

MINUTES OF THE MEETING
OF THE
MICHIGAN STATE UNIVERSITY
BOARD OF TRUSTEES

June 15, 2016

President Simon called the meeting of the Board of Trustees to order at 11:00 a.m. in the Board Room.

Trustees present: Brian Breslin, Dianne Byrum, Joel Ferguson, Melanie Foster, Mitch Lyons, Brian Mosallam, and Diann Woodard.

Trustee absent: George Perles

University officers present: President Simon, Provost and Executive Vice President Youatt, Executive Vice President Udpal, Vice President and Secretary Beekman, Vice President and General Counsel Noto, Vice Presidents Burnham, Gore, Groves, Haas, Maybank, Young, and Zecher, and Senior Advisor and Director Granberry Russell. Faculty liaisons present: John Bell, Martin Crimp, Mary Noel, and Mariam Sticklen. Student liaisons present: Mariah Hill, Dee Jordan, and Lorenzo Santavicca.

All actions taken were by unanimous vote of the Trustees present, unless otherwise noted.

1. On a motion by Trustee Ferguson, supported by Trustee Breslin, the **BOARD VOTED to approve** the agenda.
2. On a motion by Trustee Breslin, supported by Trustee Ferguson, the **BOARD VOTED to approve** the minutes of the April 17, 2015 Board of Trustees meeting.
3. President's Report

President Simon provided the following report to the Board.

A. Moment of Silence

President Simon asked for a moment of silence to reflect on the tragedy in Orlando, the loss of Suzanne Sipple, a valued employee at the Kellogg Biological Station, and the passing of Ron Mason.

B. Student Achievements

Fourteen MSU graduate students have been selected as National Science Foundation Graduate Research Fellows. An additional 20 received honorable mention. The NSF program is the country's oldest graduate fellowship program that directly supports graduate students in various STEM fields.

The MSU Formula SAE Racing Team ranked fifth out of 120 international teams at the annual Michigan International Speedway competition last month and was the second highest ranked American team.

C. Faculty and Alumni Achievements

TIME magazine named Dr. Mona Hanna-Attisha, director of the Michigan State University and Hurley Children's Hospital Pediatric Public Health Initiative, to the 2016 TIME 100; its annual list of the 100 most influential people in the world. Dr. Mona captured the 20th spot in the top 100 list.

TIME also named MAU Alumnus Eli Broad to the list for his work in business, philanthropy, and education.

University Distinguished Professor Lawrence Drzal has received the Medal of Excellence in Composite Materials, recognizing his outstanding achievements and contributions to the field of composite materials.

Wei Lai, an assistant professor of chemical engineering and materials science, has been awarded a five-year \$500,000 National Science Foundation Faculty Early Career Development Award, one of the NSF's most prestigious honors. This grant will allow Dr. Lai to explore sodium-based batteries.

MSU plant pathologist Joseph M. Vargas has been inducted into the Michigan Golf Hall of Fame for his research efforts to advance the industry of turf grass management.

Ved Gossain, MSU Swartz professor of medicine, received the Outstanding Clinical Endocrinologist Award from the American Association of Clinical Endocrinologists, given in recognition of exceptional knowledge and expertise in the field of clinical endocrinology and compassionate care provided to patients with endocrine diseases. Dr. Gossain established the Endocrinology

Fellowship Program at MSU and served as the program director from its inception in 2006 to 2013.

D. Staff Achievements

MSU has been honored by the Association for the Advancement of Sustainability in Higher Education for its sustainability achievements. MSU earned a silver rating from the Association.

MSU Culinary Services has been awarded silver in the residential dining concept category from the National Association of College and University Food Services for The Edge at Akers, which reopened its doors in January.

Out of 3,356 entries from 10 countries, MSU's Office of Communications and Brand Strategy (CABS) was one of just seven platinum award winners at the 2016 CASE Circle of Excellence Awards. CABS won four of the 83 total Gold awards handed out. All but one MSU submission won an award.

CABS also won seven bronze awards at the 37th annual Telly Awards, honoring the best film and video productions and online content in local, regional, and cable TV commercials and programs.

E. Athletic Achievements

Head football coach Mark Dantonio received the 2016 Gene Stallings Award in Dallas, Texas. The award honors college football head coaches who are humanitarians and strive to promote healthy, vibrant communities through charitable and community service efforts.

The Big Ten Conference announced the Academic All-Big Ten honorees for the 2016 spring sports season earlier this month, and 96 Michigan State student-athletes were honored across the Spartans' nine spring sports.

Sophomore Sarah Burnham has been named to the Women's Golf Coaches Association honorable mention All-America team after closing the season with the lowest scoring average (72.42) in school history.

MSU and USA Archery hosted the 2016 National Outdoor Collegiate Championships last month. Eight MSU archers finished in the top 10 in their respective divisions, among 295 archers competing. The

Spartan Archers came away with a total of one bronze medal, five silver medals, and one gold medal. Nine became All-Americans.

The President's Council on Fitness, Sports and Nutrition has selected archery Coach Glen Bennett to receive a 2016 President's Council on Fitness, Sports and Nutrition Community Leadership Award, given annually to individuals who improve the lives of others within their community by providing or enhancing opportunities to engage in sports, physical activities, and fitness and nutrition-related programs. Bennett runs the archery programs at MSU's Demmer Center and coaches the MSU Archery Team.

4. Personnel Actions

Provost Youatt presented the following personnel actions:

Rhodes, Jacqueline R, AY- Professor, Department of Writing, Rhetoric, and American Culture, \$100,000, with Tenure, effective August 16, 2016.

Cilano, Cara, AN - Professor, Department of English, \$151,222, with Tenure, effective July 1, 2016.

Peng, Taiquan, AY - Associate Professor, Department of Communication, \$90,000, with Tenure, effective August 16, 2016.

Thorson, Esther, AY - Professor, School of Journalism, \$150,000, with Tenure, effective August 16, 2016.

Hampton, Keith, AY - Professor, Department of Media and Information, \$135,000, with Tenure, effective August 16, 2016.

Ewoldsen, David, AY - Professor, Department of Media and Information, \$145,000, with Tenure, effective August 16, 2016.

Myers, Nicholas, AY - Associate Professor, Department of Kinesiology, \$94,500, with Tenure, effective August 16, 2016.

Rucker, Mark B, AY - Professor, College of Music, \$110,000, with Tenure, effective August 16, 2016.

McNamara, Allen, AY - Geological Sciences Professor, Department of Earth and Environmental Sciences, \$125,000, with Tenure, effective August 16, 2016.

Viens, Frederi, AY - Professor, Department of Statistics and Probability, \$150,000, with Tenure, effective August 16, 2016.

Croson, David, AY - Associate Professor, Department of Economics, \$160,000, with Tenure, effective August 16, 2016.

Croson, Rachel, AN - Dean, College of Social Science; MSU Foundation Professor, Department of Economics, \$385,000, with Tenure, effective August 1, 2016.

Anastos, Thomas A, AN - Head Coach- Hockey, Intercollegiate Athletics, Subject to Contract, effective July 1, 2019 to June 30, 2020.

Hollis, Mark J, AN - Director of Intercollegiate Athletics, Intercollegiate Athletics, Subject to Contract, effective July 1, 2020 to June 30, 2021.

Izzo, Thomas, AN - Head Coach-Men's Basketball, Intercollegiate Athletics, Subject to Contract, effective July 1, 2022 to June 30, 2023.

Rakan, Susan M (Suzy Merchant), AN - Head Coach- Women's Basketball, Intercollegiate Athletics, Subject to Contract, effective July 1, 2020 to June 30, 2021.

Chivukula, R Sekhar, AY - Associate Dean, College of Natural Science; Professor, Department of Physics and Astronomy, is changing title to Associate Provost for Undergraduate Education and Dean of Undergraduate Studies, Office of the Provost, and for a change in salary to \$250,000, effective August 16, 2016.

Trustee Ferguson **moved to approve** the recommendations, with support from Trustee Lyons.

THE BOARD VOTED to approve the resolution.

Provost Youatt presented the candidates for the awarding of tenure, effective July 1, 2015. (Appendix A)

Trustee Woodard **moved to approve** the recommendation, with support from Trustee Byrum.

THE BOARD VOTED to approve the resolution.

5. Gifts, Grants, and Contracts

Senior Associate Vice President Paul Hunt, on behalf of Vice President Hsu, presented the Gifts, Grants, and Contracts Report for the period March 18, 2016 through May 16, 2016. The report is a compilation of 389 gifts, grants and contracts plus 74 consignment/non-cash gifts, with a total value of \$98,727,915.

Trustee Breslin **moved to approve** the recommendation, with support from Trustee Mosallam.

THE BOARD VOTED to approve the resolution.

