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

### December 13, 2013

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

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

Trustee absent: George Perles

University officers present: President Simon, Acting Provost Youatt, Executive Vice President Udpa, Vice President and Secretary Beekman, Vice President and General Counsel Noto, Vice Presidents Flinn, Haas, Hsu, Gore, Groves, Maybank, and Swain, and Senior Advisor and Director Granberry Russell. Faculty liaisons present: Sue Carter, William Davidson II, William Donohue, Deb Moriarty and Mariam Stricklen. Student liaisons present: Zachary DeRade, Stefan Fletcher, and Jalen Garrett.

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

- 1. On a motion by Trustee Owen, supported by Trustee Byrum, the **BOARD VOTED to approve** the agenda.
- On a motion by Trustee Owen, supported by Trustee Breslin, the BOARD VOTED to approve the minutes of the Board meeting of October 25, 2013.
- 3. Board of Trustees Award Presentations

Trustees Breslin and Ferguson presented the Board of Trustees Award to the following students:

- 1. Joshua Corteville—Major: Physiology; Member of the Honors College; 3.9770 GPA
- 2. Stephanie DeBolle—Major: Human Biology; 4.0 GPA
- 3. Tracie Green—Major: Communication; Member of the Honors College; 4.0 GPA

- 4. Evan Pennisi----Major: Accounting; 4.0 GPA
- 5. Zachary Reed—Major: Finance; Member of the Honors College; 4.0 GPA

Trustees Breslin and Ferguson acknowledged the Board of Trustees Award recipient who was not able to attend:

- 6. Craig Miller—Major: Mechanical Engineering; 4.0 GPA
- 4. President's Report

President Simon presented the following report to the Board.

A. Commencement

Mary Sue Coleman, President of the University of Michigan, will be speaking at the Advanced Degree Ceremony on Friday and will receive an honorary Doctor of Laws Degree. Jim Hackett, Chief Executive Officer of Steelcase, and Sergio Marchionne, Chief Executive Officer of Chrysler, will be speaking at the Baccalaureate Ceremonies in the morning and afternoon, respectively, and will also be receiving honorary degrees. Additional honorary degree recipients include Julie Mehretu and William White.

B. CASE Award Winner

The Spartans WILL. 360 President's Report won a CASE gold award and the Theresa DuBois Exline Award for Best Practices in Communications and Marketing. These awards reflect not only the high quality of the creative work, but the excellent CABS-wide collaborative approach.

C. Top 10 for International Student Enrollment/Study Abroad

MSU ranks in the top 10 for international student enrollment and study abroad participation, according to the Institute of International Education's annual Open Doors Report released November 11, 2013. MSU ranks ninth in the nation for the number of enrolled international students, according to the report, and earned the number four slot for study abroad participation with 2,380 MSU students studying overseas in 2011-12.

D. FRIB Project Manager Named AAAS Fellow

MSU Distinguished Professor Thomas Glasmacher has been named an AAAS Fellow by the American Association for the Advancement of Science. This national recognition is awarded to researchers for their efforts to advance science or its applications. During the last five years, 28 MSU faculty members have been named AAAS Fellows.

E. Supply Chain Professor Appointed to State Commission

MSU supply chain expert David Closs has been appointed to a newly-formed State commission on transportation and logistics by Governor Rick Snyder. Closs is chair of the Department of Supply Chain Management and John H. McConnell professor of business at the Broad College of Business. He has served as a Broad College faculty member for 35 years and has worked with more than 100 Fortune 500 corporations on logistics issues.

F. Director of MSU Knight Center

Pulitzer Prize-winner Eric Freedman has been named Knight Chair and director of the John S. and James L. Knight Center for Environmental Journalism at MSU. Housed in the College of Communication Arts and Sciences, the Knight Center teaches student and professional journalists how better to report on environmental and science issues.

