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

June 17, 2015

President Simon called the meeting of the Board of Trustees to order at 11:15 a.m. in the Board Room.

Trustees present: Brian Breslin, Dianne Byrum, Joel Ferguson, Melanie Foster, Mitch Lyons, Brian Mosallam, George Perles (via telephone), and Diann Woodard.

University officers present: President Simon, Provost and Executive Vice President Youatt, Executive Vice President Udpa, Vice President and Secretary Beekman, Vice President and General Counsel Noto, Vice Presidents Burnham, Gore, Groves, Haas, Hsu, Maybank, Swain, and Young, and Senior Advisor and Director Granberry Russell. Faculty liaisons present: William Davidson II, Phylis Floyd, Mariam Sticklen, and Mary Noel. Student liaisons present: Domonique Clemons and Sudha Sankar.

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

1. On a motion by Trustee Foster, supported by Trustee Ferguson, the BOARD VOTED to approve the agenda.

2. On a motion by Trustee Ferguson, supported by Trustee Foster, 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. Student Achievements

The Society of Professional Journalists honored The State News, MSU’s student newspaper, as the nation’s best daily college newspaper of 2014. This is the first time The State News has won the honor.

MSU computer science senior Angela Sun was one of three women recently honored by the National Center for Women and
Information Technology and was an inaugural winner of the center’s Collegiate Award for her innovative mobile app, You++.

The Hoplite Quartet, four trombone students from the MSU College of Music, will travel to Spain in July to compete as the only U.S. group in the finals of the 2015 International Trombone Festival.

B. Faculty Achievements

University Distinguished Professor Jack Liu has been elected to the American Philosophical Society, the oldest "learned society" in the United States.

University Distinguished Professor Sheng-Yang He has been elected to the National Academy of Sciences as part of its 2015 class.

College of Veterinary Medicine associate professor Bo Norby was selected as a key stakeholder in the White House's effort to combat antibiotic resistance nationwide.

With her most recent discovery, Professor Pamela Rasmussen, an integrative biologist, is tied for the third-highest number of bird discoveries in the world with 10 – and is ranked first for birds discovered in Asia.

The International Association for Great Lakes Research (IAGLR) has recognized journalism professor David Poulson with the John R. Vallentyne award for career-long dedication to informing and educating the public and policymakers on Great Lakes issues.

C. Staff Achievements

MSU College of Engineering academic adviser Dan King has won the 2015 National Academic Advising Association Commission and Interest Group Division Service Award.

MSU's Office of Communications and Brand Strategy captured five award wins out of its seven entries at the 36th Annual Telly Awards, which honor the best in film and video production, web content, local and regional commercials, and long form programs. Over 12,000 entries were submitted.
Its work was also nominated for seven Emmy Awards this year, and this past weekend MSU's Anthony Siciliano was named Best Editor.

Mike Brand, Executive Director of Wharton Center for Performing Arts, was honored at the Broadway League Conference in New York City with the Samuel J. L'Hommedieu Award, the highest award that can be given to an executive of a performing arts center affiliated with Broadway touring companies.

D. University-wide Rankings and Awards

MSU's Broad College of Business MBA program is on U.S. News and World Report's list of top 10 MBA Programs With The Most Employed Graduates, with 95.6 percent of full-time MBA graduates having landed a job within three months after graduating in 2014.

Business Insider recently released a list of the 50 U.S. colleges with the best food, placing MSU at No. 20 and as the top university in Michigan.

Chittenden Hall was chosen as the recipient of the Michigan Historic Preservation Network 2015 Building Award, recognizing an outstanding building preservation completed within the last three years.

E. Athletics

The spring season was a strong one in the classroom for MSU student-athletes, with 108 individuals recognized with Academic All-Big Ten honors.

Last month, the MSU women's track and field team won its second Big Ten outdoor track and field title in program history, behind senior Leah O'Connor's wins in the 1,500 and 5,000-meter races.

Michigan State Director of Intercollegiate Athletics Mark Hollis was recently inducted into the National Association of Collegiate Marketing Administrators Hall of Fame in Orlando. Hollis was one of two inductees honored at the Association's annual convention earlier this week.

Michigan State basketball great Steve Smith has been named one of this year's three winners of the Basketball Hall of Fame's
humanitarian award, the Mannie Jackson Award, for his charitable work, donations, and dedication to making the world a better place. The award will be presented September 10 at the Hall in Springfield, Massachusetts.

4. Public Participation on Issues Germaine to the Agenda.

A. State Police Post Redevelopment

Ruth Ann Stump, President of the Red Cedar Community Association, said that the neighborhood is one of the oldest in East Lansing with residents who include current and former MSU faculty, staff, and students. Ms. Stump voiced concern with the plans for the four-story apartment buildings that would be placed very close to the current residences. Ms. Stump asked MSU to move or reduce the height of the buildings. Additionally, Ms. Stump asked that the traffic flow on Harrison Road be examined more closely, especially egress from the proposed parking ramp.

Susan Chalgian, MSU staff member, said that she was representing the Trowbridge Business Association. Ms. Chalgian said that reactions to the redevelopment from Trowbridge business owners were positive. Business owners expressed a high level of confidence in MSU’s quality, long-term planning and achievements. Ms. Chalgian said that business owners are excited to have family-oriented housing on campus. Ms. Chalgian said that she hoped to continue to work collaboratively with MSU on future developments.

