

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

February 6, 2015

President Simon called the meeting of the Board of Trustees to order at 9:30 a.m. in the Board Room.

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

Trustee absent: Brian Breslin

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, and Swain. Faculty liaisons present: Martin Crimp, William Davidson II, Phylis Floyd, Deborah Moriarty, and Mary Noel. Student liaisons present: Emily Bank, James Conwell, Dontae Freeman, and Adam Grajewski.

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

1. On a motion by Trustee Ferguson, supported by Trustee Foster, the **BOARD VOTED to approve** the agenda.
2. On a motion by Trustee Ferguson, supported by Trustee Mosallam, the **BOARD VOTED to approve** the minutes of the December 12, 2014 and January 8, 2015 Board of Trustees meetings.
3. President's Report

President Simon provided the following report to the Board.

A. Student Achievements

David Zoltowski, an Honors college senior studying electrical engineering, was recently named a Churchill Scholar, becoming the seventeenth such scholar in MSU's history and one of only 14 across the country. David is also captain of the MSU varsity swimming and diving team.

The MSU debate team finished first in a field of nearly 50 teams at the University of Miami debate tournament last month. James Madison seniors Jack Caporal and Quinn Zemel made up the winning team.

Two MSU student-built cars—a solar vehicle and a formula racecar—were on display at this year's North American International Auto Show. Leonidas, MSU's solar-powered car, made its first appearance this year.

Seven MSU students earned MSU's Martin Luther King Jr. Advancing Inclusion Through Research award for research papers and creativity projects that promote inclusive excellence and diversity. This year's competition was part of Project 60/50. Students will receive awards during the University Excellence and Diversity Program on February 16.

The Student Organic Farm was ranked eighth among the top 20 best college farms in a recent national review.

B. Faculty and Staff Achievements

Michigan Music Educators Association named Cynthia Taggart, a professor of Music Education, as Music Educator of the year. She'll receive the honor at the 2015 annual conference in Grand Rapids.

MSU Chemistry Professor Marcos Dantus was named a fellow of the American Physical Society, an honor signifying recognition by his professional peers. Dantus is one of 18 members of the Society's Division of Atomic, Molecular, and Optical Physics.

A group of MSU faculty, staff, and graduate students received an award for outstanding writing in the Recreational Sports Journal.

Financial Aid Director Rick Shipman recently received the Michigan Student Financial Aid Association Lifetime Achievement Award honoring his exceptional career as a financial aid professional.

Next Tuesday, February 10, MSU will recognize outstanding faculty, staff, and graduate students at the annual awards convocation in the Pasant Theatre.

C. University- Wide Accomplishments

MSU continues to appear in both national and global rankings as a leader in environmental sustainability. MSU is number 27 in a list of the best global universities for environment and ecology. MSU is also listed among the top 100 universities "Doing Green Right" by the Best College Ranking.

The Carnegie Foundation for the Advancement of Teaching has selected MSU to receive its 2015 Community Engagement Classification, recognizing MSU's commitment to aligning its mission, culture, resources, and practices with efforts in community engagement.

Military Advanced Education has named MSU a top school in its 2015 guide to colleges and universities, recognizing MSU as a university that is dedicated to accommodating veterans and service members. The MSU ROTC program also received a high ranking from the publication.

MSU's online master's degree programs in education and nursing continue to climb in national rankings. According to U. S. News and World Report Best Online Programs, MSU's online graduate program in education ranked 13th, rising ten spots over the last ten years.

MSU was selected by President Obama as a core partner in the newly formed Institute for Advanced Composite Manufacturing Innovation, highlighting MSU's continued excellence as a nationally recognized leader in the field of composite materials. MSU will serve as a primary academic partner in the State of Michigan.

MSU has also been highlighted as a national leader in breastfeeding best practices in higher education, as a result of the continuing work of MSU's Family Resource Center under the directorship of Lori Strom.

D. Facility and Infrastructure Report

President Simon introduced Dan Bollman, Assistant Vice President for Strategic Infrastructure Planning and Facilities, to provide a summary of the infrastructure and facilities report. The report is available at www.ipf.msu.edu.

4. There was no Public Participation on Issues Germane to the Agenda.

5. Personnel Actions

Provost Youatt presented the following personnel actions:

Johnson, Jennifer E, AN - CS Mott Associate Professor, College of Human Medicine; Department of Family Medicine, \$175,000, with Tenure, effective January 5, 2015.

Dantonio, Mark J, AN - Head Coach-Football, Intercollegiate Athletics, Subject to Contract, effective January 15, 2020 to January 14, 2021.

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

THE BOARD VOTED to approve the recommendations.

6. Gift, Grant and Contract Report

Vice President Hsu presented and requested approval of the Gifts, Grants, and Contracts Report for the period of November 12, 2014 through January 5, 2015. The report is a compilation of 298 Gifts, Grants and Contracts plus 59 Consignment/Non-Cash Gifts, with a total value of \$44,316,988.