G. 2013 ASA Fellow

Bruno Basso, associate professor in the Department of Geological Sciences, has been named a 2013 American Society of Agronomy Fellow. Basso was honored with 17 other fellows at the 2013 ASA annual meeting on November 5, 2013.

H. Marshall Scholar

Dean Cynthia Jackson-Elmoore presented Craig Person, MSU's 16<sup>th</sup> Marshall Scholar.

I. Packaging Students Donate 100 Gifts to Children in Need

The MSU School of Packaging collected 100 gifts for underprivileged children in the Lansing area solely through the effort and generosity of its students. President Simon thanked all student groups for reaching out to those in need.

J. Nelson Mandela Remembrance Program

The MSU Museum remembered Nelson Mandela with a special program led by Cajetan "CJ" Iheka, doctoral student in the Department of English and the 2013 Nelson Mandela Museum/MSU Museum Graduate Curatorial Fellow at the Nelson Mandela Museum in Eastern Cape, South Africa. Nelson Mandela received an honorary degree from MSU in May 2008.

K. Ron Flinn Resolution

Trustee Breslin presented a Board of Trustees resolution honoring Vice President Flinn. (Appendix A)

L. Staff Appreciation

Executive Vice President Udpa introduced a staff appreciation video.

- 5. There was no Public Participation on Issues Germane to the Agenda.
- 6. Personnel Actions

Acting Provost Youatt presented the following personnel actions:

Garcia, Elizabeth, AY—Associate Professor, Department of Counseling, Educational Psychology, and Special Education, \$105,000, with Tenure, effective January 1, 2014.

Herriges, Joseph, AY—Professor, Departments of Economics; Agricultural, Food, and Resource Economics; Environmental Science and Policy Program, \$192,000, with Tenure, effective August 16, 2014.

Dawkins, Kemel W, AN—Vice President for Strategic Infrastructure Planning and Facilities, \$240,000, Executive Management, effective January 1, 2014.

Lacy, Stephen R., AY—Professor, School of Journalism, for a change in title to Acting Dean, College of Communication Arts and Sciences, and for a change from an AY to AN basis with a change in salary to \$202,795, effective February 1, 2014.

The following actions include tenure recommendations which were delayed last Spring. They are recommended by the Department Chairpersons/School Directors, the Deans, and the Provost in accordance with the tenure rules. The following promotions include the award of tenure and are recommend to be effective January 1, 2014.

Shupp, Robert S, promotion to Associate Professor, Department of Agricultural, Food, and Resource Economics.

Wagner, Michael, promotion to Associate Professor, Department of Fisheries and Wildlife.

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

THE BOARD VOTED to approve the recommendations.

7. Gifts, Grants, and Contracts

Vice President Hsu presented the Gifts, Grants, and Contracts Report for the period of August 28, 2013 through November 26, 2013. The report is a compilation of 798 Gifts, Grants and Contracts plus 89 Consignment/Non-Cash Gifts, with a total value of \$125,063,842.

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

**THE BOARD VOTED to approve** the Gifts, Grants, and Contracts Report.

Vice President Hsu introduced Dr. Suresh Mukherji, Professor and Chairman, Walter F. Patenge Endowed Chair in the Department of Radiology, who made a presentation to the Board on major initiatives in the Department of Radiology. (Appendix B)

8. Finance Committee

Trustee Owen presented the Trustee Finance Committee Report and recommendations.

A. New Investment Manager

It was recommended that the Board of Trustees select Ardian as an investment manager.

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

THE BOARD VOTED to approve the recommendation.

B. New Investment Manager—Edgbaston Investment Partners Limited

It was recommended that the Board of Trustees select Edgbaston Investment Partners Limited as an investment manager.

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

THE BOARD VOTED to approve the recommendation.

C. New Investment Manager—Pennant Capital Management, LLC

It was recommended that the Board of Trustees select Pennant Capital Management, LLC as an investment manager.