5. Personnel Actions

Provost Youatt presented the following personnel actions:

Hennessy, David A., AY - Professor, Elton R. Smith Chair in Food and Agricultural Policy, Department of Agricultural, Food and Resource Economics, $ 206,000, with Tenure, effective August 16, 2015.

Donahue, Darrell W., AN - Professor, Department of Biosystems and Agricultural Engineering, $ 218,000, with Tenure, effective July 1, 2015.

Long, Christopher, AN - Dean, College of Arts and Letters; Professor, Philosophy, $ 270,000, with Tenure, effective July 1, 2015.

Fritzsche, Sonja, AN - Professor, Department of Linguistics, Germanics, Slavic, Asian, and African Languages, $153,167, with Tenure, effective August 1, 2015.
Deliyski, Dimitar, AY - MSU Foundation Professor, Department of Communicative Sciences and Disorders, $145,000, with Tenure, effective August 16, 2015.

Bunnell, Jane E., AY - Professor, College of Music, $100,000, with Tenure, effective August 16, 2015.

Rasch, Randolph, AN - Dean, College of Nursing; Professor, Nursing, $220,000, with Tenure, effective July 1, 2015.

Acevedo, Ignacio D., AY - Associate Professor, Department of Psychology, $82,000, with Tenure, effective August 16, 2015.

Gade, Alexandra, AN - Professor, National Superconducting Cyclotron Laboratory; Department of Physics-Astronomy, $169,000, with Tenure, effective July 1, 2015.

Maciel Nunes, Filomena M., AY - Professor, National Superconducting Cyclotron Laboratory; Department of Physics-Astronomy, $118,000, with Tenure, effective August 16, 2015.

Zegers, Remco G.T., AN - Professor, National Superconducting Cyclotron Laboratory; Department of Physics-Astronomy, $161,000, with Tenure, effective July 1, 2015.

Anastos, Thomas A., AN-Head Coach- Hockey, Intercollegiate Athletics, Subject to Contract, effective July 1, 2017 to June 30, 2018.

Hollis, Mark J., AN-Director of Intercollegiate Athletics, Subject to Contract, effective July 1, 2018 to June 30, 2019.

Izzo, Thomas, AN-Head Coach- Basketball, Intercollegiate Athletics, Subject to Contract, effective July 1, 2020 to June 30, 2021.

Rakan, Susan M. (Suzy Merchant), AN-Head Coach- Women's Basketball, Intercollegiate Athletics, Subject to Contract, effective July 1, 2018 to June 30, 2019.

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

THE BOARD VOTED to approve the resolution.

Provost Youatt presented the following personnel actions:
Gupta, Sanjay, AN—Acting Dean, Eli and Edythe Broad College of Business; Professor, Department of Accounting and Information Systems, for a change in title to Eli and Edythe Broad Dean, Eli Broad College of Business and for a change in salary to $425,000, effective June 17, 2015.

Schmitt, Neal, AN—University Distinguished Professor Emeritus and Chairperson Emeritus, to add title of Interim Dean, College of Social Science at a salary rate of $300,000, effective June 17, 2015.

Stoddart, Judith, AN—Associate Dean, Graduate School; Associate Professor, Department of English, for a change in title to Interim Associate Provost, Office of the Provost and Executive Vice President for Academic Affairs and Interim Dean, Graduate School and for a change in salary to $150,000, effective June 1, 2015.

Trustee Mosallam moved to approve the recommendations, with support from Trustee Woodard.

THE BOARD VOTED to approve the resolution.

Provost Youuat recommended approval of the University Distinguished Professor designation for the ten faculty members listed below, to be effective June 17, 2015.

Roger J. Calantone Department of Marketing
Marcos Dantus Department of Chemistry
Joseph C. Gardiner Department of Epidemiology and Biostatistics
Mary K. Hausbeck Department of Plant, Soil and Microbial Sciences
Michael J. Leahy Department of Counseling, Educational Psychology and Special Education
Linda S. Mansfield Departments of Large Animal Clinical Sciences; Microbiology and Molecular Genetics
Hendrik Schatz Department of Physics-Astronomy; National Superconducting Cyclotron Laboratory
Thomas D. Sharkey Department of Biochemistry and Molecular Biology
Robert C. Smith Departments of Medicine; Psychiatry
Michael R. Thoennessen Department of Physics-Astronomy; National Superconducting Cyclotron Laboratory

Trustee Byrum moved to approve the recommendation, with support from Trustee Woodard.
THE BOARD VOTED to approve the resolution.

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

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

THE BOARD VOTED to approve the resolution.

6. Gifts, Grants, and Contracts


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

THE BOARD VOTED to approve the resolution.

Vice President Hsu introduced Professor Cheryl Kerfeld, a Hannah Distinguished Professor in the Department of Biochemistry and Molecular Biology in the College of Natural Science. Professor Kerfeld made a presentation to the Board on the structural bioengineering of photosynthesis. (Appendix B)

Trustee Perles joined the meeting by telephone.

7. Finance Committee

Trustee Foster presented the Trustee Finance Committee Report and recommendations.


