

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

February 13, 2009

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

Trustees present: Joel Ferguson, Melanie Foster, Colleen McNamara (by telephone), Donald Nugent, Faylene Owen, George Perles (by telephone), Diann Woodard.

Trustees absent: Dianne Byrum

University officers present: President Simon, Provost Wilcox, Vice President Poston, Secretary Beekman, Vice President and General Counsel Noto, Vice Presidents Denbow, Gray, Groves, June, and Webster, Interim Executive Director Cash, and Senior Advisor and Director Granberry Russell. **Faculty liaisons present:** Deborah Moriarty, Mark Largent, James Potchen, Alvin Smucker, and Rand Spiro. **Student liaisons present:** Christopher Kuleszka, Manish Madan, Maweza Razzaq, and Michael Webber.

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

1. On a motion by Trustee Foster, supported by Trustee Nugent, the **BOARD VOTED to approve** the agenda.
2. On a motion by Trustee Woodard, supported by Trustee Foster, the **BOARD VOTED to approve** the minutes of the November 21, 2008 meeting.
3. On a motion by Trustee Nugent, supported by Trustee Woodard, the **BOARD VOTED to approve** the minutes of the December 5, 2008 meeting.
4. On a motion by Trustee Foster, supported by Trustee Woodard, the **BOARD VOTED to approve** the minutes of the January 13, 2009 meeting.

5. President's Report

A. State of the University

President Simon said that the 2009 State of the University Address and annual Awards Convocation was held on February 3. The awards program featured the recognition of many outstanding people who are part of Team MSU.

B. State of Michigan Budget

President Simon stated that Governor Granholm presented her budget proposal for its consideration by the legislature. This is the first of many steps in the State's budget process. The Governor's proposal includes a \$100 million decrease in the higher education budget. The proposed budget also includes a 50 percent reduction for MSU Extension and Experiment Station. This reduction in funds can be roughly translated into the loss of 1,000 jobs. This is an important issue for the State of Michigan and a critical issue for MSU, given the University's relationships with partners around the state.

President Simon said the Governor's executive recommendation for operations would result in a 3.1 percent decrease for MSU in State support for MSU. President Simon noted that the University has not yet approved a budget for the coming fiscal year.

President Simon stated that MSU's goal will be to reduce costs in every way possible, while maintaining an institutional commitment both to quality and access. She noted that MSU is very people dependent, such that when costs are reduced, the number of employees reduced. Provost Wilcox and Vice President Poston are working on a set of budget strategies. Conversations will continue to take place and ideas will be exchanged between now and the next Board meeting in April.

Trustee Ferguson stated that MSU has been operating efficiently for many years and that it will continue to work very hard to do all the things that are necessary to become even more efficient. He further stated that if MSU is still in need of funds, the Board is not averse to raising tuition in order to preserve the quality of education at MSU. Trustee Ferguson stated that if tuition needs to be increased, it will not be because of the action the Board is taking. Rather, it will be due to the action that the State of Michigan is

taking by not supplying the funds necessary to maintain quality and access at Michigan State University.

C. Dubai Accreditation

President Simon noted that Dr. June Youatt, Senior Associate Provost, recently returned from Dubai and reported a successful visit to Dubai by the Higher Learning Commission site visitor. Due to the hard work of many individuals, MSU Dubai received a very good review the accrediting body.

D. MSU Named Home to IBM Delivery Center

President Simon stated that IBM announced the creation of a Global Delivery Center for Application Services to be located on the MSU campus. The Global Delivery Center will be the first of its kind in the United States for IBM. IBM's presence on campus will result in many opportunities for collaboration between MSU and IBM. For example, IBM and MSU will collaborate to educate students and recent graduates on application development techniques.

E. MSU Wins \$400,000 from Coca-Cola Co. to Create Packaging Innovation, Sustainability Center

President Simon noted that Coca-Cola had awarded \$400,000 to MSU's College of Agriculture and Natural Resources to help establish a new center for packaging innovation and sustainability. The planned center will be housed in the MSU School of Packaging. It will serve as a think tank for packaging innovation and sustainability and as a research and education hub to measure and reduce packaging's environmental impact.