Senior Associate Vice President Hunt, on behalf of Vice President Hsu, introduced Gemma Reguera, Associate Professor of Microbiology and Molecular Genetics and Plant, Soil and Microbial Sciences in the College of Natural Science. Professor Reguera made a presentation to the Board on using microbes for waste processing. (Appendix B)

6. Finance Committee

Trustee Foster presented the Trustee Finance Committee Report and recommendations.

A. 2016-17 Budget Development Guidelines and 2017-18 Preliminary General Fund Budget Guidelines.

It was recommended that the Board of Trustees adopt the 2016-17 Budget Development Guidelines and 2017-18 Preliminary General Fund Budget Guidelines, which include revenue and expenditure totals and tuition fee rates for 2016-17 and 2017-18.

BE IT RESOLVED, the Board of Trustees adopts the 2016-17 Budget Development Guidelines (Budget Guidelines) and 2017-18 Preliminary Budget Guidelines (Preliminary Guidelines); and

BE IT FURTHER RESOLVED, that the Administration is directed to develop and implement the 2016-17 General Fund, MSU AgBioResearch, Michigan State University Extension, and Intercollegiate Athletics budgets in accordance with the Budget Guidelines and to develop the 2017-18 Budget Development Guidelines in accordance with the Preliminary Guidelines.

Trustee Foster **moved to approve** the recommendations, with support from Trustee Breslin

THE BOARD VOTED to approve the resolution.

B. Commercial Paper Reauthorization

It was recommended that the Board of Trustees authorize the issuance of Commercial Paper Notes, Series F, to replace its Series E Notes.

BE IT RESOLVED, that the Board of Trustees hereby adopts the Resolution of the Board of Trustees of Michigan State University Authorizing the Issuance and Delivery of Commercial Paper Notes, Series F, and providing for Other Matters Relating Thereto. (Appendix C)

Trustee Foster moved to approve the recommendation, with support from Trustee Ferguson.

THE BOARD VOTED to approve the resolution.

C. Authorization to Plan—Spartan Stadium—Install Permanent Field Lighting

It was recommended that the Board of Trustees authorize the Administration to plan for the installation of permanent lighting at Spartan Stadium.

BE IT RESOLVED, that the Board of Trustees of Michigan State University hereby authorizes the Administration to plan for the project entitled "Spartan Stadium—Install Permanent Field Lighting."

Trustee Foster **moved to approve** the recommendation, with support from Trustee Ferguson.

THE BOARD VOTED to approve the resolution.

D. Authorization to Plan—Ralph Young Track—Replace Field Hockey Playing Surface

It was recommended that the Board of Trustees authorize the Administration to plan for replacing the field hockey playing surface at the Ralph Young Track.

BE IT RESOLVED, that the Board of Trustees of Michigan State University hereby authorizes the Administration to plan for the project entitled "Ralph Young Track—Replace Field Hockey Playing Surface."

Trustee Foster **moved to approve** the recommendation, with support from Trustee Lyons.

THE BOARD VOTED to approve the resolution.

E. Authorization to Plan—International Center—Revitalization

It was recommended that the Board of Trustees authorize the Administration to plan for the revitalization of selected areas of the International Center to enhance the hospitality and retail experience provided to students, employees, and visitors and to increase the utilization of this centrally-located resource as a collaborative engagement space on campus.

BE IT RESOLVED, that the Board of Trustees of Michigan State University hereby authorizes the Administration to plan for the project entitled "International Center—Revitalization".

Trustee Foster **moved to approve** the recommendation, with support from Trustee Ferguson.

THE BOARD VOTED to approve the resolution.

7. Policy Committee

Trustee Byrum presented the Trustee Policy Committee Report and recommendations.

A. Approval of Revisions to the Standards of Official Conduct for Senior University Administrators

It was recommended that the Board of Trustees approve revisions to the Standards of Official Conduct for Senior University Administrators to expand the categories of administrative positions governed by the policy.

BE IT RESOLVED, that the Board of Trustees hereby approves revisions to the Standards of Official Conduct for Senior University Administrators. (Appendix D)

Trustee Byrum **moved to approve** the recommendation, with support from Trustee Mosallam.

THE BOARD VOTED to approve the resolution.

B. Approval of Contract Terms

It was recommended that the Board of Trustees approve a contract between Michigan State University and *Black Pine Engineering, LLC*, a company in which faculty members Dr. Norbert H. Mueller, Teaching Assistants Blake Gower and Thomas Qualman, and Research Assistant Andrew VanderKlok hold a financial interest.

BE IT RESOLVED, that the Board of Trustees of Michigan State University hereby approves an option extension agreement with *Black Pine Engineering, LLC*, consistent with earlier public notice given at a Board meeting and with an "Option Extension Agreement Term Sheet" presented to the Board. (Appendix E)

It was recommended that the Board of Trustees approve a contract between Michigan State University and *Cultural Intelligence Center, LLC*, a company in which faculty member Dr. Linnea Van Dyne holds a financial interest.

BE IT RESOLVED, that the Board of Trustees of Michigan State University hereby approves a professional services contract with *Cultural Intelligence Center, LLC*, consistent with earlier public notice given at a Board meeting and with a "Professional Services Contract Term Sheet" presented to the Board. (Appendix F)

It was recommended that the Board of Trustees approve a contract between Michigan State University and *Life Blood Corp.*, a company in which faculty members Dr. Eric Robert Eggenberger, a Professor in the Department of Neurology and Ophthalmology, and Dr. Dana Spence, an Associate Professor in the Department of Chemistry, and Drs. Suzanne Summers and Sara Lockwood, both Research Associates in the Department of Chemistry, hold a financial interest.

BE IT RESOLVED, that the Board of Trustees of Michigan State University hereby approves an exclusive license agreement with *Life Blood Corp.*; consistent with earlier public notice given at a Board meeting and with the "Exclusive License Agreement Term Sheet" presented to the Board. (Appendix G)

It was recommended that the Board of Trustees approve a contract between Michigan State University and *MTBISense, LLC*, a company in which faculty members Dr. Gary Blanchard and Dr. Marcos Dantus hold a financial interest.

BE IT RESOLVED, that the Board of Trustees of Michigan State University hereby approves a license agreement with *MTBISense, LLC*, consistent with earlier public notice given at a Board meeting and with the "License Agreement Term Sheet" presented to the Board. (Appendix H)

It was recommended that the Board of Trustees approve a contract between Michigan State University and *Turbo Ventures 2, LLC*, a company in which faculty member Dr. Norbert Mueller holds a financial interest.

BE IT RESOLVED, that the Board of Trustees of Michigan State University hereby approves a purchase agreement with *Turbo Ventures 2, LLC*, consistent with earlier public notice given at a Board meeting and with a "Purchase Agreement Term Sheet" presented to the Board. (Appendix I)

Trustee Byrum **moved to approve** the recommendations, with support from Trustee Lyons.

THE BOARD VOTED to approve the resolutions.

G. Notice of Intent to Negotiate Contracts

Pursuant to State law, Trustee Byrum gave public notice of the University's intent to negotiate contracts with *FibrosiX, LLC*, a Michigan limited liability company. Dr. Richard R. Neubig, a Professor and Chair of the Department of Pharmacology and Toxicology, and members of his family have, or have options to buy, an interest in the company.

Pursuant to State law, Trustee Byrum gave public notice of the University's intent to negotiate contracts with *NewCo, LLC*, a Delaware limited liability company. Dr. Ramakrishna Mukkamala, a Professor in the Department of Electrical and Computer Engineering, and members of his family have, or have options to buy, an interest in the company.

Pursuant to State law, Trustee Byrum gave public notice of the University's intent to negotiate contracts with *TD Customs, LLC*, a

Michigan limited liability company. Mr. Thomas D'Ambrosio, a Labor Aide in the Department of Forestry, and members of his family have, or have options to buy, an interest in the company.

8. Trustee Comments

Trustee Ferguson recalled the strength of Ron Mason's character, as well as his skill as a hockey coach, and said that he will be missed at Michigan State.

Trustee Woodard gave her condolences to the family and friends of Ron Mason.

Trustee Mosallam spoke of the legacy of Ron Mason and gave his condolences to the Mason Family. Trustee Mosallam also spoke of the consideration that the Board gives to the yearly budget.

Trustee Foster said that Ron Mason will be missed by the MSU community. She also thanked Martin Crimp for serving as a faculty liaison to the Board.

Trustee Byrum extended her condolences to the Mason family and spoke of the importance of land-grant values at Michigan State. Additionally, she thanked faculty liaisons Martin Crimp, Mary Noel, and Jon Bell for their service.

Trustee Breslin extended his condolences to the Mason family. He thanked the Administration for its efforts on the budget, and said that he appreciated the efforts of ASMSU and COGS on behalf of the student body. Additionally, he thanked Dan Bollman and Stacy Nerenberg for their work on maintaining the cleanliness of water on campus.

Trustee Lyons gave his condolences to the Mason family and spoke of Ron Mason's impact on Michigan State.