It was recommended that the Board of Trustees adopt the 2015-16 Budget Development Guidelines and 2016-17 Preliminary General Fund Budget Guidelines, which include revenue and expenditure totals and tuition fee rates for 2015-16 and 2016-17.
BE IT RESOLVED, the Board of Trustees adopts the 2015-16 Budget Development Guidelines (Budget Guidelines) and 2016-17 Preliminary Budget Guidelines (Preliminary Guidelines); and

BE IT FURTHER RESOLVED, that the Administration is directed to develop and implement the 2015-16 General Fund, MSU AgBioResearch, Michigan State University Extension, and Intercollegiate Athletics budgets in accordance with the Budget Guidelines and to develop the 2016-17 Budget Development Guidelines in accordance with the Preliminary Guidelines.

Trustee Perles left the meeting.

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

THE BOARD VOTED to approve the resolution.

Trustee Woodard voted no.

B. University Rehabilitation Alliance Extension of Credit

It was recommended that the Board of Trustees authorize the Administration to increase its extension of credit to University Rehabilitation Alliance, Inc. ("URA"), a joint venture between Michigan State University and Peckham, Inc. ("Peckham"), a Michigan non-profit corporation.

BE IT RESOLVED, that the Board of Trustees hereby authorizes the Vice President for Finance and Treasurer to negotiate and execute appropriate documentation to increase the amount of credit available to URA from MSU by $1.5 million, provided that Peckham provides a loan in the same amount to URA contemporaneously with MSU’s extension of credit.

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

THE BOARD VOTED to approve the resolution.

C. New Investment Manager—Polaris Capital Management, LLC

It was recommended that the Board of Trustees select Polaris Capital Management, LLC as an investment manager in the
developed global ex U.S. asset class of the Common Investment Fund.

BE IT RESOLVED, that the Board of Trustees of Michigan State University hereby appoints Polaris Capital Management, LLC as an investment manager; and be it further

RESOLVED that the Board of Trustees (a) waives the 14 percent upper limit for the developed global ex U.S. asset class in the Investment Policy's Statement of Investment Objectives in order to enable the Administration to invest $30 million in Polaris International Equity Fund; and (b) releases the Administration from its obligation under Section X(5) of the Investment Policy to rebalance the CIF portfolio as a consequence of this investment.

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

THE BOARD VOTED to approve the resolution.

D. Authorization to Plan—Electrical Distribution—Upgrade Northwest Zone

It was recommended that the Board of Trustees authorize the Administration to plan for upgrading the campus electrical system on northwest campus to ensure reliability and to accommodate expansion.

BE IT RESOLVED, that the Board of Trustees of Michigan State University hereby authorizes the Administration to plan for the project entitled "Electrical Distribution—Upgrade Northwest Zone."

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

THE BOARD VOTED to approve the resolution.

E. Authorization to Plan—Engineering Building—Alterations to Suite 1515

It was recommended that the Board of Trustees authorize the Administration to plan for the creation of a functional office environment that supports teaching and research in the newly created Department of Computational Mathematics, Science, and Engineering.
BE IT RESOLVED, that the Board of Trustees of Michigan State University hereby authorizes the Administration to plan for the project entitled "Engineering Building—Alterations to Suite 1515."

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

THE BOARD VOTED to approve the resolution.

F. Authorization to Plan—Crop Science—Field Laboratory—Storage 2 (landscape change)

It was recommended that the Board of Trustees authorize the Administration to plan for an additional storage building for the Department of Plant, Soil, and Microbial Sciences.

BE IT RESOLVED, that the Board of Trustees of Michigan State University hereby authorizes the Administration to plan for the project entitled "Crop Science—Field Laboratory—Storage 2."

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

THE BOARD VOTED to approve the resolution.

G. Project Approval—Authorization to Proceed—State Police Post Redevelopment

It was recommended that the Board of Trustees authorize the Administration to proceed with redevelopment of the former State Police Post site, including facilities that will replace the apartments at Spartan Village, a prerequisite to its eventual demolition.

BE IT RESOLVED, that the Board of Trustees of Michigan State University hereby authorizes the Administration to proceed with the project entitled "State Police Post Redevelopment," with a project budget of $156,700,000; and

BE IT FURTHER RESOLVED, that the Board of Trustees of Michigan State University hereby changes the zoning district of the former State Police post from Service to Mixed-Use North and grants a variance to the University zoning ordinance to allow a modest encroachment of parking and building footprint into protected greenspace.
Trustee Foster **moved to approve** the recommendation, with support from Trustee Ferguson.

**THE BOARD VOTED to approve** the resolution.

H. Project Approval—Authorization to Proceed—MSU College of Law—North Entrance Site Improvements (*footprint change*)

It was recommended that the Board of Trustees authorize the Administration to proceed with enhancements to the College of Law building entrance.

BE IT RESOLVED, that the Board of Trustees of Michigan State University hereby authorizes the Administration to proceed with the project entitled “MSU College of Law—North Entrance Site Improvements.”

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

**THE BOARD VOTED to approve** the resolution.

I. Project Approval—Authorization to Proceed—Crop Science—Field Laboratory—Addition 2—Greenhouse (*footprint change*)

It was recommended that the Board of Trustees authorize the Administration to proceed with an addition to the crop science field laboratory to accommodate expansion of the potato breeding and genetics program.

BE IT RESOLVED, that the Board of Trustees of Michigan State University hereby authorizes the Administration to proceed with the project entitled “Crop Science—Field Laboratory—Addition 2—Greenhouse.”