F. Michigan Association of Chiefs of Police Traffic Safety Award for 2008

President Simon reported that the MSU Police Department had won the Michigan Association of Chiefs of Police Traffic Safety Award for 2008. This award is given out to the Michigan police agency that has had the most success improving traffic safety through programs and enforcement in the state of Michigan.

G. Disabled Veterans Assistance Program

President Simon said that Michigan State University is offering a new financial aid program that will allow disabled veterans to earn a

college degree without the burden of loans. MSU's Disabled Veterans Assistance Program will cover all education-related costs, including tuition, fees, room and board, and books and other incidentals, beginning in Fall of 2009. President Simon thanked to Chairman Ferguson for suggesting that MSU create and implement such an important program.

H. MSU Engineer Elected to National Academy of Engineering

President Simon noted that Percy Pierre, Professor of Electrical and Computer Engineering Emeritus at MSU and former Vice President for Research and Graduate Studies, has been elected to the National Academy of Engineering. Election into the academy is among the highest professional honors accorded to an engineer. This well deserved honor brings distinction not only to Dr. Pierre, but to the College of Engineering and MSU as well.

I. Kurt Dewhurst Elected President of the American Folklore Society

Kurt Dewhurst, a senior fellow with University Outreach and Engagement at MSU, has been elected President of the American Folklore Society, a 2,200 member organization of scholars, teachers, librarians, and cultural workers founded in 1888. Dewhurst, MSU Museum Director since 1983, helped found the Museum's nationally known folk life research, collection development, and outreach programs.

J. 2008 Presidential Award for Higher Education Community Service

MSU's Center for Service Learning and Civic Engagement is one of only six recipients selected from among 635 institutions of higher learning for the 2008 President's Award by the Corporation for National and Community Service. The award is the highest federal recognition a college or university can receive for its commitment to volunteering, service learning, and civic engagement.

K. IEEE Fellow

Leo Kempel, Professor of Electrical and Computer Engineering, was named an Institute of Electrical and Electronics Engineers (IEEE) Fellow. IEEE Fellowship is one of the most prestigious honors the IEEE bestows upon a very limited number of Senior Members who have made outstanding contributions to the electrical and information technologies and sciences for the benefit of humanity and the profession. Professor Kempel was honored

for his contributions to conformal antenna design and electromagnetic composite materials.

L. MSU Number Three in Peace Corps Rankings

With 89 alumni currently serving as Peace Corps volunteers, MSU ranks third among the nation's largest universities producing volunteers, according to 2009 Peace Corps rankings. The number three slot is MSU's highest to date, although the University has remained on the Peace Corps' Top Colleges and Universities list since the start of the ranking system in 2001.

M. Smithsonian Event for Presidential Inauguration

Michigan State University's debate team tackled the Obama administration's energy and climate priorities for its first 100 days as part of the first-ever Inauguration Debate Series held January 19, in the nation's capital.

O. Bob Weiss

President Simon noted the passing of former MSU Trustee and Judge Bob Weiss. Judge Weiss was a strong supporter of MSU and a friend to many. He was committed to his community and to MSU.

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

7. Personnel Actions

Provost Wilcox presented the following appointments:

Baird, William V., AY—Professor, Department of Horticulture, \$140,000, with Tenure, effective July 1, 2009.

Weisenbenner, Scott J., AY—A.J. Pasant Professor in Finance, Department of Finance, \$250,000, with Tenure, effective January 1, 2009.

Greenberg, Bradley, AN—University Distinguished Professor Emeritus, Chairperson Emeritus, and Interim Dean, College of Communication Arts and Sciences, Department of Communication, \$185,000, effective January 15, 2009.