9. There was no Public Participation on Issues Not Germane to the Agenda.

10. Request to Adjourn

On a motion by Trustee Ferguson, supported by Trustee Woodard, **THE BOARD VOTED to adjourn** at 1:00 p.m.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "W Beekman". The signature is written in a cursive, flowing style.

William R. Beekman

Vice President and Secretary of the Board of Trustees

MICHIGAN STATE UNIVERSITY

The following actions which include the award of tenure are recommended to be effective July 1, 2016

Promotion to Associate Professor, Effective July 1, 2016

10002000 - COLLEGE OF AGRICULTURE & NAT RESOURCES

Name	Organization Name	Tenure Department	Also Reports To Organization Name(s)
Liu, Yan	BIOSYSTEMS AND AGRICULTURAL ENGINEERING	BIOSYSTEMS AND AGRICULTURAL ENGINEERING	BIOSYSTEMS AG ENGINEERING MABR
Schmitt Olabisi, Laura Kathryn	DEPARTMENT OF COMMUNITY SUSTAINABILITY	DEPARTMENT OF COMMUNITY SUSTAINABILITY	ENVIRONMENTAL SCIENCE AND POLICY PROGRAM

10004000 - COLLEGE OF ARTS AND LETTERS

Name	Organization Name	Tenure Department	Also Reports To Organization Name(s)
Gao, Xia	ART ART HISTORY AND DESIGN	ART ART HISTORY AND DESIGN	
Eswaran Pillai, Swarnavel	ENGLISH	ENGLISH	DEPARTMENT OF MEDIA AND INFORMATION
Chakrani, Brahim	LINGUISTICS,GERM,SLAVIC,ASIAN,AFR LANG	LINGUISTICS,GERM,SLAVIC,ASIAN,AFR LANG	
Vanwieren, Gretel A	RELIGIOUS STUDIES	RELIGIOUS STUDIES	PHILOSOPHY
Traister, Christina M	THEATRE	THEATRE	

10008000 - ELI BROAD COLLEGE OF BUSINESS

Name	Organization Name	Tenure Department	Also Reports To Organization Name(s)
Jacobs, Brian W	DEPARTMENT OF SUPPLY CHAIN MANAGEMENT	DEPARTMENT OF SUPPLY CHAIN MANAGEMENT	
Bolumole, Yemisi Awujo	DEPARTMENT OF SUPPLY CHAIN MANAGEMENT	DEPARTMENT OF SUPPLY CHAIN MANAGEMENT	

10010000 - COLLEGE OF COMMUNICATION ARTS SCIENCES

Name	Organization Name	Tenure Department	Also Reports To Organization Name(s)
Van Der Heide, Brandon Lee	COMMUNICATION	COMMUNICATION	
Dilley, Laura	COMMUNICATIVE SCIENCES DISORDERS CAS	COMMUNICATIVE SCIENCES DISORDERS CAS	

10014000 - COLLEGE OF EDUCATION

Name	Organization Name	Tenure Department	Also Reports To Organization Name(s)
Plavnick, Joshua	COUNSELING, EDUC PSYCH & SPEC EDUC	COUNSELING, EDUC PSYCH & SPEC EDUC	
Greenhow, Christine M	COUNSELING, EDUC PSYCH & SPEC EDUC	COUNSELING, EDUC PSYCH & SPEC EDUC	
Kagerer, Florian A	KINESIOLOGY - ED	KINESIOLOGY - ED	

10016000 - COLLEGE OF ENGINEERING

Name	Organization Name	Tenure Department	Also Reports To Organization Name(s)
Lunt, Richard Royal	CHEMICAL ENGINEERING & MATERIALS SCIENCE	CHEMICAL ENGINEERING & MATERIALS SCIENCE	
Lal, Wei	CHEMICAL ENGINEERING & MATERIALS SCIENCE	CHEMICAL ENGINEERING & MATERIALS SCIENCE	

10022000 - COLLEGE OF HUMAN MEDICINE

Name	Organization Name	Tenure Department	Also Reports To Organization Name(s)
Ralston, Amy Cherie	BIOCHEMISTRY & MOLECULAR BIOLOGY CHM	BIOCHEMISTRY & MOLECULAR BIOLOGY CHM	BIOCHEMISTRY & MOLECULAR BIOLOGY CNS

10024000 - JAMES MADISON COLLEGE

MSU is an affirmative-action, equal-opportunity employer.

**MICHIGAN STATE
UNIVERSITY**

The following actions which include the award of tenure are recommended to be effective July 1, 2016

Promotion to Associate Professor, Effective July 1, 2016

Name	Organization Name	Tenure Department	Also Reports To Organization Name(s)
Goett, Jennifer A	JAMES MADISON COLLEGE DEAN	JAMES MADISON COLLEGE DEAN	

10028000 - LYMAN BRIGGS COLLEGE

Name	Organization Name	Tenure Department	Also Reports To Organization Name(s)
Valles, Sean A	LYMAN BRIGGS DEAN	LYMAN BRIGGS DEAN	PHILOSOPHY
Waddell, Mark Andrew	LYMAN BRIGGS DEAN	LYMAN BRIGGS DEAN	HISTORY

10030000 - COLLEGE OF MUSIC

Name	Organization Name	Tenure Department	Also Reports To Organization Name(s)
Rivera, Diego H	MUSIC	MUSIC	

10032000 - COLLEGE OF NATURAL SCIENCE

Name	Organization Name	Tenure Department	Also Reports To Organization Name(s)
Takahashi, Hideki	BIOCHEMISTRY & MOLECULAR BIOLOGY CNS	BIOCHEMISTRY & MOLECULAR BIOLOGY CNS	BIOCHEMISTRY MOLECULAR BIO MABR
Levin, Aaron D	MATHEMATICS	MATHEMATICS	
Cheng, Yingda	MATHEMATICS	MATHEMATICS	
Farre, Eva Maria	PLANT BIOLOGY CNS	PLANT BIOLOGY CNS	
Brudvig, Lars Andrew	PLANT BIOLOGY CNS	PLANT BIOLOGY CNS	

10038000 - COLLEGE OF SOCIAL SCIENCE

Name	Organization Name	Tenure Department	Also Reports To Organization Name(s)
Tetreault, Chantal M	ANTHROPOLOGY SOCIAL SCIENCE	ANTHROPOLOGY SOCIAL SCIENCE	
Wheat, John David	HISTORY	HISTORY	
Juenke, Eric J	POLITICAL SCIENCE	POLITICAL SCIENCE	
Smidt, Corwin Donald	POLITICAL SCIENCE	POLITICAL SCIENCE	
Neal, Zachary P	PSYCHOLOGY SOCIAL SCIENCE	PSYCHOLOGY SOCIAL SCIENCE	GLOBAL URBAN STUDIES
Horner, Pilar S	SOCIAL WORK	SOCIAL WORK	JULIAN SAMORA RESEARCH INSTITUTE
Velez Ortiz, Daniel	SOCIAL WORK	SOCIAL WORK	JULIAN SAMORA RESEARCH INSTITUTE

MICHIGAN STATE
UNIVERSITY

The following actions which include the award of tenure are recommended to be effective July 1, 2016

Associate Professors Who Acquire Tenure with the Reappointment, Effective July 1, 2016

10010000 - COLLEGE OF COMMUNICATION ARTS SCIENCES

Name	Organization Name	Tenure Department	Also Reports To Organization Name(s)
Hunter, Eric James	COMMUNICATIVE SCIENCES DISORDERS CAS	COMMUNICATIVE SCIENCES DISORDERS CAS	

10016000 - COLLEGE OF ENGINEERING

Name	Organization Name	Tenure Department	Also Reports To Organization Name(s)
Qi, Yue	CHEMICAL ENGINEERING & MATERIALS SCIENCE	CHEMICAL ENGINEERING & MATERIALS SCIENCE	

10030000 - COLLEGE OF MUSIC

Name	Organization Name	Tenure Department	Also Reports To Organization Name(s)
Wagner, Corbin	MUSIC	MUSIC	

10038000 - COLLEGE OF SOCIAL SCIENCE

Name	Organization Name	Tenure Department	Also Reports To Organization Name(s)
Wrobel, Gabriel David	ANTHROPOLOGY SOCIAL SCIENCE	ANTHROPOLOGY SOCIAL SCIENCE	

**RESEARCH
PRESENTATION
TO THE MSU BOARD OF TRUSTEES**

JUNE 15, 2016

GEMMA REGUERA

**COLLEGE OF NATURAL SCIENCE
COLLEGE OF AGRICULTURE AND
NATURAL RESOURCES**

Facilitated by the Office of the Vice President for
Research and Graduate Studies

Gemma Reguera is an associate professor in the departments of Microbiology and Molecular Genetics (CNS) and Plant, Soil, and Microbial Science (CANR) at Michigan State University. She is an environmental microbiologist and holds Ph.D.s in Microbiology from the University of Massachusetts at Amherst and from the University of Oviedo (Spain). She became a Spartan in 2006 after postdoctoral training at Harvard Medical School and the University of Massachusetts at Amherst. Her research focuses on investigating the energy conversion reactions catalyzed by microorganisms in natural and anthropogenic systems. Her interests go beyond the basic research and seek to develop sustainable technologies that harness the natural processes for bioenergy and bioremediation applications. Reguera recently received the Innovator of the Year award from MSU Technologies, for her work with byproducts from waste via microbial electrochemical reactors. Her lab continues to work on harnessing technologies for the remediation of environments impacted by toxic metals and energy recovery from agricultural and industrial wastes. Today she will give us a brief overview of her lab's research and possible applications.