Trustee Byrum **moved to approve** the report, supported by Trustee Ferguson.

THE BOARD VOTED to approve the report.

Vice President Hsu introduced Dr. Erik Shapiro, Associate Professor, Radiology and Osteopathic Medicine, who made a presentation to the Board on "Nanomaterials, Stem Cells and Biomedical Imaging: Molecular and Cellular MRI at MSU". (Appendix A)

7. Finance Committee

Trustee Foster presented the Trustee Finance Committee Report and the following recommendations and resolutions.

A. Appointment of External Investment Advisory Subcommittee Member

It was recommended that the Board of Trustees appoint Joel Wittenberg to fill a mid-term vacancy on the Investment Advisory Subcommittee.

Be it resolved, that the Board of Trustees of Michigan State University hereby appoints Joel Wittenberg as an external member of the Investment Advisory Subcommittee for a two-year term ending December 31, 2016.

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

THE BOARD VOTED to approve the resolution.

B. Authorizations to Plan

1. Hubbard Hall - Exterior Masonry Repair

It was recommended that the Board of Trustees hereby authorize the Administration to plan for the restoration of Hubbard Hall's exterior facade.

Be it resolved, that the Board of Trustees of Michigan State University hereby authorizes the Administration to plan for the restoration of Hubbard Hall's exterior facade.

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

THE BOARD VOTED to approve the resolution.

2. Engineering Building - Chiller Replacement and Chilled Water Loop

It was recommended that the Board of Trustees authorize the Administration to amend the scope of planning for the replacement of the chillers at the Engineering Building to include installation of a chilled water loop connecting the Engineering Building and several other buildings in the vicinity.

Be it resolved, that the Board of Trustees of Michigan State University hereby authorizes the Administration to amend the scope of planning for the project entitled "Engineering Building - Chiller Replacement and Chilled Water Loop".

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

THE BOARD VOTED to approve the resolution.

C. Project Approval - Authorizations to Proceed

1. New Intercollegiate Golf Building

It was recommended that that the Board of Trustees authorize the Administration to proceed with the construction of a new facility for the men's and women's intercollegiate golf teams.

Be it resolved, that the Board of Trustees of Michigan State University hereby authorizes the Administration to proceed with the project entitled "New Intercollegiate Golf Building", with a budget of \$6,000,000.

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

THE BOARD VOTED to approve the resolution.

2. Bio Engineering Facility - Build-Out Remainder of Floors Three and Four

It was recommended that that the Board of Trustees authorize the Administration to proceed with the build-out of the remainder of the third and fourth floors of the Bio Engineering Facility.

Be it resolved, that the Board of Trustees of Michigan State University hereby authorizes the Administration to proceed with the project entitled "Bio Engineering Facility - Build-Out Remainder of Floors Three and Four", with a budget of \$9,000,000.

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

THE BOARD VOTED to approve the resolution.

3. Grand Rapids - Real Estate and Research Facility Development

It was recommended that the Board of Trustees authorize the Administration to expand MSU's research capabilities in Grand Rapids by constructing a facility on the site where the former Grand Rapids Press building was demolished.

Be it resolved, that the Board of Trustees of Michigan State University hereby authorizes the Administration to proceed with the project entitled "Grand Rapids - Real Estate and Research Facility Development", with a project budget of \$85,100,000.

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

THE BOARD VOTED to approve the resolution.

4. Cyclotron Building - Office Addition - Phase III

It was recommended that the Board of Trustees authorize the Administration to proceed with an addition to the Cyclotron building.

Be it resolved, that the Board of Trustees of Michigan State University hereby authorizes the Administration to proceed with the project entitled "Cyclotron Building - Office Addition - Phase III", with a project budget of \$29,400,000.

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

THE BOARD VOTED to approve the resolution.

8. Policy Committee

Trustee Byrum presented the Trustee Policy Committee Report and the following recommendations and resolutions.

A. Approval of Contract Terms

It was recommended that the Board of Trustees approve a contract between Michigan State University and BioPhotonic Solutions, Inc., a company in which faculty member Dr. Marcos Dantus holds a financial interest.

Be it resolved, that the Board of Trustees approves a patent license option agreement with BioPhotonic Solutions, Inc., consistent with earlier public notice given at a Board meeting and with the "Option Agreement Term Sheet" now presented to the Board for inclusion in its minutes. (Appendix B)

It was recommended that the Board of Trustees approve a contract between Michigan State University and Retia Medical, LLC, a company in which faculty member Dr. Ramakrishna Mukkamala holds a financial interest.

Be it resolved, that the Board of Trustees approves a third party research use permission and option agreement with Retia Medical, LLC, consistent with earlier public notice given at a Board meeting and with the "Third Party Research Use Permission and Option Agreement Term Sheet" now presented to the Board for inclusion in its minutes. (Appendix C)

Trustee Byrum **moved to approve** the resolution, with support from Trustee Foster.