Risinger, John I., AN—Associate Professor, Department of Obstetrics, Gynecology and Reproductive Biology, \$170,000, with Tenure, effective March 15, 2009.

Colaresi, Michael P., AY—Associate Professor, Department of Political Science, \$108,000, with Tenure, effective December 1, 2008.

Mueller, Norbert, H., promotion to Associate Professor, Department of Mechanical Engineering.

President Simon presented the following appointment:

Dantonio, Mark, J., AN—Head Coach—Football, Intercollegiate Athletics, Subject to Contract, effective January 15, 2013 to January 14, 2014.

Trustee Owen **moved to approve** the appointments, with support by Trustee Foster.

Provost Wilcox stated that Professor Baird has a Ph.D. from the University of Virginia. He has been at Clemson University since 1989 and has research interests in molecular genetics.

Provost Wilcox said that Professor Weisbenner has been at the University of Illinois/Urbana-Champaign in the Department of Finance since 2000. He received a Ph.D. from the Massachusetts Institute of Technology in 1999.

Provost Wilcox said that Professor Greenberg has agreed to serve as Interim Dean during the search for the permanent Dean. As a former Professor and Chairperson in the College of Communication Arts and Sciences, Professor Greenberg is very familiar with issues within the College.

Provost Wilcox stated that Professor Risinger has been a Associate Member of the Curtis and Elizabeth Anderson Cancer Institute at the Memorial University Medical Center and an Associate Professor of Obstetrics and Gynecology at Mercer University School of Medicine in Savannah, Georgia.

Provost Wilcox said that Professor Colaresi has been at the University of Colorado as an Associate Professor of Political Science since 2008. His research interests include rivalry and conflict and interaction between domestic and international politics.

THE BOARD VOTED to approve the appointments.

8. Gifts, Grants, and Contracts

It was recommended that the Board of Trustees approve the Gift, Grant and Contract Report for the period of November 20, 2008 through January 30, 2009. The report is a compilation of 331 Gifts, Grants and Contracts and 63 Consignment/Non-Cash Gifts with a total value of \$53,276,806.

Trustee Nugent **moved to approve** the recommendation, with support by Trustee Owen.

Vice President Gray introduced Dr. Mark Kornbluh, Director of MATRIX, for a research presentation regarding MATRIX; a research center that is devoted to humanities and social science technology. (Appendix A)

9. Finance Committee

Trustee Owen presented the Trustee Finance Committee Report and recommendations.

A. Fund Functioning as an Endowment—CAS Dean's Strategic Initiatives Fund

It was recommended that the Board of Trustees establish a fund functioning as endowment entitled CAS Dean's Strategic Initiatives Fund.

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

THE BOARD VOTED to approve the recommendation.

B. Investment Manager—Aberdeen Asset Management, PLC

It was recommended that the Board of Trustees select Aberdeen Asset Management, PLC as an investment manager.

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

THE BOARD VOTED to approve the recommendation.

C. Long Term Property Lease with the Chippewa County Soil Conservation District

It was recommended to the Board of Trustees that it approve entering into a ten year property lease for approximately nine acres with the Chippewa County Soil Conservation District, at an annual

cost of \$450 and upon such other terms and conditions as may be acceptable to the Vice President for Finance and Operations and Treasurer.

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

THE BOARD VOTED to approve the recommendation.

D. Long-Term Lease to Ferris State University

It was recommended to the Board of Trustees that it approve granting a lease of approximately 23,316 square feet of finished space (the seventh floor) at the Secchia Center in Grand Rapids to Ferris State University (FSU) for an initial term of ten years with an optional extension term of five years, with the build-out costs repaid to MSU by FSU over the initial five years of the lease, and upon such other terms and conditions as may be acceptable to the Vice President for Finance and Operations and Treasurer.

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

Provost Wilcox noted that FSU has a pharmacy program. As part of MSU's efforts to be part of a comprehensive medical presence in Grand Rapids, this would allow FSU to occupy a space adjacent to MSU's College of Human Medicine. This presents an opportunity to consider shared instruction, personnel, resources, and equipment and will foster an important collaboration with FSU.