Microbes to power! *Gemma Reguera*

Microbiology and Molecular Genetics (CNS)
Plant, Soil, and Microbial Sciences (CANR)



MICHIGAN STATE UNIVERSITY

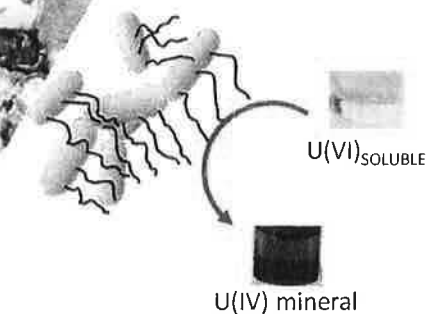
A world of waste



Even nuclear waste!



Uranium is soluble and spreads fast



Even nuclear waste!

MICHIGAN STATE UNIVERSITY

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Environment: Science & Technology

Published: Sept. 12, 2014

BOOSTING ARMOR FOR NUCLEAR-WASTE EATING MICROBES

Geneticists found a way to boost the armor of a microbe developed to clean up nuclear waste and patented by a

Click to ENLARGE

Cleaning up human wastes



BILL & MELINDA
GATES foundation

Water: Science Solving Problems

ECS program addresses world sanitation problems

In its first "Science for Solving Society's Problems Challenge," ECS partnered with the Bill & Melinda Gates Foundation to leverage the brilliance of the many scientists in electrochemistry and solid state science and technology that regularly attend ECS meetings. The four grantees were identified during a multi-day workshop at the Electrochemical Energy and Water Summit in Mexico held October 2014.



human urine

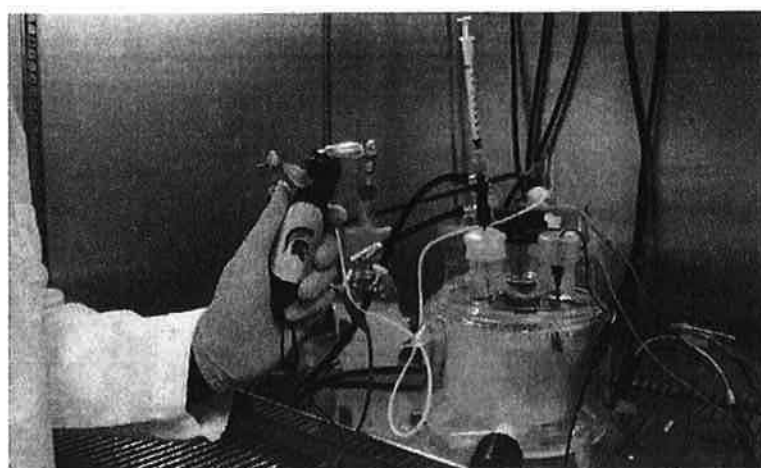


ethanol



clean water
electricity

Microbes to power



APPENDIX C

RESOLUTION OF THE BOARD OF TRUSTEES OF MICHIGAN STATE UNIVERSITY AUTHORIZING THE ISSUANCE AND DELIVERY OF COMMERCIAL PAPER NOTES, SERIES F, AND PROVIDING FOR OTHER MATTERS RELATING THERETO

WHEREAS, the Board of Trustees of Michigan State University (the “Board”) is a body corporate created by and existing under the Constitution of the State of Michigan of 1963 with full constitutional authority over and general supervision of Michigan State University (the “University”) and control and direction of all expenditures from the University’s funds; and

WHEREAS, the Board has determined that financing capital projects of the University with the proceeds of tax-exempt or taxable debt, or both, will enhance the flexibility of the University with respect to its budget and financial resources, and will permit the allocation of the costs of the capital projects to the periods of the useful lives of the projects being acquired; and

WHEREAS, the University’s current high credit ratings not only reflect the financial strength of the University and its ability to repay its debt obligations, but will also permit the University to access public debt markets in the most efficient and economic manner; and

WHEREAS, the Board has determined it is necessary and desirable to provide for the temporary or permanent financing of capital projects of the University, currently under way or to be undertaken, through the issuance of Board of Trustees of Michigan State University Commercial Paper Notes, Series F (Tax-Exempt) (the “Series F Notes”) and the continuation of the issuance of the previously authorized Board of Trustees of Michigan State University Commercial Paper Notes, Series B (Taxable) (the “Series B Notes,” and collectively with the Series F Notes, the “Notes”) in an aggregate principal amount such that the Notes outstanding from time to time shall not exceed \$250,000,000; and

WHEREAS, the Board has determined it is necessary and appropriate to refund all or part of the outstanding notes of the Board’s Commercial Paper Notes, Series E (Tax-Exempt) (the “Series E Notes”) and all or part of the outstanding Series B Notes (such notes to be refunded to be selected by an Authorized Officer (as hereinafter defined) and being herein called the “Notes to be Refunded”), and that it may be economic and appropriate to refund certain other outstanding debt obligations of the Board (such debt obligations, if any, to be refunded to be selected by an Authorized Officer and being herein called the “Bonds to be Refunded”); and

WHEREAS, the Board has approved certain capital projects to be financed and refinanced in whole or in part through the issuance of the Notes, as set forth on Exhibit A hereto, and may approve additional projects to be so financed (all such projects being herein called the “Projects”); and

WHEREAS, in order to provide for the issuance of the Series F Notes, it will be necessary for the President, the Vice President for Finance and Treasurer and the Director of Treasury and Financial Management (each an “Authorized Officer”), or any one of them individually, to execute and deliver one or more Commercial Paper Issuance Certificates (collectively, the “Issuance Certificate”), one or more Commercial Paper Issuing and Paying Agent Agreements (collectively,

the "Paying Agent Agreement") with a bank or banks to be selected by an Authorized Officer, one or more Dealer Agreements (each a "Dealer Agreement") with a dealer or dealers (collectively, the "Dealer") to be designated by an Authorized Officer, and, if deemed appropriate by an Authorized Officer, an agreement or agreements relating to a liquidity or credit/liquidity facility; and

WHEREAS, the Series F Notes are to be limited and not general obligations of the Board, payable from and secured by a pledge of General Revenues (as shall be defined in the Issuance Certificate in a manner generally consistent with the definition thereof set forth in the Commercial Paper Issuance Certificate pursuant to which the Series E Notes were issued) and moneys from time to time on deposit in the Note Payment Fund or Funds to be created pursuant to the Issuance Certificate, and may be additionally payable from Available Investments (as shall be defined in the Issuance Certificate in a manner generally consistent with the definition thereof set forth in the Commercial Paper Issuance Certificate pursuant to which the Series E Notes were issued); and

WHEREAS, it is necessary for the Board to delegate to each of the Authorized Officers the power to designate certain Authorized Representatives and Authorized Persons (each as shall be defined in the Issuance Certificate or Paying Agent Agreement) to undertake certain actions with respect to the issuance of the Series F Notes; and

WHEREAS, the Series F Notes are to finally mature on or before the date five years after the date of issuance of the first Series F Notes hereunder, and are intended (to the extent not previously retired) to be replaced by permanent General Revenue financing on or prior to such final maturity date; and

WHEREAS, it is necessary to extend the date on which the Series B Notes are to finally mature; and

WHEREAS, in the exercise of its constitutional duties, and in order to prudently control and direct expenditures from the University's funds, the Board determines it is necessary and desirable to authorize the issuance of the Notes to provide funds to finance and refinance all or part of the costs of the Projects, to refund the Notes to be Refunded and the Bonds to be Refunded, if any, and to pay certain costs incurred in connection with the issuance and sale of the Series F Notes and the refunding; and

WHEREAS, in order to be able to market and remarket the Notes, it is necessary for the Board to authorize an Authorized Officer to prepare, execute and deliver, on behalf of the Board, one or more Offering Memoranda (collectively, and as supplemented from time to time, the "Offering Memorandum") to be circulated and used in connection with the marketing, sale and delivery of the Notes, and to take, together with other appropriate officers, agents and representatives of the Board or the University, additional actions necessary to accomplish the sale and delivery of the Notes, the administration of the commercial paper program of which the Notes are a part, and the purposes hereof, all within the limitations set forth herein; and

WHEREAS, the financing and refinancing of the Projects and the refunding of the Notes to be Refunded and the Bonds to be Refunded, if any, will serve proper and appropriate public purposes; and

WHEREAS, the Board has full power under its constitutional authority for supervision of the University, and control and direction of expenditures from the University's funds, to authorize and acquire the Projects, to refund the Notes to be Refunded and the Bonds to be Refunded, if any, to finance and refinance by the issuance of the Notes the costs of the Projects, the costs of the refunding and the costs related to the issuance of the Notes and the refunding, and to pledge the General Revenues of the University for payment of the Series F Notes and to covenant to pay the Series F Notes from Available Investments.

NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF TRUSTEES OF MICHIGAN STATE UNIVERSITY, AS FOLLOWS:

1. The Board hereby authorizes the issuance, execution and delivery of the Series F Notes of the Board, in multiple issuances on various dates, to be designated BOARD OF TRUSTEES OF MICHIGAN STATE UNIVERSITY COMMERCIAL PAPER NOTES, SERIES F, with additional or alternative series designations, as shall be determined appropriate by an Authorized Officer, in the aggregate principal amount outstanding from time to time as shall be designated by any one of the Authorized Officers, but, together with the Series B Notes, not in excess of \$250,000,000 outstanding from time to time, to be dated as of a date of issuance of each Series F Note, or otherwise as shall be determined by an Authorized Officer, for the purpose of (a) financing and refinancing all or part of the costs of the Projects, (b) refunding all or a portion of the Series B Notes and the Series E Notes, as shall be determined by an Authorized Officer, (c) refunding the Bonds to be Refunded, if any, as shall be determined by an Authorized Officer, and (d) paying all or part of the costs incidental to the issuance of the Series F Notes and the refunding. The Projects as a whole are hereby determined by the Board to constitute a single governmental purpose of the Board. The Series F Notes shall not be subject to redemption prior to maturity. Each Series F Note shall mature not later than 270 days after its date of issuance, determined as shall be provided in the Issuance Certificate and Paying Agent Agreement, and all Series F Notes must mature on or before the date five years after the date of issuance of the first Series F Notes hereunder. Interest on each Series F Note shall be payable on the maturity date thereof, at the rate, not in excess of 10% per annum, determined as shall be provided in the Issuance Certificate and Paying Agent Agreement. The Series F Notes shall be issued in fully registered form in the denominations, shall be subject to transfer and exchange, and shall be executed and authenticated, all as shall be provided in the Issuance Certificate. The Series F Notes shall be sold at par through the Dealer or Dealers selected by an Authorized Officer, as shall be provided in the Dealer Agreement.

Each Series B Note shall mature not later than 270 days after its date of issuance, determined as shall be provided in the Commercial Paper Issuance Certificate and the Commercial Paper Issuing and Paying Agent Agreement applicable thereto, and all Series B Notes must mature on or before December 31, 2021.

2. The Series F Notes shall be limited and not general obligations of the Board payable from and equally and ratably secured by a lien on General Revenues on a parity basis with the lien on General Revenues securing the Board's outstanding General Revenue bonds, notes and other obligations secured by a first lien on General Revenues, now or hereafter outstanding, and by a lien on moneys from time to time on deposit in the Note Payment Fund or Funds to be created pursuant to the Issuance Certificate, as shall be provided therein. The Series F Notes may also be payable from Available Investments, as may be provided in the Issuance Certificate.

In support of its obligation to repay the Notes, the Board may, if deemed appropriate by an Authorized Officer, enter into one or more letters of credit, lines of credit, note purchase agreements or other liquidity or credit/liquidity facilities (collectively, the "Liquidity Facility"). Any reimbursement obligation (including interest) for draws under the Liquidity Facility shall be a limited and not general obligation of the Board, payable from General Revenues, and may be secured by a parity or subordinate pledge of General Revenues. The Authorized Officers are, and any one of them is, authorized to negotiate, execute and deliver, for and on behalf of the Board, such agreement or agreements (collectively, the "Liquidity Agreement") as an Authorized Officer may deem appropriate to acquire the Liquidity Facility and to provide for the repayment of draws thereunder, as provided herein.

No recourse shall be had for the payment of the principal amount of or interest on the Series F Notes, or under any Liquidity Agreement, or any claim based thereon, against the State of Michigan or against any member, officer or agent of the Board or of the University, as individuals, either directly or indirectly or, except as shall be provided in the Issuance Certificate and the Liquidity Agreement, if any, against the Board, nor shall the Series F Notes and interest with respect thereto or the obligations under any Liquidity Agreement become a lien on or be secured by any property, real, personal or mixed of the State of Michigan, the Board or the University, other than the General Revenues and the moneys from time to time on deposit in the Note Payment Fund or Funds to be created by the Issuance Certificate.

3. The right is reserved to issue additional bonds, notes or other obligations payable from General Revenues and secured on a parity or subordinated basis with the Notes and other General Revenue bonds, notes and other obligations by a lien on General Revenues, upon compliance with terms and conditions therefor as shall be set forth in the Issuance Certificate.

4. The Authorized Officers are, and any one of them is, hereby authorized and directed, in the name of the Board and as its corporate act and deed, to negotiate, execute and deliver the Issuance Certificate, the Paying Agent Agreement and one or more Dealer Agreements, consistent with the terms of this Resolution, as the Authorized Officer or Officers executing the same shall approve, which approval shall be conclusively evidenced by the execution of the respective documents. The Authorized Officers are, and any one of them is, hereby further authorized to execute and deliver any amendments to the Commercial Paper Issuance Certificate, the Commercial Paper Issuing and Paying Agent Agreement and the Dealer Agreement entered into in connection with the issuance of the Series B Notes as may be necessary for the refunding of the Notes to be Refunded and the issuance of the Series F Notes, and to extend the date on which the Series B Notes are to finally mature as herein provided, and otherwise to reflect the terms hereof.

5. The Authorized Officers are, and any one of them is, hereby authorized and directed to designate employees or agents of the Board or the University to act as Authorized Representatives with respect to the issuance of Series F Notes, and to designate Authorized Persons, who may be employees or agents of the Board or the University or employees or agents of the Dealer, to take certain actions with respect to the issuance of Series F Notes, all as shall be provided in the Issuance Certificate, the Paying Agent Agreement or any Dealer Agreement.

6. The President of the University and the Vice President for Finance and Treasurer are, and either one of them is, hereby authorized, empowered and directed, in the name and on behalf of the Board, and as its corporate act and deed, to execute the Series F Notes by manual or facsimile signature and to deliver the Series F Notes to the purchaser in exchange for the purchase price thereof, as shall be provided in the Issuance Certificate and the Paying Agent Agreement. The Series F Notes may be issued in the form of one or more Master Notes, as shall be provided in the Paying Agent Agreement.

7. The Authorized Officers are, and any one of them is, hereby authorized to cause to be prepared and circulated the Offering Memorandum with respect to the Notes, and to update, or cause to be updated, the Offering Memorandum, through supplements or otherwise, as an Authorized Officer shall deem appropriate, or as may be required by law. Any Dealer is authorized to circulate and use, in accordance with applicable law, the Offering Memorandum, as the same may have been updated or supplemented from time to time, in the offering, sale and delivery of the Notes.

8. The Authorized Officers are, and any one of them is, hereby authorized to select the portions, if any, of the Series B Notes and the Series E Notes and of the Board's outstanding bonds referred to in the preambles hereto as the "Notes to be Refunded" and "Bonds to be Refunded," respectively, and to provide for the call for redemption of such bonds, and to take any and all actions necessary and appropriate to provide for the payment when due of all amounts with respect to the Notes to be Refunded and the Bonds to be Refunded from the proceeds of the Series F Notes or other authorized debt obligations of the Board, or from other available funds of the University. All Series E Notes not refunded from the proceeds of the Series F Notes or other authorized debt obligations of the Board must be retired from other available funds of the University within 90 days of the first issuance of any Series F Notes.

9. The President, the Vice President for Finance and Treasurer, the Director of Treasury and Financial Management, the Secretary of the Board, the Vice President for Legal Affairs and General Counsel and any Associate or Assistant General Counsel, and all other appropriate officers or representatives of the Board or the University and each one of them are authorized to perform all acts and deeds and to execute and deliver for and on behalf of the Board all instruments and documents required by this Resolution or the documents authorized hereby (including a Letter or Letters of Representations among the Board, The Depository Trust Company and other necessary entities), or necessary, expedient and proper in connection with the issuance, sale and delivery of the Series F Notes and the administration of the financing program represented by the Notes, from time to time, all as contemplated hereby or in connection with subsequent elections, approvals or determinations under the Issuance Certificate or other documents. Any

reference to an officer of the Board or the University herein shall include any interim or acting officer appointed by the Board.

10. All resolutions or parts of resolutions or other proceedings of the Board in conflict herewith are hereby repealed insofar as any such conflict exists.