THE BOARD VOTED to approve the resolution.

B. Notice of Intent to Negotiate Contracts

Pursuant to State law, the Chair of the Policy Committee to give a public notice of the University's intent to negotiate contracts with Jolt Energy Storage Technologies, LLC, a Michigan company. (Appendix D)

Dr. Thomas F. Guarr, the Director of R&D at the MSU Bioeconomy Institute in Holland, Michigan, owns or has options to buy an ownership interest of more than 1% of the company.

Pursuant to State law, the Chair of the Policy Committee to give a public of the University's intent to negotiate contracts with Powertron Systems, Inc., a Delaware corporation. (Appendix E)

Dr. Fang Peng, a professor in the Department of Electrical and Computer Engineering, and his family own or have options to buy an ownership interest of more than 1% of the company. Dr. Peng will also serve as an officer of the company.

Pursuant to State law, the Chair of the Policy Committee to give a public notice of the University's intent to negotiate an MSU Press publishing contract with Professor Rita Kiki Edozie. Professor Edozie is the Director of African American and African Studies in the College of Arts & Letters and a faculty member in James Madison College. (Appendix F)

9. Audit Committee

Trustee Foster presented the Audit Committee Report and recommendations on behalf of Trustee Breslin.

It was recommended that the Board of Trustees reappoint Plante & Moran as the University's external auditors for the 2014-2015 fiscal year at a fee of \$328,850 in accordance with the University's policy on the rotation of auditors.

Be it resolved, that the Board of Trustees of Michigan State University hereby reappoints Plante & Moran as the University's external auditors for the 2014-2015 fiscal year at a fee of \$328, 850 in accordance with the University's policy on the rotation of auditors.

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

THE BOARD VOTED to approve the resolution.

In addition, Trustee Foster noted that the Audit Committee met and received information regarding the search process for selecting a new director of internal audit, as Tom Luccock is planning to retire soon.

10. Compensation Committee

Trustee Mosallam advised that the Trustee Compensation Committee had nothing to report.

11. Chairperson's Report

Trustee Ferguson reminded everyone of the State of the University Address scheduled for February 10, 2015 and highlighted the Faculty Awards that will be presented following President Simon's address. He forecasts that Michigan State University will be better this year than last year.

A. Trustee Comments

Trustee Woodard had no comments.

Trustee Mosallam had no comments.

Trustee Foster thanked Emily Bank, Adam Grajewski, and Dantae Freeman for their participation as student liaisons to the Board and for

the great dialogue during the breakfast meeting preceding the Board of Trustees meeting.

Trustee Byrum advised that the Faculty Liaison Committee also had a breakfast meeting and asked Deborah Moriarty to address the Board. Ms. Moriarty mentioned the new relationship violence and sexual misconduct policy, which requires faculty training in the form of an eLearning course. The Faculty Senate has reviewed the content of the course. The faculty's participation in the development of the course has been positive and productive. Trustee Byrum added that this is a good first step and the eLearning course will be shared with the Board of Trustees once it is completed.

Trustee Perles had no comments.

Trustee Lyons thanked Dr. Shapiro for his presentation. He commented that he admires the passion of everyone at Michigan State University and he is proud to be a part of it.

12. Public Participation on Issues Not Germane to the Agenda.

A. MSU Anti-Cancer Society – Banning smoking on campus

Mr. Tristan Worthington, President of the MSU Anti-Cancer Society and student, stated that the organization is fairly new, but is quickly up and running. The mission of the MSU Anti-Cancer Society is to limit the frequency of cancer in the next generation. Its members support a variety of causes, which include the campaign to make MSU a smoke-free campus. The organization conducted a survey and petition drive, which returned 1,500 responses of concerned students who support the campaign.

Ms. Clare O'Kane, Chairperson of Public Relations for the MSU Anti-Cancer Society and a student, stated that, given its mission and what has been done with the campaign so far, the organization was elated to learn of the initiation of the task force to transition Michigan State to a tobacco-free campus. The organization commends all involved, especially Provost Youatt. The organization has significant student support for this effort. The organization plans to continue to advocate for change, educate about the dangers of second-hand smoke to everyone on campus, and serve as a resource for the campaign. Its members would like to serve as a bridge between the administration and student body. She thanked the administration on behalf of the 50,000 students on campus for taking this step towards a positive and healthy learning environment for everyone on campus.