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

**THE BOARD VOTED to approve** the resolution.

J. Project Approval—Authorization to Proceed—MSU Police—Special Response Team Operations Center and MSU Police Training Facility—Computer-Based Decision Shooting System (*lanuscpe and footprint change*)
It was recommended that the Board of Trustees authorize the Administration to (a) proceed with the construction of a building to replace the two MSU Police buildings which will be displaced from their current location at the former State Police Post site by the “State Police Post Redevelopment” project; and (b) proceed, without prior authorization to plan, with the expansion of an existing training building next to the site of the new building to achieve cost savings by undertaking the two projects concurrently.

BE IT RESOLVED, that the Board of Trustees of Michigan State University waives any requirement under Board Policy 02-06-01 that the Administration obtain authorization to plan for the project entitled “MSU Training Facility—Computer-Based Decision Shooting System,” and hereby authorizes the Administration to proceed with that project; and

BE IT FURTHER RESOLVED, that the Board of Trustees of Michigan State University hereby authorizes the Administration to proceed with the project entitled “State Police Post Redevelopment.”

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

THE BOARD VOTED to approve the resolution.

K. Project Approval—Authorization to Proceed—MSU Scene Shop—Performing Arts Teaching Laboratory

It was recommended that the Board of Trustees authorize the Administration to proceed with the relocation of the MSU Scene Shop, which will be displaced from its current location at the former State Police Post site.

BE IT RESOLVED, that the Board of Trustees of Michigan State University hereby authorizes the Administration to proceed with the project entitled “MSU Scene Shop—Performing Arts Teaching Laboratory,” with a project budget of $2,400,000; and

BE IT FURTHER RESOLVED, that the Board of Trustees of Michigan State University hereby grants a variance to the University zoning ordinance to permit an academic land use within the Service District.
Trustee Foster moved to approve the recommendation, with support from Trustee Mosallam.

THE BOARD VOTED to approve the resolution.

L. Project Approval—Authorization to Proceed—Natural Gas Distribution—New Pipeline from Mt. Hope Road

It was recommended that the Board of Trustees authorize the Administration to proceed with installation of a second natural gas line to connect the T.B. Simon Power Plant to the Consumers Energy main gas distribution line along Mt. Hope Road.

BE IT RESOLVED, that the Board of Trustees of Michigan State University hereby authorizes the Administration to proceed with the project entitled “Natural Gas Distribution—New Pipeline from Mt. Hope,” with a project budget of $3,450,000.

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

THE BOARD VOTED to approve the resolution.

8. Policy Committee

Trustee Byrum presented the Trustee Policy Committee Report and recommendations.

A. Naming Proposal: Detroit College of Law Plaza

It was recommended that the Board of Trustees name the north entrance plaza to the Michigan State University College of Law building the Detroit College of Law Plaza.

BE IT RESOLVED, that the north entrance plaza to the Michigan State University College of Law building, presented to the Board of Trustees for authorization to proceed on June 17, 2015, be named Detroit College of Law Plaza.

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

THE BOARD VOTED to approve the resolution.

B. Naming Proposal: Lasch Family Golf Center
It was recommended that the Board of Trustees name the men's and women's golf facility at Forest Akers West Golf Course the Lasch Family Golf Center.

BE IT RESOLVED, that the men's and women's golf facility at Forest Akers West Golf Course, presented to the Board of Trustees for Authorization to Proceed on February 6, 2015, be named the Lasch Family Golf Center.

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

THE BOARD VOTED to approve the resolution.

C. Smoking Ordinance Amendment

It was recommended that the Board of Trustees amend and modify Board Ordinance 29.00, Smoking, Use and Sale of Tobacco Products, to prohibit smoking and the use of tobacco products on campus, effective August 15, 2016.

BE IT RESOLVED, that the Board of Trustees amends Board Ordinance 29.00 Smoking, Use and Sale of Tobacco Products as shown in Attachment A, effective August 15, 2016. (Appendix C)

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

THE BOARD VOTED to approve the resolution.

D. Amendment of Ordinance 35.00 (Administration—Traffic) to Add Taxicab Regulation

It was recommended that the Board of Trustees adopt an ordinance regulating the operation of taxicabs and other vehicles for hire on campus.

BE IT RESOLVED, that the Board of Trustees hereby amends University Ordinance 35.00 (Administration—Traffic) by adding the language in Exhibit A attached hereto as section 35.50 thereof. (Appendix D)

Trustee Byrum moved to approve the recommendation, with support from Trustee Mosallam.
THE BOARD VOTED to approve the resolution.

E. Proposed Creation of an Institute for Integrative Toxicology

It was recommended that the Board of Trustees re-constitute the existing Center for Integrative Toxicology, re-naming and re-establishing the unit as the Institute for Integrative Toxicology.

BE IT RESOLVED, that the Board of Trustees hereby establishes the Institute for Integrative Toxicology, superseding and subsuming the previous Center for Integrative Toxicology, with immediate effect.

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

THE BOARD VOTED to approve the resolution.

F. Approval of Contract Terms

It was recommended that the Board of Trustees approve a contract between Michigan State University and Bioplastic Polymers and Composites, LLC, a company in which faculty member Dr. Ramani Narayan holds a financial interest.

BE IT RESOLVED, that the Board of Trustees of Michigan State University hereby approves an option extension agreement with Bioplastic Polymers and Composites, 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 BoroPharm, Inc., a company in which faculty members Dr. Robert E. Maleczka and Dr. Milton R. Smith hold a financial interest.