EXHIBIT A

PROJECTS

The Projects, as that term is used in the Resolution to which this Exhibit A is attached, include the following:

Category I

<u>Project Description</u>	Currently Estimated Approximate Cost To Be Funded From Note Proceeds (exclusive of issuance expense) <u>(millions)</u>
A. (Board approved project construction/renovation)	
1855 Place (Formerly State Police Post Redevelopment)	\$41.7
Grand Rapids - Real Estate and Research Facility Development	30.2
Breslin Student Events Center - Facility Upgrades	23.3
B. (Board approved project planning and design)	

Category II

All projects heretofore or hereafter approved by the Board with an identified total or partial funding source as the proceeds of bonds, the Notes or other debt obligations issued by the Board.

Category III

Miscellaneous building, renovation, remodeling, site improvement, equipment, utility, information system and similar capital projects of the University, each with an estimated cost of \$5,000,000 or less, including but not limited to, roof repairs and replacements; electrical, mechanical, chiller, refrigeration and steam system renovations, repairs, replacements and improvements; heating, cooling and air conditioning system renovations, repairs, replacements and improvements; structural repairs and improvements; utility distribution repairs and improvements; road and sidewalk repairs and improvements; building and building addition construction, renovation, furnishing and equipping; information and computing system acquisitions and improvements (including wiring and cabling); elevator repairs and improvements; miscellaneous landscaping and site work; and miscellaneous equipment acquisitions.

I hereby certify that the attached is a true and complete copy of a resolution adopted by the Board of Trustees of Michigan State University on June 17, 2016, in accordance with applicable law, and that the minutes of the meeting at which the resolution was adopted were kept and will be or have been made available at the Office of the Vice President and Secretary of the Board of Trustees of Michigan State University.

I further certify as follows:

1. Present at the meeting were the following Board members:

2. Absent from the meeting were the following Board members:

3. The following members of the Board voted for the adoption of the Resolution:

4. The following members of the Board voted against adoption of the Resolution:

RESOLUTION DECLARED ADOPTED.

Vice President and Secretary
Board of Trustees of Michigan State University

MICHIGAN STATE
UNIVERSITY

March 11, 2016

MEMORANDUM

TO: Trustee Finance Committee

FROM: Mark P. Haas, Vice President for Finance and Treasurer

Mark P. Haas

SUBJECT: Commercial Paper Reauthorization

The Board of Trustees has authorized a \$250 million Commercial Paper (CP) program. The CP program is primarily used as short-term financing for Board approved projects that are (1) being funded by gift pledges and (2) approved subsequent to the Board's last long-term financing authorization. The CP program currently consists of two series of notes: taxable Series B Notes and tax-exempt Series E Notes.

To maintain the tax-exempt status of a series of notes, the issuance of new tax-exempt notes for any series is limited to an 18-month period following the original issue date of such series. As a result, the Board is periodically asked to authorize a new series of tax-exempt notes to allow MSU to issue new tax-exempt CP. The commercial paper resolution that will be presented at the June 17, 2016 Board meeting seeks Board approval to authorize the issuance of tax-exempt Series F Notes, which will replace the Series E Notes. The resolution also allows for the continuation of the taxable Series B Notes and provides various delegations of authority needed to administer the CP program.

A summary of authorizations and issuances of the CP program is as follows:

June 2008	Board authorizes Series A (tax-exempt) and Series B (taxable), up to \$200 million
Nov 2008	Initial issuance of Series A and Series B Notes
Feb 2010	Board authorizes Series C (tax-exempt) to replace Series A
June 2010	Initial issuance of Series C Notes
April 2012	Board authorizes Series D (tax-exempt) to replace Series C and increases CP program to \$250 million
June 2012	Initial issuance of Series D Notes
Oct 2012	Program authorization increases from \$200 million to \$250 million
June 2014	Board authorizes Series E (tax-exempt) to replace Series D and initial issuance of Series E Notes
June 2016	<i>Request for Board authorization for Series F (tax-exempt) to replace Series E</i>
Fall 2016	<i>Tentative initial issuance of Series F Notes</i>

cc: Trustee Policy Committee, L. Simon, J. Youatt, S. Udpa, B. Beekman,
R. Noto, G. Klein, L. Adams



**OFFICE OF THE
VICE PRESIDENT FOR
FINANCE**

Mark P. Haas
Vice President for Finance
and Treasurer

Michigan State University
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48824

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MSU is an affirmative-action,
equal-opportunity employer.

STANDARDS OF OFFICIAL CONDUCT FOR SENIOR UNIVERSITY ADMINISTRATORS

I. PRINCIPLES

Administrators at Michigan State University are expected to abide by the highest ethical standards in discharging their responsibilities for the University, to act in the best interests of the University, to accord the University their primary professional loyalty, and to arrange their other obligations, financial interests, and activities in a manner consistent with these commitments to the University. These Standards of Official Conduct for Senior University Administrators ("the Policy") are adopted to implement these principles.

II. SCOPE

This Policy applies to all individuals who hold positions as deans, separately reporting directors, school directors, department chairpersons, or executive managers, including the President. This Policy also applies to individuals whose employment duties require significant responsibility and oversight for University entertainment, hospitality, or development activities, intercollegiate athletics, procurement, software/computer system development, and vendors. In this Policy, these individuals are referred to as "Administrators."

III. CONFLICTS OF INTEREST

A "conflict of interest" exists when an Administrator's financial interests or other opportunities for personal benefit may compromise, or reasonably appear to compromise, the independence of judgment with which the Administrator performs his/her responsibilities at the University.

Administrators should be sensitive to potential conflicts of interest. Though Administrators may seek to avoid conflicts of interest, circumstances may arise in which it proves impractical for an Administrator to do so. In those situations, the Administrator must promptly identify and disclose the conflict of interest and comply with the plan for its management or elimination.

IV. RULES

In addition to their obligations with respect to conflicts of interest, Administrators shall abide by the following rules.

- A. **Confidential Information.** Administrators shall exercise care regarding confidential and proprietary information acquired in the course of their employment at the University. Administrators shall not use or disclose such information for personal gain or benefit.

B. Outside Influence. No Administrator shall solicit any gift for personal gain or benefit. No Administrator shall accept any unsolicited gift from anyone outside the University, if the gift would tend to influence improperly the manner in which the Administrator performs his/her duties at the University.

C. Use of Authority, University Resources.

1. No Administrator shall use University property or resources, or his/her authority or title at the University, to obtain or provide others with a private benefit which is inconsistent with the University's interests, nor shall any Administrator personally profit, or cause others to profit, by trading on his/her University position or authority.

2. Administrators shall not represent their personal opinions as those of the University.

D. Conflicting or Incompatible Service. No Administrator shall render paid or voluntary services on behalf of any individual or entity, whether public or private, for-profit or not-for-profit, other than the University, when those services: (1) would be incompatible or in conflict with the discharge of that Administrator's duties at the University; or (2) would require that Administrator to disclose, to the University's detriment, confidential or proprietary information acquired in the course of his/her employment at the University.

E. Competition with University. No Administrator shall knowingly compete with the University for any property, asset, or opportunity needed by the University.

F. Diversion of Opportunities. No Administrator shall divert an opportunity which may be of interest to the University to another individual or entity for the Administrator's personal gain or benefit or for the gain or benefit of any relative of the Administrator unless the University has been informed of the opportunity on a timely basis and has declined to act on it.

V. CONTRACTS WITH THE UNIVERSITY

A. Prohibitions. An Administrator shall not directly or indirectly solicit, take any part in approving, take any part in negotiating, renegotiating, or amending, or in any other way represent any party to, any contract between the University and

1. the Administrator; or

2. a relative of the Administrator; or

3. any corporation, partnership, unincorporated association, trust, or estate in which the Administrator has a significant financial interest; or

4. any corporation, partnership, unincorporated association, trust, or estate in which the Administrator knows or reasonably should know that a relative of the Administrator has a significant financial interest.

- B. Board Approval.** Administrators shall take all steps necessary to assist the University to comply with the State law requiring Board approval of contracts between the University and the Administrator or between the University and entities in which the Administrator has a financial interest specified by the State law.

VI. REPORTING

- A. Disclosure of Significant Financial Interests.** Each year a questionnaire shall be distributed to each Administrator asking the Administrator to provide information about organizations that do business, or intend to do business, with the University and in which the Administrator or members of the Administrator's immediate family have a financial interest prescribed in the questionnaire. Each Administrator shall provide the requested information.

B. Disclosing Conflicts of Interest.

1. Disclosure of conflicts of interest is the responsibility of the Administrator who becomes involved in activities that may be in conflict. The Administrator shall make disclosure to the Administrator to whom he/she reports as soon as he/she becomes aware of the situation that gives rise to the conflict of interest, except that the President shall make such disclosure to the Chairperson of the Board of Trustees. An Administrator who has questions about a possible conflict of interest, or about compliance with other parts of this Policy, should direct them to the same individual.

2. In considering possible conflicts of interest, Administrators should err on the side of disclosure. It is the role of the University, not the Administrator, to decide whether the disclosed interest constitutes a conflict of interest and, if it does, how best to address it.