B. Disabled Veterans Assistance Program

Mr. Bryan Chapman addressed the Board of Trustees. In 2009, the Disabled Veterans Assistance Program (DVAP) was established. Mr. Chapman chose to attend MSU by utilizing DVAP, but described himself as a casualty of the program. He is not currently enrolled as a student. He advised that the veterans are not being tracked. When he originally enrolled, 12 individuals were utilizing the program at MSU. Currently, there are 11. DVAP was a fully funded program, but he was informed that his funding had expired and he then received notice of student loans. He explained that the DVAP is a work in progress and that he is being negatively affected by its flaws. He advised that several other veterans are experiencing the same problems with the program. Mr. Chapman expressed his desire for this program to be a success. He said that he needs 35 credits to graduate, but the challenges that he is currently facing are prohibiting him from completing his degree.

13. Request to Adjourn

On a motion by Trustee Byrum, supported by Trustee Ferguson, **THE BOARD VOTED to adjourn** at 10:20 a.m.

Respectfully submitted,



William R. Beekman
Vice President and
Secretary of the Board of Trustees

RESEARCH PRESENTATION

TO THE MSU BOARD OF TRUSTEES

FEBRUARY 6, 2015

ERIK M. SHAPIRO, PHD

MOLECULAR AND CELLULAR IMAGING
LABORATORY

DEPARTMENTS OF RADIOLOGY, PHYSIOLOGY
AND CHEMICAL ENGINEERING
MICHIGAN STATE UNIVERSITY COLLEGES OF
MEDICINE

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

Erik Shapiro is an Associate Professor of Radiology and serves as Research Director of the Radiology Department. He also has courtesy appointments in Physiology and Chemical Engineering and is a member of the Neuroscience Program and the Comparative Medicine and Integrative Biology Program.

Erik received his PhD in Chemistry from the University of Pennsylvania in 2001 and did a post-doctoral fellowship at the National Institutes of Health - NIH, where he garnered a Fellows Award for Research Excellence in 2005. Erik was hired as an Assistant Professor at Yale University School of Medicine in 2006 in the Departments of Diagnostic Radiology and Biomedical Engineering. The highlight of Erik's career at Yale was being awarded the NIH Director's New Innovator Award in 2008. It is the highest honor NIH awards junior investigators. Enticed by the opportunity to build an imaging enterprise and to help grow a Biomedical Engineering Program, Erik was successfully recruited here to MSU in 2012.

Nanomaterials, regenerative medicine and biomedical imaging: Molecular and Cellular MRI at MSU

Erik M. Shapiro, PhD

Molecular and Cellular Imaging Laboratory

Departments of Radiology, Physiology and Chemical Engineering

Michigan State University Colleges of Medicine

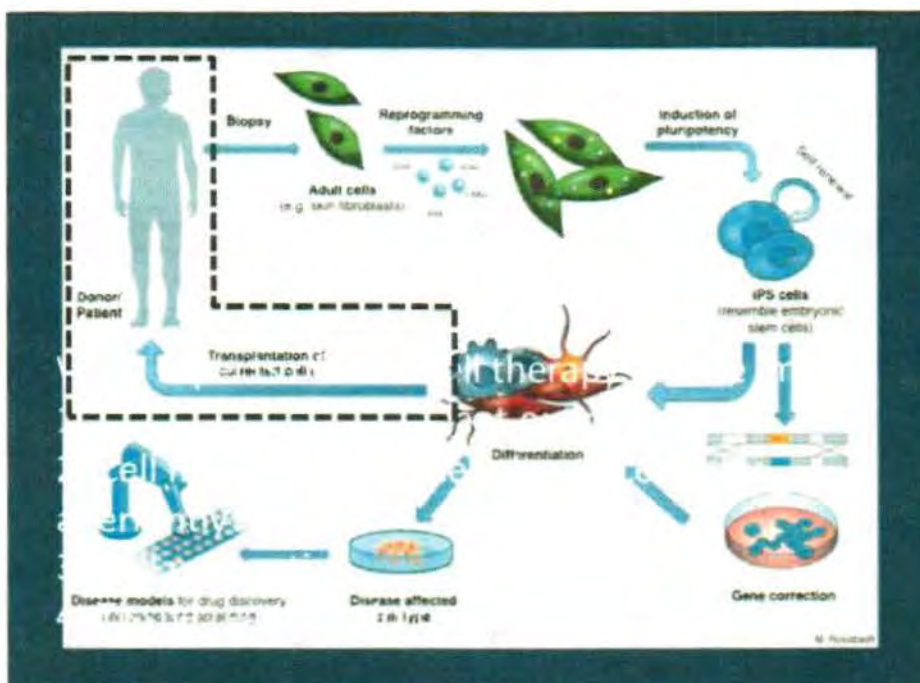
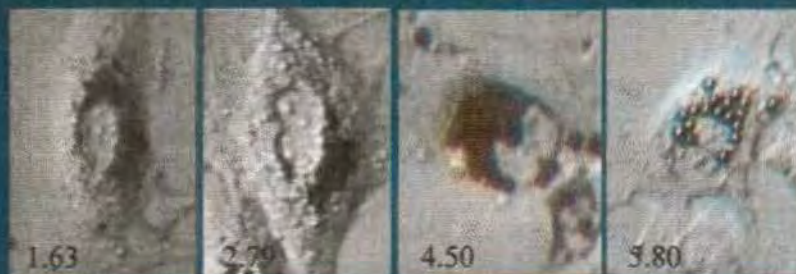