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

THE BOARD VOTED to approve the recommendation.

D. Authorization to Plan—Parking Lot 97 (Engineering Research) Expansion

It was recommended that the Board of Trustees authorize the Administration to plan for the project entitled Parking Lot 97-(Engineering Research) Expansion.

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

THE BOARD VOTED to approve the recommendation.

E. Project Approval—Authorization to Proceed—Akers Hall Dining and Life Safety Renovation

It was recommended that the Board of Trustees authorize the Administration to proceed with the project entitled Akers Hall Dining and Life Safety Renovation, and that it approve a budget of \$20,600,000.

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

THE BOARD VOTED to approve the recommendation.

F. Project Approval—Authorization to Proceed—Clinical Center—C-Wing HVAC Replacement

It was recommended that the Board of Trustees authorize the Administration to proceed with the project entitled Clinical Center-C-Wing HVAC Replacement, and that it approve a budget of \$8,500,000.

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

THE BOARD VOTED to approve the recommendation.

9. Policy Committee

Trustee Byrum presented the Trustee Policy Committee Report and recommendations.

A. Amendment to Bylaws for Academic Governance

It was recommended that the Board of Trustees approve an amendment to the Bylaws for Academic Governance, to establish a Faculty Health Care Council, as approved by University Council and Faculty Senate. (Appendix C)

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

THE BOARD VOTED to approve the recommendation.

B. Appointments to the MSU College of Law Board of Trustees

It was recommended that the Board of Trustees approve the appointments of the following to the MSU College of Law Board of Trustees:

Mr. Mayer Morganroth for a term of 3 years, commencing January 1, 2014, and ending December 31, 2016

Ms. Colleen McNamara for a term of 3 years, commencing January 1, 2014, and ending December 31, 2016.

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

THE BOARD VOTED to approve the recommendation.

C. Approval of Contract Terms

It was recommended to the Board of Trustees that it approve a service agreement with *CourseWeaver, Inc.,* consistent with earlier public notice given at a Board meeting and with the "Service Agreement Term Sheet" presented to the Board. (Appendix D)

It was recommended to the Board of Trustees that it approve a license agreement with *CourseWeaver, Inc.,* consistent with earlier public notice given at a Board meeting and with the "License Agreement Term Sheet" presented to the Board. (Appendix E)

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

THE BOARD VOTED to approve the recommendations.

D. Notice of Intent to Negotiate a Contract

Pursuant to State law, the Chair of the Policy Committee gave notice of the University's intent to negotiate contracts with *Hydrosimulatics, Inc.,* a Delaware corporation. Dr. Shu-Guang Li, a Professor in the Department of Civil & Environmental Engineering, and his family own or have options to buy an ownership interest of more than one percent of the company. Dr. Li will be an officer of *Hydrosimulatics, Inc.* Dr. Huasheng Liao, a Senior Research Associate in the Department of Civil & Environmental Engineering, and his family own or have options to buy an ownership interest of more than one percent of the company. Dr. Liao will also be an officer of *Hydrosimulatics, Inc.* 

10. Compensation Committee

Trustee Lyons presented the Trustee Compensation Committee Report.

Trustee Lyons reminded the MS community that each year at this time, the Board of Trustees considers the President's compensation, consistent with section 4a of the employment agreement between President Simon and the Board. The Compensation Committee has met for that purpose.

In June of this year, the Board conducted its annual evaluation of the President. At that time, the Trustees conveyed to President Simon their uniform support of her leadership of Michigan State University. Trustee Lyons stated that President Simon's leadership and dedication are widely recognized, both within and beyond the MSU community, and that she

continues to excel on the Board-established performance criteria. As a result, the Board continues to believe that the retention of President Simon is critical to the University's future.

Trustee Lyons noted that President Simon's base salary has not increased since 2007. Every year since that date, she has expressed concerns about receiving a salary increase in the context of the economic challenges facing the state and the University. This year, President Simon has continued to request that she not receive a base salary increase.