BE IT RESOLVED, that the Board of Trustees of Michigan State University hereby approves a lease with BoroPharm, Inc., consistent with earlier public notice given at a Board meeting and with the “Lease Term Sheet” presented to the Board. (Appendix F)
It was recommended that the Board of Trustees approve a contract between Michigan State University and HAO Tech, LLC, a company in which faculty member Dr. Gouliang Xing holds a financial interest.

BE IT RESOLVED, that the Board of Trustees of Michigan State University hereby approves a revised license agreement with HAO Tech, LLC, consistent with earlier public notice given at a Board meeting and with the “Revised 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 Metna Corporation, a company in which faculty member Dr. Parvis Soroushian holds a financial interest.

BE IT RESOLVED, that the Board of Trustees of Michigan State University hereby approves a sponsored research agreement with Metna Corporation, consistent with earlier public notice given at a Board meeting and with the “Sponsored Research 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 QuantumBio, Inc., a company in which faculty member Dr. Kenneth M. Merz, Jr. holds a financial interest.

BE IT RESOLVED, that the Board of Trustees of Michigan State University hereby approves a sponsored research agreement with QuantumBio, Inc., consistent with earlier public notice given at a Board meeting and with the “Sponsored Research Agreement Term Sheet” presented to the Board. (Appendix I)

It was recommended that the Board of Trustees approve a contract between Michigan State University and QuantumBio, Inc., a company in which faculty member Dr. Kenneth M. Merz, Jr. holds a financial interest.

BE IT RESOLVED, that the Board of Trustees of Michigan State University hereby approves a sponsored research agreement and deployment agreement with QuantumBio, Inc., consistent with earlier public notice given at a Board meeting and with the “Sponsored Research and Deployment Agreement Term Sheet” presented to the Board. (Appendix J)
It was recommended that the Board of Trustees approve a contract between Michigan State University and QuantumBio, Inc., a company in which faculty member Dr. Kenneth M. Merz, Jr. holds a financial interest.

BE IT RESOLVED, that the Board of Trustees of Michigan State University hereby approves a sponsored research development and deployment agreement with QuantumBio, Inc., consistent with earlier public notice given at a Board meeting and with the “Sponsored Research Development and Deployment Agreement Term Sheet” presented to the Board. (Appendix K)

It was recommended that the Board of Trustees approve a contract between Michigan State University and Supremo, a Michigan sole proprietorship owned by faculty member Dr. Jan Eberle, a professor in the Department of Music.

BE IT RESOLVED, that the Board of Trustees of Michigan State University hereby approves a purchase agreement with Supremo, consistent with earlier public notice given at a Board meeting and with the “Purchase Agreement Term Sheet” presented to the Board. (Appendix L)

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 Alphabet Energy, Inc., a California corporation. Dr. Donald T. Morelli, a Professor in the Department of Chemical Engineering & Material Science, and members of his family have, or have options to buy, an interest in the company.

9. Trustee Comments

Trustee Ferguson stated that MSU does more with less and that the Board can disagree without being disagreeable.

Trustee Woodard thanked President Simon for her leadership.
Trustee Mosallam thanked Vice President Beekman and Dave Byelich for their work on the budget process. Trustee Mosallam congratulated Dean Gupta and thanked the Lasch family for its generous donation.

Trustee Foster said that everyone continues to work together to make MSU a great investment and a great value.

Trustee Byrum said that she was excited about the upcoming groundbreaking of the MSU Medical Research Building in Grand Rapids.

Trustee Breslin thanked his colleagues for the robust discussion regarding tuition.

Trustee Lyons welcomed Dean Gupta and thanked the Skandalaris and Lasch families for their donations.

10. Public Participation on Issues Not germane to the Agenda.

   A. Diversity/Faculty Retention

   William Terrill, MSU professor of Criminal Justice, said that he and his wife were recently recruited by the University of Arizona. Professor Terrill said that he provided the written offer to the Department and was told that he and his wife should accept the offer. Professor Terrill acknowledged that improvements could be made and that he and his wife have worked diligently to improve the status of the program. Professor Terrill said that the Board should demand greater accountability from departments across campus.

   B. Football Tailgating

   Greg Farnsworth, MSU community member, said that high-level athletes have been recruited to MSU due to the family atmosphere. Mr. Farnsworth noted that the family atmosphere disappears on game days when some tailgaters take advantage of MSU’s loose alcohol policy. The campus is no longer family friendly. Mr. Farnsworth stated that the tailgating rules are not followed by many fans. Mr. Farnsworth suggested that tailgating lots open four hours prior to kick-off, that a buffer zone be created around the stadium where no drinking is allowed, and that announcements be played within Spartan Stadium reminding fans to act responsibly.
11. 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,

[Signature]

William R. Beekman
Vice President and Secretary of the Board of Trustees
The following actions which include the award of tenure are recommended to be effective July 1, 2015

**Promotion to Associate Professor, Effective July 1, 2015**

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<th>Organization Name</th>
<th>Tenure Department</th>
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**10004000 - COLLEGE OF ARTS AND LETTERS**

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**10006000 - ARTS & HUMANITIES, RESIDENTIAL COLL IN**

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**10008000 - ELI BROAD COLLEGE OF BUSINESS**