Image contrast based on lots of processes; water content, flow, magnetic, electronic, diffusive environments

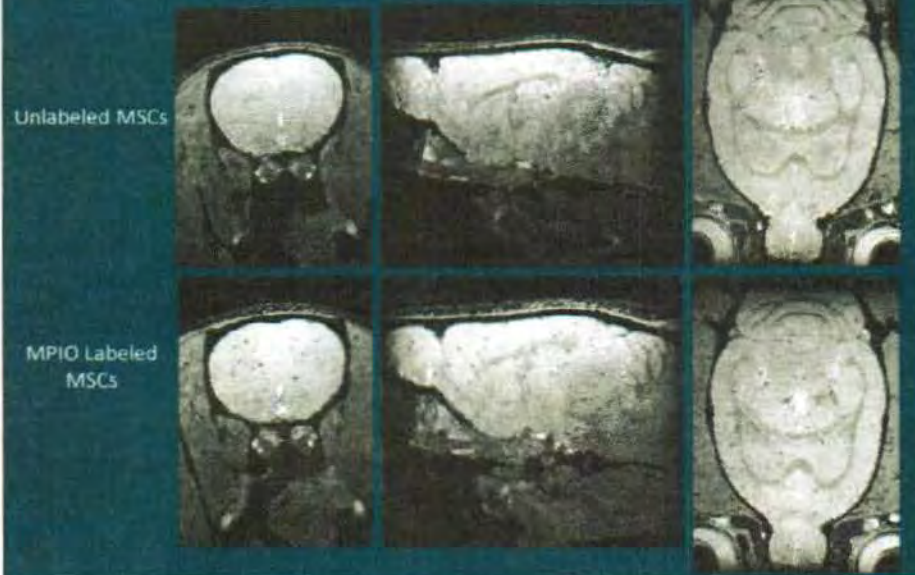


Sizing It Up: Cellular MRI Using Micron-Sized Iron Oxide Particles

Erik M. Shapiro,* Stanko Skrtic, and Alan P. Korotsky



MRI can detect single stem cells



Serial monitoring of endogenous neuroblast migration by cellular MRI

Dorit Granot^a, Dustin Scheinost^a, Eleni A. Markakis^a, Xenios Papademetris^{a,b}, Erik M. Shapiro^{a,b,c}

^a Department of Radiology, Radcliffe Laboratory, Harvard Medical School, Boston, MA 02115

^b Department of Biomedical Engineering, Harvard School of Engineering, Boston, MA 02138

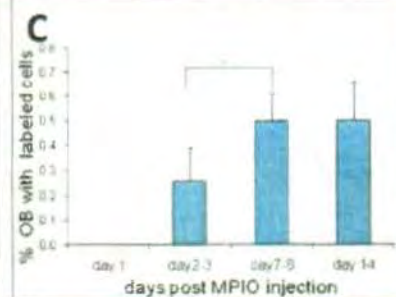
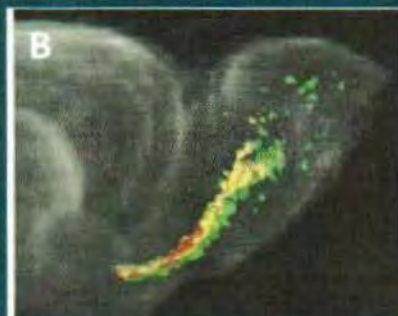
NeuroImage 57 (2011) 817–824



1 Day

3 Days

7 Days



Clinically Viable Magnetic Poly(lactide-co-glycolide) Particles for MRI-Based Cell Tracking

Dorit Granot,¹ Michael K. Nkansah,^{1,2} Margaret F. Bennewitz,^{1,2} Kevin S. Tang,^{1,2} Eleni A. Markakis,^{1,3} and Erik M. Shapiro^{1,2,3}