- C. Complaints.** The University shall maintain a process for receiving reports, including anonymous reports, of undisclosed conflicts of interest and other violations of this Policy by Administrators.

VII. IMPLEMENTATION

- A. **Authority.** The President shall be responsible for implementing this Policy for all other Administrators, and thus has authority with respect to such Administrators to:
1. determine whether a conflict of interest exists and, if it does, establish a plan for its management or elimination;
 2. designate appropriate individuals to investigate alleged violations of this Policy and report back to him/her;
 3. decide whether an Administrator has violated this Policy;
 4. institute disciplinary action for any such violation; and
 5. delegate any of these tasks to the Provost or the Executive Vice President for Administrative Services on a case-by-case basis.

The Chairperson of the Board shall review any issues relating to the implementation of this Policy with respect to the President and report to the Board about the results of such review.

- B. **Handbook.** A handbook explaining and interpreting this Policy shall be made available to Administrators.
- C. **Annual Certification.** Each Administrator will affirm annually that he/she has complied with this Policy during the previous year and will comply with this Policy during the next year.
- D. **Annual Report.** The President shall make an annual report to the Audit Committee of the Board of Trustees on the implementation of this Policy during the previous year.

VIII. SANCTIONS

Administrators who violate this Policy are subject to disciplinary action, up to and including discharge.

IX. POLICY HISTORY

This Policy was approved by the Board of Trustees on June 18, 2004 and revised on June 15, 2016.

MICHIGAN STATE
UNIVERSITY

Attachment 2.B

To: Trustee Policy Committee

From: Lou Anna K. Simon, Provost *LAKS*

Re: Standards of Conduct for Deans, Directors and Executive Managers

Date: June 10, 2004

Recommendation:

BE IT RESOLVED that the Trustee Policy Committee recommends to the Board of Trustees that it adopt the attached policy entitled "Standards of Conduct for Deans, Directors, and Executive Managers."

Background:

In recent years, members of the Board of Trustees have periodically discussed the adoption of a conflict of interest policy and ethics code for senior administrators. The Trustees and the President are "state officers" subject to the terms of the Michigan "Conflict of Interest" statute. That statute does not include other senior University administrators besides the President in its definition of "state officer," and there is no University policy to establish parameters for how the University or such administrators should respond to potential conflict of interest situations involving the administrators. Nor does the University have a formal ethics code for its executives.



OFFICE OF THE
PROVOST

Michigan State University
Administration Building
East Lansing, MI
48824-1046
Fax: 517/355-9601

Several Trustees and officers have advocated the adoption of a set of conduct standards for senior administrators, not to address particular problems, but as a matter of good governance and to clarify what the University expects of its senior staff. For similar reasons, the University's external and internal auditors have also recommended that the University move forward with a conflict of interest policy. The need for such a policy has become more pressing since the corporate scandals which led to the enactment of the Sarbanes-Oxley legislation and to the media's focus on corporate ethics.

At its January work session, the Board Policy Committee had an opportunity to review a discussion draft of the Standards of Conduct for Deans, Directors, and Executive Managers ("Standards"). After that meeting the Standards were submitted to the Deans and to the senior staff of the Provost and of the Vice President for Finance and Operations. Their comments about the draft were generally favorable. These comments led to a few changes to the draft

that the Board received in January. A copy of the Standards marked to show such changes is also attached (Attachment 2).

As noted in the proposed Standards, a handbook explaining and interpreting the Standards will be prepared. The current draft of the handbook will be distributed to the Board prior to the Policy Committee work session next week to provide additional background and perspective on the proposed Standards. The handbook answers many of the other questions raised by the deans and administrators who reviewed the draft Standards earlier this year. A subcommittee of deans and several senior administrators will work with Vice President Noto and Assistant Vice President Banks over the summer to finalize the handbook. A copy of the handbook will be provided to the Board for its information before it is distributed to senior administrators in the fall.

Vice President Noto and Assistant Vice President Banks will attend the Policy Committee work session and answer questions about the Standards. Please note that Assistant Vice President Brower will be briefing the Finance Committee on a related topic, the Sarbanes-Oxley Act, at its work session earlier on June 17, 2004.

cc: Trustee Finance Committee Members
President McPherson
Vice President Poston
Secretary Carter
Vice President Noto
Assistant Vice President Banks
Assistant Vice President Brower

STANDARDS OF OFFICIAL CONDUCT FOR DEANS, SEPARATELY REPORTING DIRECTORS, AND EXECUTIVE MANAGERS

I. PRINCIPLES

Administrators at Michigan State University are expected to abide by the highest ethical standards in discharging their responsibilities for the University, to act in the best interests of the University, to accord the University their primary professional loyalty, and to arrange their other obligations, financial interests, and activities in a manner consistent with these commitments to the University. These Standards of Official Conduct for Deans, Separately Reporting Directors, and Executive Managers ("the Policy") are adopted to implement these principles.

II. SCOPE

This Policy applies to all individuals who hold positions as deans, separately reporting directors, or executive managers, including the President. In this Policy, these individuals are referred to as "Administrators."

III. CONFLICTS OF INTEREST

A "conflict of interest" exists when an Administrator's financial interests or other opportunities for personal benefit may compromise, or reasonably appear to compromise, the independence of judgment with which the Administrator performs his/her responsibilities at the University.

Administrators should be sensitive to potential conflicts of interest. Though Administrators may seek to avoid conflicts of interest, circumstances may arise in which it proves impractical for an Administrator to do so. In those situations, the Administrator must promptly identify and disclose the conflict of interest and comply with the plan for its management or elimination.

IV. RULES

In addition to their obligations with respect to conflicts of interest, Administrators shall abide by the following rules.

- A. **Confidential Information.** Administrators shall exercise care regarding confidential and proprietary information acquired in the course of their employment at the University. Administrators shall not use or disclose such information for personal gain or benefit.

B. **Outside Influence**. No Administrator shall solicit any gift for personal gain or benefit. No Administrator shall accept any unsolicited gift from anyone outside the University, if the gift would tend to influence improperly the manner in which the Administrator performs his/her duties at the University.

C. **Use of Authority, University Resources**.

1. No Administrator shall use University property or resources, or his/her authority or title at the University, to obtain or provide others with a private benefit which is inconsistent with the University's interests, nor shall any Administrator personally profit, or cause others to profit, by trading on his/her University position or authority.

2. Administrators shall not represent their personal opinions as those of the University.

D. **Conflicting or Incompatible Service**. No Administrator shall render paid or voluntary services on behalf of any individual or entity, whether public or private, for-profit or not-for-profit, other than the University, when those services: (1) would be incompatible or in conflict with the discharge of that Administrator's duties at the University; or (2) would require that Administrator to disclose, to the University's detriment, confidential or proprietary information acquired in the course of his/her employment at the University.

E. **Competition with University**. No Administrator shall knowingly compete with the University for any property, asset, or opportunity needed by the University.

F. **Diversion of Opportunities**. No Administrator shall divert an opportunity which may be of interest to the University to another individual or entity for the Administrator's personal gain or benefit or for the gain or benefit of any relative of the Administrator unless the University has been informed of the opportunity on a timely basis and has declined to act on it.

V. **CONTRACTS WITH THE UNIVERSITY**

A. **Prohibitions**. An Administrator shall not directly or indirectly solicit, take any part in approving, take any part in negotiating, renegotiating, or amending, or in any other way represent any party to, any contract between the University and

1. the Administrator; or
2. a relative of the Administrator; or

3. any corporation, partnership, unincorporated association, trust, or estate in which the Administrator has a significant financial interest; or
4. any corporation, partnership, unincorporated association, trust, or estate in which the Administrator knows or reasonably should know that a relative of the Administrator has a significant financial interest.

- B. **Board Approval.** Administrators shall take all steps necessary to assist the University to comply with the State law requiring Board approval of contracts between the University and the Administrator or between the University and entities in which the Administrator has a financial interest specified by the State law.

VI. REPORTING

- A. **Disclosure of Significant Financial Interests.** Each year a questionnaire shall be distributed to each Administrator asking the Administrator to provide information about organizations that do business, or intend to do business, with the University and in which the Administrator or members of the Administrator's immediate family have a financial interest prescribed in the questionnaire. Each Administrator shall provide the requested information.
- B. **Disclosing Conflicts of Interest.**
1. Disclosure of conflicts of interest is the responsibility of the Administrator who becomes involved in activities that may be in conflict. The Administrator shall make disclosure to the Administrator to whom he/she reports as soon as he/she becomes aware of the situation that gives rise to the conflict of interest, except that the President shall make such disclosure to the Chairperson of the Board of Trustees. An Administrator who has questions about a possible conflict of interest, or about compliance with other parts of this Policy, should direct them to the same individual.
 2. In considering possible conflicts of interest, Administrators should err on the side of disclosure. It is the role of the University, not the Administrator, to decide whether the disclosed interest constitutes a conflict of interest and, if it does, how best to address it.
- C. **Complaints.** The University shall establish a process for receiving reports, including anonymous reports, of undisclosed conflicts of interest and other violations of this Policy by Administrators.