As in the past, however, the Board is compelled to ensure that the compensation of the president of Michigan State University remains competitive with the compensation of presidents of peer institutions. Consistent with the University's goals regarding faculty compensation and the retention of President Simon, it is the intention of the Board to keep the total compensation of MSU's president in the mid-range among the presidents of the public universities in the Big Ten and other comparable institutions.

Trustee Lyons reported that after weighing these factors, the Compensation Committee recommends to the Board of Trustees that President Simon's retention bonus be increased by \$25,000. As a result, in recognition of the President's continued service, and provided that she continues to serve through December 31, 2013, the University shall pay to the President, on or before January 31, 2014, the amount of \$125,000.

The Compensation Committee also recommends that, for each year during which the President provides continuing service as president through December 31 of that year, her previous retention bonus shall be increased by a percentage equal to the total percentage increase available for non-union faculty raises, including percentages for college and university-wide market pool adjustments, or equivalent amounts however defined. This retention bonus will be paid no later than January 31 of the subsequent year. The Board will continue to pay President Simon an annual salary of \$520,000 per year, as established by the Board on December 7, 2007.

Finally, Trustee Lyons said that the Board applauds the commitment that Drs. Roy J. and Lou Anna K. Simon have made to give back to the University through their generous, regular, and substantial financial contributions, including prior salary increases. Based on their current level of cash and estate giving, the Simons are members of MSU's Wharton Society and Kedzie Society. The Simons' current cash gifts to MSU exceed \$1 million. They provide a tremendous example of philanthropy for Team MSU and the Spartan community.

Trustee Lyons concluded the Compensation Committee report by stating that it recommends, and he, therefore, moved that the above terms be incorporated into President Simon's employment agreement and that the Chairperson of the Board of Trustees be authorized to sign an amendment to that employment agreement consistent with these terms on behalf of the Board.

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

THE BOARD VOTED to approve the recommendation.

11. Trustees' Comments

Trustee Ferguson said that the term Team MSU is not just a slogan, but is a reality. He thanked everyone across campus for their efforts and support of Team MSU.

Trustee Woodard said that she appreciated the video showcasing MSU staff. She congratulated the Board of Trustees Scholarship award recipients.

Trustee Lyons said that it is an honor to be a part of Team MSU and a pleasure to serve on the Board.

Trustee Owen wished everyone a happy holiday and healthy new year.

Trustee Byrum recognized the graduates and Board of Trustees Scholarship award recipients. She wished everyone a prosperous and healthy new year.

Trustee Mosallam congratulated the Board of Trustees Scholarship award recipients. He said that it had been a wonderful first year and that he appreciates the opportunity to serve.

Trustee Breslin thanked the MSU staff for keeping campus looking beautiful and running efficiently.

12. There was no Public Participation on Other Issues.

# 13. Request to Adjourn

On a motion by Trustee Ferguson, supported by Trustee Lyons, **THE BOARD VOTED to adjourn** at 10:30 a.m.

Respectfully submitted,

W Beekman

William R. Beekman Secretary of the Board of Trustees

#### RESOLUTION **HONORING RON FLINN** Michigan State University Board of Trustees December 13, 2013

The Board of Trustees of Michigan State University today extends to Ron Flinn its deep gratitude and appreciation of his exceptional service to the university as its vice president for strategic infrastructure planning and facilities.

Mr. Flinn has been a fixture on the MSU campus for more than 50 years, arriving as a student in the fall of 1957 and choosing to never leave.

As a student, Mr. Flinn was selected by none other than Ted Simon to work part-time in the Physical Plant Division. After earning his bachelor's degree in civil engineering in 1960, he stayed on as a full-time employee, working in the heating, ventilating and air conditioning area.

With hard work and good humor, Mr. Flinn worked his way up the ladder, serving as plant engineer, associate director, interim director of building services, university engineer, assistant vice president and vice president.