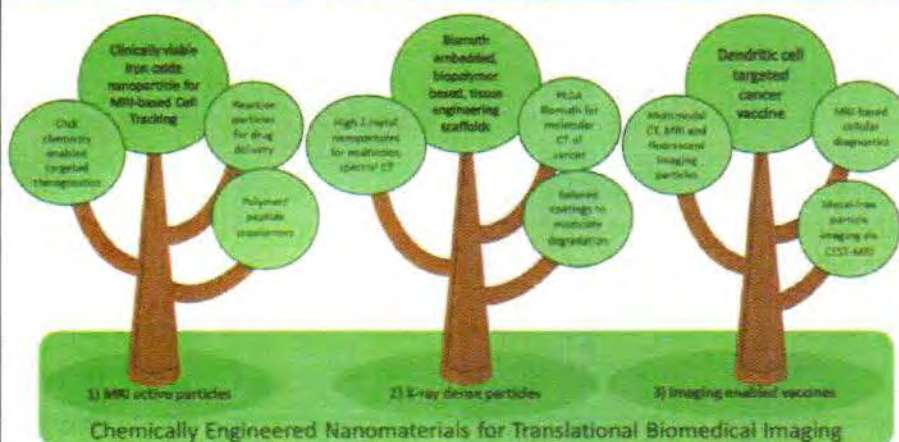
Table 1

Physical and MRI Characteristics of the Different Magnetic PLGA Particles Made for This Study, Showing Particle Size and Iron Oxide Content

Particle characteristics	Nanoparticles			Microparticles		
Magnetite:PLGA	0:1	1:1	2:1	0:1	1:1	2:1
Particle size, nm	105 ± 57	96 ± 54	154 ± 65	2100 ± 1300	500 ± 500	800 ± 190
Magnetite content, wt%	0	36.7	83.7	0	58.2	96.1
χ , $\text{cm}^3/\text{mol} \times 10^{27}$	—	7.96	28.5	—	44.7	96.1
r_2 , s ⁻¹ /mM (particle)	—	8.91×10^3	3.95×10^3	—	1.891×10^{11}	2.11×10^{11}
r_2 , s ⁻¹ /mM (iron)	—	659.1	243	—	334.7	814.7
r_2 , s ⁻¹ /mM (particle)	—	2.98×10^3	3.07×10^3	—	1.85×10^{11}	3.75×10^{11}

Particle size values are mean ± s.d. $n = 50$ particles.

MSU Foundation Grant: Chemically Engineered Nanomaterials for Translational Biomedical Imaging





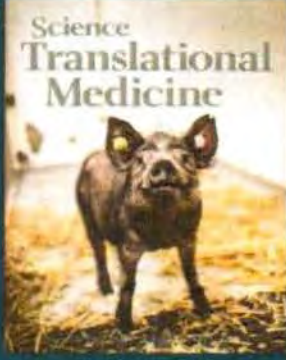
Improving Animal Models for Regenerative Medicine

NIH Symposium • May 23–24, 2012 • Lister Hill Auditorium, NIH Bethesda, MD

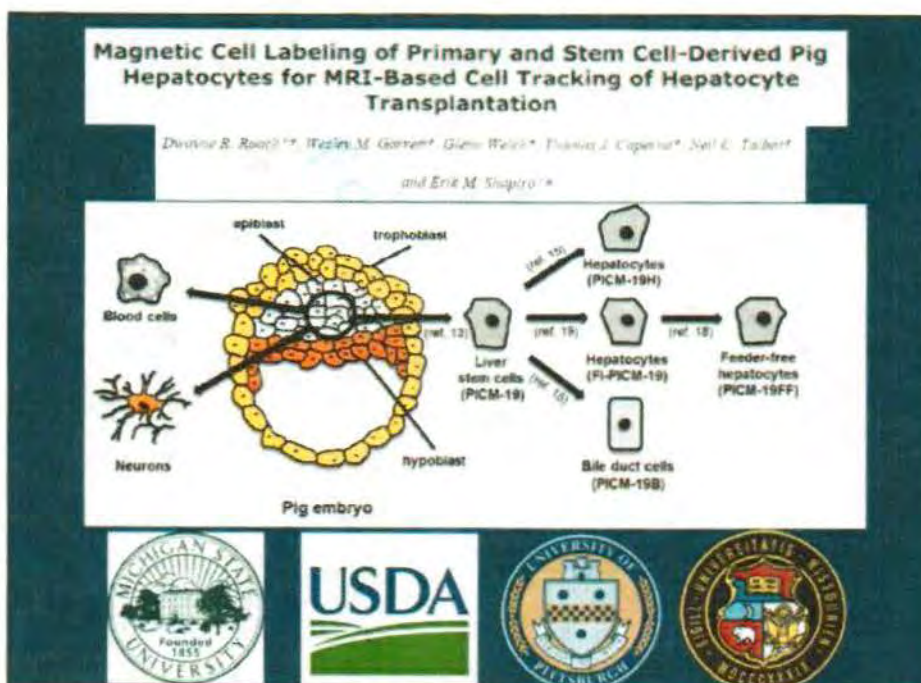
For information about this event, please contact RegenerativeMedicine@lmhps.com.

National Institutes of Health, OD
 Office of Research Intramural Programs
 Division of Comparative Medicine

- Imaging is essential for developing, monitoring therapy
- Large animal models critical for progressing regenerative medicine, cancer
- Pigs likely to play a leading role
- Pig stem cells valuable resource



January 2013



Summary

- We have designed MRI experiments for visualizing regenerative medicine
- We are optimizing nanomaterials for clinical utility and to monitor cell maturation
- We are moving towards large animal models of disease
- Thinking boldly: MSU has the unique opportunity to be a world leader in large animal models of disease and regenerative medicine by integrating animal science and biotechnology, with biomedical and genetic engineering.