VII. IMPLEMENTATION

- A. **Authority.** The President shall be responsible for implementing this Policy for all other Administrators, and thus has authority with respect to such Administrators to:
1. determine whether a conflict of interest exists and, if it does, establish a plan for its management or elimination;
 2. designate appropriate individuals to investigate alleged violations of this Policy and report back to him/her;
 3. decide whether an Administrator has violated this Policy;
 4. institute disciplinary action for any such violation; and
 5. delegate any of these tasks to the Provost or the Executive Vice President for Administrative Services on a case-by-case basis.
- The Chairperson of the Board shall review any issues relating to the implementation of this Policy with respect to the President and report to the Board about the results of such review.
- B. **Handbook.** A handbook explaining and interpreting this Policy shall be prepared and made available to Administrators.
- C. **Annual Certification.** Each Administrator will affirm annually that he/she has complied with this Policy during the previous year and will comply with this Policy during the next year.
- D. **Annual Report.** The President shall make an annual report to the Audit Committee of the Board of Trustees on the implementation of this Policy during the previous year.

VIII. SANCTIONS

Administrators who violate this Policy are subject to disciplinary action, up to and including discharge.

OPTION AGREEMENT EXTENSION TERM SHEET

Party: Black Pine Engineering, LLC

License: Option extension on patent rights

Term: From the effective date of the agreement to December 19, 2016; the term for the initial one-year option expired October 26, 2015, and a first extension expired April 27, 2016.

Technology: TEC2011-0071 "Rotor Apparatus" including U.S. Patent Application 14/001,820; and TEC2004-0084 "Woven Turbomachine Impeller" including U.S. Patents Nos. 7,938,627; 8,449,258; and 8,506,254

The parties may add or remove technologies under the agreement, including improvements generated under a separate sponsored research agreement, provided that the change does not affect the financial consideration of the parties or the nature or extent of any pecuniary interest of MSU personnel.

Technology's Potential Commercial Utilization: Gas removal compressors

Payment Terms: \$2,500 fee payable to MSU within 30 days of invoice. Initial one-year option fee was \$5,000; first extension fee was \$2,500.

Services Provided: By MSU to Black Pine Engineering, LLC: None contemplated under agreement
By Black Pine Engineering, LLC to MSU: None contemplated under agreement

Organization Type: Michigan limited liability company

Personnel Interest: Dr. Norbert H. Mueller, an Associate Professor in the Department of Mechanical Engineering, Blake Glower, a Teaching Assistant in the College of Engineering, Thomas Qualman, a Teaching Assistant in the Department of Mechanical Engineering, Andrew VanderKlok, a Research

Assistant in the Department of Mechanical Engineering, and members of their families own or have options to buy an ownership interest of more than 1% of the company. Dr. Mueller is also an officer of Black Pine Engineering, LLC.

PROFESSIONAL SERVICES CONTRACT TERM SHEET

Party:	Cultural Intelligence Center, LLC
Agreement:	Professional services contract for orientation, training, assessment, and feedback services for MSU leaders and students related to international travel and diversity and inclusiveness on campus
Term:	June 15, 2016 to June 14, 2017
Payment Terms:	Cultural Intelligence Center LLC to provide up to four training sessions for a fee from MSU of \$6,750* for up to 50 participants per session. Additional participants above 50 per session for an additional fee of \$45 per person, plus reasonable travel expenses.
Services Provided:	<p>By MSU to Cultural Intelligence Center, LLC: venue, use of audio/visual equipment, any catering deemed appropriate by MSU</p> <p>By Cultural Intelligence Center, LLC to MSU: training, research-based and validated assessment, and feedback related to international travel, cultural intelligence, and diversity and inclusiveness</p>
Organization Type:	Michigan limited liability company
Personnel Interest:	Dr. Linnea Van Dyne, a Professor in the Department of Management, and members of her family own, or have options to buy an ownership interest of, more than 1% of the company.

*Cultural Intelligence Center, LLC is the only provider of the described services to include research-based, validated assessment with in-depth and individualized reports. Cultural Intelligence Center, LLC has agreed to give MSU Human Resources the discounted price reflected above. In a separate program in another topic area, similar services that include research-based, validated assessments were priced 10% higher than the agreed price for the Cultural Intelligence Center, LLC services described above.

EXCLUSIVE LICENSE AGREEMENT TERM SHEET

Party:	Life Blood Corp.
License:	Exclusive license on patent rights
Term:	From the effective date of the agreement until expiration or abandonment of the patents
Technology:	MSU Invention Disclosure Nos. TEC2015-0060, "Compositions and Methods for Measuring C-Peptide Binding and Diagnosing Immune-Mediated Diseases", and TEC2016-0152, "An Additional Hormone Replacement Therapy for People with Diabetes"
Technology's Potential Commercial Utilization:	Blood diagnostic test for Multiple Sclerosis ("MS")
Payment Terms:	Three (3) percent royalty payable to MSU on products sold by licensee and sublicensee(s), plus royalties from other sublicense income to vary based on development milestones achieved at the time of sublicense (30% if sublicense is signed prior to request for a Pre-Submission meeting* with the FDA, 15% if sublicense is signed after the request but prior to the Pre-submission meeting with the FDA, 5% if sublicense is signed after the Pre-Submission meeting with the FDA), as well as five percent (5%) equity in the company issued to MSU or its designee. Improvements directly related to the patent rights may be included in the license upon payment of \$10,000 fee per improvement.
Services Provided:	By MSU to Life Blood Corp.: None contemplated under agreement By Life Blood Corp. to MSU: None contemplated under agreement
Use of University Facilities/Personnel:	None
Organization Type:	Delaware corporation
Personnel Interest:	Dr. Eric Robert Eggenberger, a Professor in the Department of Neurology & Ophthalmology, Dr. Dana Spence, an Associate Professor in the

Department of Chemistry, and Drs. Suzanne Summers and Sara Lockwood, both Research Associates in the Department of Chemistry, and members of their families own or have options to buy an ownership interest of more than 1% of the company.

* "Pre-Submission meeting" refers to a meeting between the FDA and applicant before the applicant submits a full application for regulatory approval. At the Pre-Submission meeting, the FDA informs the applicant on requirements for approval. After the Pre-Submission meeting the applicant works toward meeting the requirements and then submitting the regulatory application for approval.

LICENSE AGREEMENT TERM SHEET

Party:	MTBIsense, LLC
Agreement:	Exclusive license of patent rights excepting rights and duties to the United States government
Term:	From the effective date of the agreement until the last of the patents expires
Technology:	<p>MSU Invention Disclosure No. TEC2016-0005 "Digital to Analog Impact Recorder"; and US Provisional Patent Application No. 62/234,107 "Materials and Apparatus with Multiple Impact Level and Torque Detection".</p> <p>The parties may add or remove technologies under the agreement, including improvements generated internally or under a separate sponsored research agreement, provided that the change does not affect the financial consideration of the parties or the nature or extent of any pecuniary interest of MSU personnel.</p>
Potential Commercial Use:	Impact-sensing devices for application to digital-to-analog impact recorders
Payment Terms:	\$10,000 initial payment and variable royalty payable to MSU on net sales of two (2) to five (5) percent for gross sales between \$200,000 to \$5,000,000
Services Provided:	<p>By MSU to MTBIsense, LLC: None contemplated under Agreement</p> <p>By MTBIsense, LLC to MSU: None contemplated under agreement</p>
Organization Type:	Michigan limited liability company
Personnel Interest:	Dr. Gary Blanchard and Dr. Marcos Dantus, both Professors in the Department of Chemistry, and members of their families own or have options to buy an ownership interest of more than 1% of the company. Both Professors Blanchard and Dantus are anticipated to be managing members of the LLC.

PURCHASE AGREEMENT TERM SHEET

Party:	Turbo Ventures 2, LLC
Agreement:	Purchase agreement for an evaporative cooling room
Payment Terms:	\$32,000*
Services Provided:	By MSU to Turbo Ventures 2, LLC: None contemplated under agreement By Turbo Ventures 2, LLC to MSU: configuring, sourcing and procurement of materials, assembly, testing, and delivery of the cooling system
Use of University Facilities/Personnel:	Assembly and testing to be completed and/or supervised at MSU's Engineering Building by Dr. Norbert Mueller, an Associate Professor in the Department of Mechanical Engineering, and/or Dr. Randolph Beaudry, a Professor in the Department of Horticulture
Organization Type:	Michigan limited liability company
Personnel Interest:	Dr. Norbert Mueller, an Associate Professor in the Department of Mechanical Engineering, and members of his family own or have options to buy more than 1 percent of the company.

* Competitive quote of \$36,000 received from SunDanzer. This company was not open to modifying or improving efficiencies in its existing system.