Mr. Flinn was one of the driving forces behind the development of south campus. Facilities such as the National Superconducting Cyclotron Laboratory, the Veterinary Clinic, the Chemistry and Biochemistry buildings and the new T.B. Simon Power Plant all came to be under his watchful eye.

During his tenure, Mr. Flinn has been involved in the design and construction of nearly 75 percent of the campus's buildings and infrastructure.

Mr. Flinn has willingly shared his expertise over the years, serving on countless university committees and initiatives, including the development of the 2020 Master Plan.

He has been nationally recognized for his contributions to MSU and his profession. He was awarded the Midwest APPA Award for Excellence in Facilities Management. He also served as president of the APPA/Association of Higher Education Facilities Officers.

Mr. Flinn, who at one time considered a career in journalism, also taught public relations and communications for physical plants for the APPA Institute for Facilities Management.

For his years of devoted service to his university, the Michigan State University Board of Trustees extends its heartfelt thanks and sincere gratitude to Ron Flinn.

Joel Eerguson.

George Perles

Dianne Byrum

Mitch Lyons

Brian Breslin

Diann

Brian Mosallam

# RESEARCH PRESENTATION TO THE MSU BOARD OF TRUSTEES

\*\*\*DECEMBER 13, 2013\*\*\*

# **SURESH MUKHERJI**

PROFESSOR & CHAIRMAN WALTER F. PATENGE ENDOWED CHAIR DEPARTMENT OF RADIOLOGY

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

### Personal Statement.

Suresh K. Mukherji, MD, FACR received his M. D. degree from Georgetown University and completed a radiology residency at the Brigham and Women's Hospital, Harvard Medical School in Boston, MA. He was a Neuroradiology Fellow, with emphasis on head and neck imaging, at the University of Florida in Gainesville, Florida from 1992-1994. His first faculty position was at the University of North Carolina from 1994-2001. He was then recruited as the Division Director of Neuroradiology at the University of Michigan in 2001 where he became tenured Professor of Radiology, Radiation Oncology, Otolaryngology Head Neck Surgery. He was also a Professor of Periodontics and Oral Medicine in the School of Dentistry. In 2013, he was recruited to become the Chairman of the Radiology Department at Michigan State University where he is Professor of Radiology and the Walter F. Patenge Endowed Chair.

Dr. Mukherji is a recognized authority in Head & Neck and Neuroradiology and has been an active contributor to the neuroradiology literature by authoring over 300 scientific manuscripts, 60 book chapters and 12 textbooks. His primary interest have been focused on investigating emerging metabolic and physiologic imaging techniques to evaluate head and neck cancer and to differentiate recurrent tumors from post-therapeutic changes in previously treated patients. These technologies include imaging with fluorodeoxyglucose analogues imaged with prototype Single Photon Emission Computed Tomography, Gamma Cameras, standard PET, and CT-PET. Other metabolic and physiologic imaging techniques he has investigated include Thallium-201, magnetic resonance spectroscopy, CT perfusion and CT spectral imaging.









Musculoskeletal:

A new experimental model of knee joint trauma. NIH R21. 7/1-2011-6/30/2013. (Co. P.I with T. Haut Donahue, Michigan Tech) \$411,800 MSU Budget \$177,807

## Department of Physiology:

Non-invasive MRI arterial-venous difference measurement of skeletal muscle oxygen consumption during isometric contractions.<sup>1</sup> Meyer, RA, Wiseman RW, Slade JM, Natalie M. Pizzimenti NM, Kasper JD, ISMRM 2013