Acknowledgements

MSU Collaborators

- Robert Wiseman
- Ron Meyer
- Kathy Gallo
- Vilma Yuzbasiyan-Gurkan
- Xiaoming Liu
- Arun Ross
- Xuefei Huang

MSU MCIL

- Dr. Dorela Shuboni
- Dr. Christiane Mallett
- Dr. Maciej Parys
- Dr. Shatadru Chakravarty
- Dr. Barbara Blanco-Fernandez
- Matt Latourette
- Jamal Afridi
- Stacey Forton
- Jason Unold
- Eric Swy
- Kyle Anderson
- Aaron Schwartz-Duval

THE
DANA
FOUNDATION

National Institutes of Health

CT.gov
CONNECTICUT

MSU STATE UNIVERSITY FOUNDATION


Yale Center for Clinical Investigation

MICHIGAN STATE UNIVERSITY

January 23, 2015

MEMORANDUM

To: Trustee Policy Committee

From: June Youatt, Provost 

Re: Approval of Contract Terms: *BioPhotonic Solutions, Inc.*

Recommendation:

The Trustee Policy Committee recommends that the Board of Trustees approve a contract between Michigan State University and *BioPhotonic Solutions, Inc.*, a company in which faculty member Dr. Marcos Dantus holds a financial interest.

Resolution:

BE IT RESOLVED that the Board of Trustees approves a patent license option agreement with *BioPhotonic Solutions, Inc.*, consistent with earlier public notice given at a Board meeting and with the "Option Agreement Term Sheet" now presented to the Board for inclusion in its minutes.

Background:

In compliance with State law, public notice of the University's intent to negotiate contracts with *BioPhotonic Solutions, Inc.*, a Michigan corporation based in East Lansing, Michigan, was given at the Board of Trustees meeting on October 10, 2003. The terms of a patent license option agreement are now being presented for approval.

Dr. Marcos Dantus, a Professor in the Department of Chemistry, and his immediate family own or have options to buy an ownership interest of more than 1% of the company. Dr. Dantus is also an officer of *BioPhotonic Solutions, Inc.*

The attached "Option Agreement Term Sheet" summarizes the agreement that MSU has negotiated with *BioPhotonic Solutions, Inc.*

cc: Trustee Finance Committee
 President Lou Anna K. Simon
 Executive Vice President Satish Udpa
 Vice President and Secretary Bill Beekman
 Vice President Steve Hsu
 Vice President Robert A. Noto



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Faculty Conflict of Interest Officer Brian Mattes
Deputy General Counsel Kristine Zayko
Assistant General Counsel Connie Berg

OPTION AGREEMENT TERM SHEET

Party: BioPhotonic Solutions, Inc.

License: Option on patent rights

Term: From the effective date of the agreement to December 31, 2015

Technology: MSU Invention Disclosure:
TEC2014-0096 "Laser Pulse Fidelity Measurement" including Provisional U.S. Patent Application Serial No. 62/008,568

Field of Use: Laser Pulse Fidelity Measurement

Payment Terms: \$1,000 fee payable within 30 days

Services Provided: By MSU to BioPhotonic Solutions, Inc.: None contemplated under agreement
By BioPhotonic Solutions, Inc. to MSU: None contemplated under agreement

Organization Type: Michigan corporation based in East Lansing

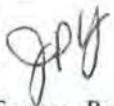
Personnel Interest: Dr. Marcos Dantus, a Professor in the Department of Chemistry, and his immediate family own or have options to buy an ownership interest of more than 1% of the company. Dr. Dantus also serves as an officer of BioPhotonic Solutions, Inc.

MICHIGAN STATE UNIVERSITY

January 20, 2015

MEMORANDUM

To: Trustee Policy Committee

From: June Youatt, Provost 

Re: Approval of Contract Terms: *Retia Medical, LLC*

Recommendation:

The Trustee Policy Committee recommends that the Board of Trustees approve a contract between Michigan State University and *Retia Medical, LLC*, a company in which faculty member Dr. Ramakrishna Mukkamala holds a financial interest.

Resolution:

BE IT RESOLVED that the Board of Trustees approves a third party research use permission and option agreement with *Retia Medical, LLC*, consistent with earlier public notice given at a Board meeting and with the "Third Party Research Use Permission and Option Agreement Term Sheet" now presented to the Board for inclusion in its minutes.

Background:

In compliance with State law, public notice of the University's intent to negotiate contracts with *Retia Medical, LLC* (formerly known as *Hemodynamic Monitoring Solutions, LLC*), a Delaware limited liability company based in East Lansing, Michigan, was given at the Board of Trustees meeting on June 17, 2011. The terms of a third party research use permission and option agreement are now being presented for approval.

