohol to others are subject to disciplinary actions, up to and including dismissal or discharge.

This policy shall be administered in accordance with rules and procedures established by the President or designee.

This Policy constitutes a Rule or Regulation pursuant to and enforceable (including the statutory maximum penalties) pursuant to Michigan Constitution 1963, Article 8, Section 6; MCL 19.141 et seq. MCL 390.363 et seq or MCL 752.581 et seq as applicable.
This policy supersedes Board of Trustees Policy 12.4. Alcoholic Beverages dated July 15, 2010.

V. ACTION/DISCUSSION ITEMS

V-A. Employee Recognition

For our employees that have worked for Michigan Tech for 35 or more years and in recognition of their distinguished service and outstanding contributions to Michigan Tech, the Board would like to honor them with a resolution of appreciation.

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

1.) Thomas Snyder – 38 years of service
2.) Brian Aho – 36 years of service
V-A-1. Emeritus Rank

It was moved by L. Kennedy, supported by R. Jacquart, and passed by voice vote without dissent that the Board of Trustees approves the following emeritus appointment:

1.) Dr. Thomas P. Snyder, Professor Emeritus, Department of Biological Sciences

V-B. Appointments with Tenure

Dr. Chunpei Cai is being recommended for appointment as Associate Professor with tenure in the Department of Mechanical Engineering-Engineering Mechanics effective December 28, 2015. The recommendation for tenure has been endorsed by the Department and College of Engineering Promotion and Tenure Committees, the Department Chair, the Dean, the Provost, and the President.

It was moved by B. Ryan, supported by T. Woychowski, and passed by voice vote without dissent, that the Board of Trustees approves the appointment of Dr. Chunpei Cai as Associate Professor with tenure in the Department of Mechanical Engineering-Engineering Mechanics effective December 28, 2015.
Dr. LouAnn Wurst is being recommended for appointment as Professor with tenure in the Department of Social Sciences effective August 17, 2015. The recommendation for tenure as Professor has been endorsed by the Department and College of Science and Arts Promotion and Tenure Committees, the Department Chair, the Dean, the Provost, and the President.

It was moved by W. Johnson, supported by L. Kennedy, and passed by voice vote without dissent, that the Board of Trustees approves the appointment of Dr. LouAnn Wurst as Professor with tenure in the Department of Social Sciences effective August 17, 2015.

V-C. Honorary Degree

The Administration is recommending that Mr. Townsend H. Porter, Jr. be awarded an Honorary Doctorate of Philosophy degree.

After receiving his bachelor of engineering degree from Michigan Tech in 1968, Mr. Porter spent over 30 years at IBM. He patented the mechanics inside of the 3 ½ inch floppy disk that became the industry standard, and held various engineering, technology development, program management and executive positions throughout his distinguished career. While working as an engineer at IBM, Mr. Porter was responsible for approximately 20 inventions that culminated in the issuing of U.S. patents and internal technical disclosures.

After leaving IBM, Mr. Porter was Vice President of Engineering in the High Performance Storage Group of Western Digital Corporation, and then became the Chief Technological Officer and Executive Vice President for Seagate Technology Corporation, the largest disk drive company in the world. During his tenure at Seagate, Mr. Porter was responsible for the merging of the company’s six worldwide product design centers into three, the establishment of a 200-person Seagate Research Center, and expanded the number of products designed and produced.

Mr. Porter is currently enjoying running his family vineyard, Porter Family Vineyards, and will be the December 2015 Commencement speaker.

It was moved by R. Jacquart, supported by W. Johnson, and passed by voice vote without dissent, that the Board of Trustees approves the awarding of an Honorary Doctorate of Philosophy degree to Mr. Townsend H. Porter, Jr.

V-D. Committee Assignments

On behalf of the Board Chair, Vice Chair Ollila announced the following committee assignments.
These Committee assignments will become effective following the meeting.

It was moved by W. Johnson, supported by T. Baldini, and passed by voice vote without dissent, that the Board of Trustees appoints Brenda Ryan and Robert Jacquart to the Department of Defense Classified Contracts and Information Executive Committee effective January 1, 2017.

V-E. Appointment to the Michigan Tech Fund Board of Directors

It was moved by T. Baldini, supported by W. Johnson, and passed by voice vote without dissent, that the Board of Trustees appoints Julie Fream, Paul Ollila, and Terry Woychowski to the Michigan Tech Fund Board of Directors.

V-F. 12.7. Weapons Registration

It was moved by R. Jacquart, supported by W. Johnson, and passed by voice vote without dissent, that the Board of Trustees amends policy 12.7. Weapons Registration as presented herein.

The amended policy shall read as follows:

12.7. WEAPONS REGISTRATION

Students and employees of Michigan Technological University and visitors to the University are required to register all firearms (rifles, pistols, shotguns, including air or compressed gas guns), archery or hunting bows, any weapon where license is required by law, or any dangerous weapon, with the Director of Public Safety and Police Services prior to bringing
any such item onto University property or any property over which the University may have jurisdiction. Proof of such registration must be carried on the person of such student or employee or visitor while in possession of such an item on University property.

The possession or use of a loaded firearm, gun or archery or hunting bow on University property is prohibited except at the rifle range and designated archery or gun usage ranges and then only if such equipment is properly registered with the University. The possession of any explosive, excepting commonly accepted recreational sporting ammunition stored in designated weapons storage areas, in use at the rifle range, or in direct and rapid transit to or from these areas, is prohibited on University property except under the direction of a University employee as part of an authorized University course.

Except for the purpose of promptly transporting a properly registered firearm and/or its ammunition, bow, or other dangerous weapon directly to or from designated weapons storage areas, or the use of such items as part of an authorized University course activity, the possession of such an item in any University building is prohibited. Furthermore, the storage of any such item on University property in other than a designated weapons storage area is prohibited. Designated weapons storage areas are limited to the weapons storage rooms in the rifle range, the archery range, ROTC weapons storage facilities, along with such other areas as may be subsequently designated as weapons storage areas by the Director of Public Safety and Police Services. The possession or storage of any firearm, bow, other dangerous weapon, ammunition, or explosive is expressly prohibited in the Residence Halls and Michigan Tech Apartments.

Excepted from this policy are 22 caliber powder activated nail guns owned by the University when in the possession of or property stored by the University employee accountable for such tool or owned by any independent contractor of the University when in the possession of or properly stored by the Contractor in pursuance of the contractors work activity.

Sworn law enforcement officers actively employed by a local, state, or federal law enforcement agency that either permits or requires the officer to carry firearms (concealed or otherwise) while on and/or off duty are exempted from the Policy if they are carrying in compliance with their employer’s policy.

Any violation of this Policy may render the violator liable to disciplinary action, or expulsion, citation or arrest.

This Policy constitutes a Rule or Regulation pursuant to and enforceable (including the statutory maximum penalties) pursuant to Michigan Constitution 1963, Article 8, Section 6; MCL 19.141 et seq MCL 390.363 et seq or and MCL 752.581 et seq as applicable.

This policy supersedes Board of Trustees Policy 12.7. Weapons Registration dated July 15, 2010.
VI. INFORMATIONAL ITEMS
   A. Analysis of Investments
   B. University Issued Bond Balances
   C. Advancement Report
   D. Recent Media Coverage
   E. Employee Safety Statistics

VII. OTHER BUSINESS

There was no other business at this time.

VIII. PUBLIC COMMENTS

There were no comments at this time.

IX. ADJOURNMENT

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

_____________________________________
Secretary of the Board of Control

__________________________
Chair, Board of Control