|   |                       | MICH  | GAN STATE UNIVERSITY  |  |
|---|-----------------------|---|-----------------------|--|
| Department of Radiology Extramural Support  |                       |   |                       |  |
| "The proposed facilities in the Molecular and Cellular<br>Imaging Laboratory at Michigan State University are ideally<br>suited for this research program. The MRI instrumentation<br>and excellent associated facilities will provide needed<br>capabilities to support this research program" |                       |   |                       |  |
| CRITIQUE 1:   |                       | CRITIQUE 2:   | 1. HE 1.              |  |
| Significance:<br>Investigator(s):<br>Innovation:<br>Approach:<br>Environment:   | 1<br>1<br>2<br>2<br>1 | Significance:<br>Investigator(s):<br>Innovation:<br>Approach:<br>Environment: | 1<br>1<br>2<br>2<br>1 |  |
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#### Appendix C

Attachment 1

# MICHIGAN STATE

December, 2013

#### MEMORANDUM

| TO:                     | Board of Trustees Policy Compatible         |
|-------------------------|---|
| FROM:                   | June Pierce Youatt, Acting Provost          |
| SUBJ <mark>ECT</mark> : | Amendment to Bylaws for Academic Governance |

#### **RECOMMENDATION:**

**BE IT RESOLVED** that the Trustee Policy Committee recommends to the Board of Trustees approval of the amendment to the Bylaws for Academic Governance, to establish a Faculty Health Care Council (attached), as approved by University Council and Faculty Senate.

. 1

In accordance with those Bylaws (5.3), I have reviewed the amendment, concur with the recommendation, and now request action by the Board of Trustees.



OFFICE OF THE PROVOST

Michigan State University Hannah Administration Building 426 Auditorium Road, Room 430 East Lansing, Michigan 48824

> Phone: 517-355-6550 Fax: 517-355-9601 provost.msu.edu

#### BACKGROUND

On November, 19 2013, University Council and on November 12, Faculty Senate approved the recommended amendment to the Bylaws for Academic Governance (Attachment A), upon the recommendation of the University Committee on Academic Governance (UCAG).

A faculty ad hoc committee has functioned for several years, providing advice on faculty health care issues to the University Committee on Faculty Affairs. The faculty desire to formalize the role and function of the committee. Bylaw 5.3 establishes the addition of a Faculty Health Care Council as a consultative committee to the University Committee on Faculty Affairs.

c: Trustee Finance Committee President Simon Vice President Beekman Vice President Noto Vice President Udpa

#### Attachment A

#### Section 5 – Other University-level Committees

#### 5.3 Faculty Health Care Council

**5.3.1.** There shall be a Faculty Health Care Council to function as the faculty voice to Human Resources and University Administration on matters related to health care and health care benefits. The Faculty Health Care Council will have voice in plan design and the capacity to comment on plan implementation.

#### 5.3.2. Composition

**5.3.2.1.** The voting members of the Faculty Health Care Council shall be **nine** faculty members.

**5.3.2.2**. Ex officio members without vote shall include but not limited to Assistant Vice President and Director, Planning & Budgets.

**5.3.2.3.** One Emeritus faculty member without vote to be selected by the Faculty Emeriti Association.

#### **5.3.3. Appointment of Members**

**5.3.3.1.** Faculty members of the Faculty Health Council shall be appointed by the Steering Committee.

**5.3.3.2.** Faculty members appointed to the Faculty Health Care Council shall include those members who are actively involved in health care discussions.

**5.3.3.3.** Faculty members of the Faculty Health Care Council shall represent a diversity of faculty appointments.

#### 5.3.4. Terms of Appointment

**5.3.4.1.** The terms of appointment of faculty representatives on the Faculty Health Care Council shall be three consecutive two year terms to ensure continuity and stability of membership.

#### 5.3.5. Responsibilities of the Faculty Health Care Council

**5.3.5.1.** The Faculty Health Care Council will serve as the faculty voice on issues related to the design, implementation and evaluation of health care plans.

**5.3.5.2.** The Faculty Health Care Council will consult with the University Committee on Faculty Affairs on matters concerning the economic impact of health benefits.