Dr. Ramakrishna Mukkamala, a Professor in the Department of Electrical and Computer Engineering, and his family own or have options to buy an ownership interest of more than 1% of the company. Dr. Mukkamala is also a member of the company.

The attached "Third Party Research Use Permission and Option Agreement Term Sheet" summarizes the agreement that MSU has negotiated with *Retia Medical, LLC*.

cc: Trustee Finance Committee
 President Lou Anna K. Simon
 Executive Vice President Satish Udpa
 Vice President and Secretary Bill Beekman
 Vice President Steve Hsu
 Vice President Robert A. Noto



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Faculty Conflict of Interest Officer Brian Mattes
Deputy General Counsel Kristine Zayko
Assistant General Counsel Connie Berg

THIRD PARTY RESEARCH USE PERMISSION AND OPTION AGREEMENT TERM SHEET

Party: Retia Medical, LLC

License: Option on improvements developed by MSU in connection with the performance of a grant awarded from the National Institutes of Health (grant award number: 1U01EB018818-01)

Technology: MSU Invention Disclosure: TEC2010-0098 "Methods and Apparatus for Determining Arterial Pulse Wave Velocity" including U.S. Patent Application No. 13/816,427

Payment Terms: None under the Third Party Research Use Permission and Option Agreement; however, the payment structure under the Exclusive License Agreement between MSU and Retia Medical, LLC, dated March 5, 2012, would remain in place

Services Provided: By MSU to Retia Medical, LLC: None contemplated under agreement
By Retia Medical, LLC to MSU: None contemplated under agreement

Organization Type: Delaware limited liability company based in East Lansing, Michigan

Personnel Interest: Dr. Ramakrishna Mulkamala, a Professor in the Department of Electrical and Computer Engineering, and his family own or have options to buy an ownership interest of more than 1% of the company. Dr. Mulkamala is also a member of the company.

MICHIGAN STATE UNIVERSITY

January 20, 2015

MEMORANDUM

To: Trustee Policy Committee
 From: June Youatt, Provost *JY*
 Re: Notice of Intent to Negotiate Contracts with *Jolt Energy Storage Technologies, LLC*

Pursuant to State law, the Chair of the Policy Committee is requested to give public notice of the University's intent to negotiate contracts with *Jolt Energy Storage Technologies, LLC*, a Michigan company.

Dr. Thomas F. Guarr, the Director of R&D at the MSU Bioeconomy Institute in Holland, Michigan, owns or has options to buy an ownership interest of more than 1% of the company.

As negotiations progress, detailed information about proposed contracts with *Jolt Energy Storage Technologies, LLC* will be provided to the Board for its review in accordance with State law.



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 Vice President Robert A. Noto
 Senior Associate Vice President Paul Hunt
 Faculty Conflict of Interest Officer Brian Mattes
 Deputy General Counsel Kristine Zayko
 Assistant General Counsel Connie Berg

MICHIGAN STATE UNIVERSITY

Attachment 2.b

January 20, 2015

MEMORANDUM

To: Trustee Policy Committee

From: June Youatt, Provost *JY*

Re: Notice of Intent to Negotiate Contracts with *Powertron Systems, Inc.*

Pursuant to State law, the Chair of the Policy Committee is requested to give public of the University's intent to negotiate contracts with *Powertron Systems, Inc.*, a Delaware corporation.

Dr. Fang Peng, a professor in the Department of Electrical and Computer Engineering, and his family own or have options to buy an ownership interest of more than 1% of the company. Dr. Peng will serve as an officer of the company.

As negotiations progress, detailed information about proposed contracts with *Powertron Systems, Inc.* will be provided to the Board for its review in accordance with State law.



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cc: Trustee Finance Committee
President Lou Anna K. Simon
Executive Vice President Satish Udpa
Vice President and Secretary Bill Beekman
Vice President Steve Hsu
Vice President Robert A. Noto
Faculty Conflict of Interest Officer Brian Mattes
Deputy General Counsel Kristine Zayko
Assistant General Counsel Connie Berg

MICHIGAN STATE UNIVERSITY

Attachment 2.c

January 20, 2015

MEMORANDUM

To: Trustee Policy Committee

From: June Youatt, Provost *JY*

Re: Notice of Intent to Negotiate a Publishing Contract with *Prof. Rita Kiki Edozie*

Pursuant to State law, the Chair of the Policy Committee is requested to give public notice of the University's intent to negotiate an MSU Press publishing contract with Professor Rita Kiki Edozie. Professor Edozie is the Director of African American and African Studies in the College of Arts & Letters and a faculty member in James Madison College.

As negotiations progress, detailed information about the proposed publishing contract with Professor Edozie will be provided to the Board for its review in accordance with State law.



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