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**10010000 - COLLEGE OF COMMUNICATION ARTS SCIENCES**

MSU is an affirmative-action, equal-opportunity employer.
The following actions which include the award of tenure are recommended to be effective July 1, 2015

### Promotion to Associate Professor, Effective July 1, 2015

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#### 10014000 - COLLEGE OF EDUCATION

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#### 10016000 - COLLEGE OF ENGINEERING

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#### 10022000 - COLLEGE OF HUMAN MEDICINE

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#### 10028000 - LYMANN BRIGGS COLLEGE

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#### 10032000 - COLLEGE OF NATURAL SCIENCE

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MSU is an affirmative-action, equal-opportunity employer.
RESEARCH PRESENTATION
TO THE MSU BOARD OF TRUSTEES
JUNE 17, 2015

CHERYL KERFELD
COLLEGE OF NATURAL SCIENCE

Facilitated by the Office of the Vice President for Research and Graduate Studies
Cheryl A. Kerfeld is the Hannah Distinguished Professor of Structural Bioengineering in the DOE Plant Research Laboratory and the Department of Biochemistry and Molecular Biology at Michigan State University. She also holds appointments with the Physical Biosciences Division of Lawrence Berkeley National Laboratory and the Berkeley Synthetic Biology Institute. Her research group focuses on structure-based characterization and engineering of photoprotection and the carbon concentrating mechanism in cyanobacteria; her group is also developing bacterial microcompartment-based systems for metabolic engineering. The Kerfeld group combines methods in bioinformatics, cellular imaging, synthetic and structural biology for the engineering bacterial metabolism. Cheryl received her BA in Biology and English from the University of Minnesota, has a Master’s in English Literature from the University of Minnesota via Regents’ Scholars Program and a PhD in Biology from UCLA.
Structural Bioengineering of Photosynthesis

Cheryl Kerfeld
MSU-DOE Plant Research Lab
Department of Biochemistry and Molecular Biology
Structural Bioengineering of Photosynthesis

Factory Design and Construction
Assembling the Parts

Enzymes (machinery)  Shell (factory walls)

Factory Assembly
Factory Assembly

Design, Test and Install

Improving photosynthesis
Plant Production of High-Value Products
Microbial Cell Factories
Acknowledgements

- Colleagues in the MSU-DOE Plant Research Laboratory, Department of Biochemistry and Molecular Biology and AgBioResearch

- Hannah Endowment
**ATTACHMENT A**

**29.00 SMOKING, USE AND SALE OF TOBACCO PRODUCTS**

29.01 * Use of Tobacco Products and Smoking Prohibited

29.02 * Sale of Tobacco Products Prohibited

29.03 Definitions

29.04 Exceptions

.01 * No person shall (a) smoke, or (b) otherwise use any product derived from or containing tobacco, on any property governed by the Board.

.02 * Products derived from or containing tobacco may not be sold on any property governed by the Board.

.03 For the purpose of this Ordinance:

To “smoke” means inhaling, exhaling, burning, or carrying any lighted or heated tobacco or plant product intended for inhalation, whether natural or synthetic. To “smoke” also includes the use with any such tobacco or plant product of a pipe or hookah; of any electronic smoking device which creates, in any manner, an aerosol or vapor, in any form; or of any other oral smoking device.

“Products derived from or containing tobacco" include, without being limited to, cigarettes (including clove, bidis, kreteks), electronic cigarettes, aerosol or vapor nicotine delivery devices, cigars and cigarillos, pipe tobacco, hookah-smoked products, and oral tobacco (spit and spitless, smokeless, chew, snuff).

.04 Notwithstanding the foregoing, all FDA-approved nicotine replacement therapy products are permitted when used for purposes of cessation. Other exceptions to this Ordinance may be authorized by the Secretary of the Board pursuant to guidelines issued by the Secretary of the Board.

Enacted: September 15, 1964
Amended: May 16, 1969
Amended: December 10, 1994
Amended: October 13, 1995
Amended: August 1, 2016

* Denotes Civil Infraction
EXHIBIT A

35.50* Taxicab regulation; license or permit required

.50* Taxicab Regulation: The Police Chief and Director of Public Safety is hereby authorized to prohibit the operation of any taxicab or other vehicle for hire on campus which does not bear a current and valid license or permit issued by a duly authorized state or local regulatory body. For purposes of this section, vehicles for hire shall include personal vehicles operated through ride-sharing networks. Taxicab drivers and drivers for hire shall be required to present proof of compliance to police officers upon request. The Department of Police and Public Safety shall maintain and make available to the campus community a current list of local authorized taxicab companies and drivers for hire.
OPTION EXTENSION AGREEMENT TERM SHEET

Party: Bioplastics Polymers and Composites, LLC

Option: Option on Patent Rights

Term: Extending term of previous Option Agreement to June 30, 2016, further extendable upon mutual agreement

Technology:

MSU Invention Disclosure No. TEC2044-0132 “Bulk Reactive Extrusion Polymerization of 1,4-Dioxin-2-One Producing Thermal Stabilized 1,4-Dioxin-2-One (Co)polymers”

MSU Invention Disclosure No. TEC2006-0079 “Novel Tryglycerides and Method of Preparation Thereof”

MSU Invention Disclosure No. TEC2009-0007 “Moisture Curable Natural Oil and Fat Composition and Preparation Thereof”