**5.3.5.3.** The Faculty Health Care Council shall advocate for faculty on matters related to health care and health care benefits.

**5.3.5.4.** The Faculty Health Care Council shall report through the Steering Committee to the Faculty Senate.

#### SERVICE AGREEMENT TERM SHEET

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| Party:                                  | CourseWeaver, Inc.   |  |
|---|--|--|
| Agreement:                              | CourseWeaver to provide support services to Michigan State University's online learning management system LON-CAPA (Learning Online Network with Computer-Assisted Personalized Approach).   |  |
| Term:                                   | One year, beginning January 1, 2014, with a one year renewal option at MSU's discretion.   |  |
| Contract Terms:                         | CourseWeaver to provide technical and user support services for MSU's LON-CAPA system, including system updates, installation of software and hardware, and faculty orientation sessions on the LON-CAPA system.   |  |
| Payment Terms:                          | MSU to pay CourseWeaver based on the number of student users of the LON-CAPA system, governed by the attached pricing schedule. Pricing may be converted from one based on the number of users to a flat rate, provided that the change does not affect the financial consideration of the parties. Under a separate sponsored research agreement that the parties anticipate entering into in early 2014, Dr. Gerd Kortemeyer, an Associate Professor in the Department of Physics & Astronomy, and Mr. Stuart Raeburn, a Research Specialist in the Department of Physics & Astronomy, will assume responsibilities related to CourseWeaver's LON-CAPA support services. |  |
| Services Provided:                      | By CourseWeaver to MSU: LON-CAPA support services.<br>By MSU to CourseWeaver: none under contemplated agreement.   |  |
| Use of University Facilities/Personnel: |  |  |
|   | None.  |  |
| Organization Type:                      | CourseWeaver is a Delaware corporation based in East Lansing.  |  |

Personnel Interest:Dr. Gerd Kortemeyer, an Associate Professor in the Department of Physics &<br/>Astronomy, and his family own or have options to buy an ownership interest of more<br/>than 1% of the company. Dr. Wolfgang Bauer, a Professor in the Department of Physics<br/>& Astronomy, and his family own or have options to buy an ownership interest of more<br/>than 1% of the company.

#### LICENSE AGREEMENT TERM SHEET

| Party:   | CourseWeaver, Inc.  |  |
|--|---|--|
| License:                                       | Non-exclusive license to patent rights in connection with the online learning management system LON-CAPA (Learning Online Network with Computer-Assisted Personalized Approach).  |  |
| Term:  | One year, renewable for additional one-year periods upon mutual agreement of the parties.   |  |
| Technology:                                    | MSU Invention Disclosure No. TEC1998-0029, "Multimedia Collaborative Content Creation"  |  |
|  | U.S. Patent No. 8,504,482, "System and Method for Preparing Educational Materials";<br>U.S. Patent Application Serial No. 13/743,840, "System and Method to Facilitate<br>Creation of Educational Information"; and U.S. Patent Application Serial No.<br>13/775,862, "System and Method for Preparing and Delivering Informational Content"                                |  |
| Technology's Potential Commercial Utilization: |   |  |
|  | Online learning management systems.   |  |
| Payment Terms:                                 | \$5000 a year   |  |
|  | The parties may add or remove technologies under the 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.  |  |
| Services Provided:                             | By MSU to CourseWeaver: None under contemplated agreement   |  |
|  | By CourseWeaver to MSU: None under contemplated agreement   |  |
| Organization Type:                             | CourseWeaver is a Delaware corporation based in East Lansing.   |  |
| Personnel Interest:                            | Dr. Gerd Kortemeyer, an Associate Professor in the Department of Physics &<br>Astronomy, and his family own or have options to buy an ownership interest of more<br>than 1% of the company. Dr. Wolfgang Bauer, a Professor in the Department of Physics<br>& Astronomy, and his family own or have options to buy an ownership interest of more<br>than 1% of the company. |  |