MSU Invention Disclosure No. TEC2015-0081 “Polyols from Biomass and Polymeric Products Produced Therefrom”

MSU Invention Disclosure No. TEC2015-0127 “Interpenetrating Polymer Networks Derived from Silylate Tryglyceride Oils and Polysiloxanes”

U.S. Patent Nos. 7,361,727; 8,110,036; 8,217,193; 8,349,032; and 9,000,103; and U.S. Patent Application No. 14/034,611 with international counterparts

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: Environmentally friendly printers

Payment Terms: $5,000 option fee payable within 30 days of effective date

Services Provided:
By MSU Bioplastic Polymers and Composites, LLC:
None contemplated under agreement
By Bioplastic Polymers and Composites, LLC to MSU: None contemplated under agreement

Use of University Facilities/Personnel: None

Organization Type: Michigan limited liability company

Personnel Interest:
Dr. Ramani Narayan, a Professor in the Department of Chemical Engineering, and members of his family own or have options to buy an equity interest of more than 1% of the company. Dr. Narayan is also an officer of Bioplastic Polymers and Composites, LLC.
LEASE TERM SHEET

Party: BoroPharm, Inc.

Agreement: Lease for 5,424 square feet of assignable laboratory suite space in Rooms 239 and 246 of the 200-wing of MSU Bioeconomy Institute in Holland, MI

Term: Six months, with company option to extend for an additional twenty-four months

Contractual Terms: $10,170 monthly, triple net rent. Free parking for BoroPharm, Inc. employees on the Institute's surface lot. Use of incidental office services (e.g., photocopying) at the Institute's then-current standard rate sheet during the lease term.

Services Provided: By MSU to BoroPharm, Inc.: incidental services by mutual agreement, as provided in the contract terms

By BoroPharm, Inc. to MSU: None contemplated under agreement

Use of University Facilities/Personnel: Incidental use of MSU services/personnel by BoroPharm, Inc. at rates set forth in the contractual terms

Organization Type: Delaware corporation headquartered in Novi, Michigan with R&D facilities in Ann Arbor, Michigan

Personnel Interest: Dr. Robert E. Maleczka, Professor and Chairperson in the Department of Chemistry, and Dr. Milton R. Smith, Professor 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.
REVISED LICENSE AGREEMENT TERM SHEET

Party: HAO Tech, LLC

License: Exclusive license on copyright to computer code in the field of sleep monitoring and breathing monitoring

Term: Ten years from the effective date of the agreement

Technology: MSU Invention Disclosure No. TEC2014-0044

"iSleep: Unobtrusive Sleep Monitoring System Using Smartphones"

MSU Invention Disclosure No. TEC2014-0015

"Monitoring and Optimizing Breath and Footsteps During Exercise Using Smartphones"

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: Sleep monitoring for individual well-being or activity tracking

Payment Terms: Equity position of 5% in HAO Tech, LLC. Payment of a running royalty of 8% on net sales and related advertising income; 50% on all sublicensing revenues.

Services Provided: By MSU to HAO Tech, LLC: None contemplated under agreement

By HAO Tech, LLC to MSU: None contemplated under agreement

Use of University Facilities/Personnel: None

Organization Type: Michigan limited liability company

Personnel Interest: Dr. Gouliang Xing, an Associate Professor in the Department of Computer Science and Engineering, and members of his family own or have options to buy an ownership interest of more than 1% of the
company. Dr. Xing is also a member of HAO Tech, LLC.
SPONSORED RESEARCH AGREEMENT TERM SHEET

Party: Metna Corporation


Term: July 1, 2015 to June 30, 2016

Payment Terms: $37,000 to MSU for testing and evaluation services

Services Provided: By MSU to Metna: testing and evaluation of various concrete formulations
By Metna to MSU: none contemplated under agreement

Use of University Facilities/Personnel: Dr. Ventkatesh Kodur, a Professor in the Department of Civil and Environmental Engineering will engage in research and provide the services described above.

Organization Type: Delaware corporation based in Lansing, Michigan

Personnel Interest: Dr. Parviz Soroushian, a Professor in the Department of Civil and Environmental Engineering, and members of his family own or have options to buy an ownership interest of more than 1% of the company. Dr. Soroushian is also the President of Metna Corporation.
SPONSORED RESEARCH AGREEMENT TERM SHEET

Party: QuantumBio, Inc.

Sponsored Research Agreement: Subcontract under National Institutes of Health ("NIH") grant number 1R44GM112406-01, entitled "Development and Deployment of the Movable Type Method for Drug Discovery and Design"

Term: September 10, 2014 to March 9, 2015*

Technology’s Potential Commercial Utilization: Pharmaceutical companies employ this type of methodology in their quest for new drugs.

Payment Terms: $49,500 to MSU to fund the research

Services Provided: By MSU to QuantumBio, Inc.: Validate the performance of MSU’s Movable Type (MT) algorithm to predict the free energy of binding a drug molecule to a receptor and also to predict how a drug molecule binds into the pocket of a protein receptor. This in silico validation of MT will enhance the scientific and commercial viability of this methodology for use to discover new drugs in the pharmaceutical industry.

By QuantumBio, Inc. to MSU: None contemplated under agreement

Use of University Facilities/Personnel: Institute for Cyber Enabled Research/Dr. Kenneth M. Merz

Organization Type: Delaware corporation

Personnel Interest: Dr. Kenneth M. Merz, Jr., a Professor in the Departments of Chemistry and Biochemistry & Molecular Biology, and members of his family own or have options to buy an ownership interest of more than 1% of the company. Dr. Merz is also an officer of the company.

*QuantumBio was awarded this NIH grant after Dr. Merz came to MSU from the University of Florida. The work under this contract is complete. QuantumBio is ready to transfer the funds if the MSU Board approves this agreement. The
delay in seeking approval for this agreement results from miscommunications between QuantumBio and MSU's Office of Sponsored Programs.
SPONSORED RESEARCH AND DEPLOYMENT AGREEMENT TERM SHEET

Party: QuantumBio, Inc.

Research Agreement: Subcontract under National Institutes of Health ("NIH") grant number 4R44GM099411-02, entitled "Research and Deployment of a Quantum Mechanical NMR Tool for Fragment Based Drug Discovery – Phase II"*

Term: March 10, 2015 through May 31, 2016*

Technology’s Potential Commercial Utilization: Pharmaceutical companies employ this type of design methodology in their quest for new drugs.

Payment Terms: $50,000 to MSU to fund research (the remainder of the funds granted to Dr. Merz under the grant prior to his joining MSU from the University of Florida)

Services Provided: By MSU to QuantumBio, Inc.: Validate the performance of MSU’s Automatic Fragmentation Quantum Mechanical/Molecular Mechanical ("AF-QM/MM") NMR chemical shift prediction tool to predict the structure of a drug molecule bound to a receptor. This validation will enhance the scientific and commercial viability of this in silico computational tool to accelerate the discovery of novel drug molecules in the pharmaceutical industry.

By QuantumBio, Inc. to MSU: None contemplated under agreement

Use of University Facilities/Personnel: Institute for Cyber Enabled Research/Dr. Kenneth M. Merz

Organization Type: Delaware corporation

Personnel Interest: Dr. Kenneth M. Merz, Jr., a Professor in the Departments of Chemistry and Biochemistry & Molecular Biology, and his family own or have options to buy an ownership interest of more than 1% of the company. Dr. Merz is also an officer of the company.
*QuantumBio was awarded this NIH grant while Dr. Merz was employed at the University of Florida. MSU recruited Dr. Merz after his work on the grant began. Only recently has QuantumBio approved the sub-award for the work to be continued at MSU. The Office of Sponsored Programs did not learn of this phase of the research from the faculty member until late April 2015. MSU’s fulfillment of this phase of the research is complete in advance of the expiration of the term and transfer of funds will be made upon execution of the contract.
SPONSORED RESEARCH DEVELOPMENT AND DEPLOYMENT AGREEMENT TERM SHEET

Party: QuantumBio, Inc.

Research Agreement: Subcontract under National Institutes of Health ("NIH") grant number 4R44GM099411-02, entitled "Development and Deployment of the Movable Type Method for Drug Discovery and Design – Phase II".

Term: March 10, 2015 through February 28, 2017.

Technology’s Potential Commercial Utilization: Pharmaceutical companies employ this type of design methodology in their quest for new drugs.

Payment Terms: $196,838 to MSU to fund research

Services Provided: By MSU to QuantumBio, Inc.: Further validate the performance of the Movable Type (MT) algorithm to predict the free energy of binding a drug molecule to a receptor and also to predict how a drug molecule binds into the pocket of a protein receptor. This will be accomplished by the examination of both freely available validation test sets of drug/protein complexes, but will also be tested via collaborations with select pharmaceutical companies on their internal data sets. This further in silico validation of MT will enhance the scientific and commercial viability of this methodology for use to discover new drugs in the pharmaceutical industry.

By QuantumBio, Inc. to MSU: None contemplated under agreement

Use of University Facilities/Personnel: Institute for Cyber Enabled Research/Dr. Kenneth M. Merz

Organization Type: Delaware corporation

Personnel Interest: Dr. Kenneth M. Merz, Jr., a Professor in the Departments of Chemistry and Biochemistry & Molecular Biology, and members of his family own or have options to buy an ownership interest of more than 1% of the company. Dr. Merz is also an officer of the company.
*QuantumBio was awarded this NIH grant after Dr. Merz came to MSU from the University of Florida. The Moveable Type Method was originally developed at, and a patent application for it filed by, the University of Florida. Both inventors have since joined the faculty at MSU. Under the terms of an Inter-institutional Agreement, the patent rights are now co-owned by the University of Florida and MSU. The research is ongoing; work under this contract has already started. The Office of Sponsored Programs did not learn of this phase of the research from the faculty member until late April 2015. QuantumBio is ready to transfer funding for this phase of the research upon execution of the contract.
PURCHASE AGREEMENT TERM SHEET

Party: Supremo*
Agreement: Purchase Agreement for a Josef EGS-1 English Horn, case, swab, and two bocals
Payment Terms: $8,800*
Services Provided: By MSU to Supremo: None contemplated under agreement
By Supremo to MSU: None contemplated under agreement

Use of University Facilities/Personnel: None
Organization Type: Michigan sole proprietorship
Personnel Interest: Dr. Jan Eberle, a Professor in the College of Music, owns Supremo.

*Supremo is the only authorized US supplier of the Josef EGS-1 Horn. The only other supplier is in Germany. Supremo is offering to sell the horn to MSU at a discount of 20% off the list price of $10,980.