THE BOARD VOTED to approve the recommendation.

E. Purchase of Ross Township Property

It was recommended to the Board of Trustees that it purchase real property located in Ross Township, Kalamazoo County, Michigan, for \$48,000 and upon such other terms and conditions as may be acceptable to the Vice President for Finance and Operations and Treasurer.

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

THE BOARD VOTED to approve the recommendation.

F. Greater Lansing Regional Committee Membership

It was recommended to the Board of Trustees that it become a full member of the Greater Lansing Regional Committee on Phase II Non-Point Source Pollution Prevention and agree to the terms of the related memorandum of agreement. (Appendix B)

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

Vice President Poston said that MSU has been very active with this group. The resolution allows MSU to gain formal membership.

THE BOARD VOTED to approve the recommendation.

G. Economic Stimulus Infrastructure Plan

It was recommended to the Board of Trustees that it authorize the administration to identify a set of capital infrastructure projects and to move forward on preliminary aspects of design for these projects to enhance Michigan State University's opportunity to receive federal dollars from the economic-stimulus infrastructure plan.

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

THE BOARD VOTED to approve the recommendation.

H. Project Approval—Authorization to Proceed—Parking Lot 89 East Expansion (NE corner of Farm Lane and Mount Hope Road)—Phase I

It was recommended to the Board of Trustees that it authorize the administration to proceed with the project entitled Parking Lot 89 East Expansion (NE corner of Farm Lane and Mount Hope Road)—Phase I and to approve a budget of \$5,200,000.

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

Vice President Poston noted that parking lot expansions are funded through the parking fund, which is a self-supported fund.

THE BOARD VOTED to approve the recommendation.

I. Project Approval—Authorization to Proceed—Owen Graduate Hall—Space Improvements

It was recommended to the Board of Trustees that it authorize the administration to proceed with the project entitled Owen Graduate Hall—Space Improvements and to approve a budget of \$10,000,000.

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

Vennie Gore, Assistant Vice President, Housing and Food Services, stated that Owen Hall was built in 1961 and that this would be the first major renovation to the facility. The project will include improvements to the front service areas, the dining area, and lounge areas, and upgrades to life safety and security systems. The space is being updated to better accommodate the needs of the residents as determined through extensive interviews with graduate students and members of the Council of Graduate Students (COGS).

THE BOARD VOTED to approve the recommendation.

J. Project Approval—Authorization to Proceed—Holmes Hall—Elevator Replacement

It was recommended to the Board of Trustees that it authorize the administration to proceed with the project entitled Holmes Hall—Elevator Replacement and to approve a budget of \$1,300,000.

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

THE BOARD VOTED to approve the recommendation.

K. Project Approval—Authorization to Proceed—Wilson Hall—Elevator Replacement

It was recommended to the Board of Trustees that it authorize the administration to proceed with the project entitled Wilson Hall—Elevator Replacement and to approve a budget of \$1,500,000.

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

THE BOARD VOTED to approve the recommendation.

L. Project Approval—Authorization to Proceed—Brody Complex—
Steam & Communications Master Plan—Phase I

It was recommended to the Board of Trustees that it authorize the administration to proceed with the project entitled Brody Complex—Steam & Communications Master Plan—Phase I and to approve a budget of \$2,400,000.

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

THE BOARD VOTED to approve the recommendation.

M. Project Approval—Authorization to Proceed—Cyclotron—Low Energy Experimental Research and Office Additions (budget and scope adjustment)

It was recommended to the Board of Trustees that the project budget be increased from \$16,000,000 to \$18,100,000, and it was recommended to the Board of Trustees that the project scope be amended to include finishing off the third and fourth floor office space and adding an equipment balcony for the project entitled Cyclotron—Low Energy Experimental Research and Office Additions.

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

THE BOARD VOTED to approve the recommendation.

N. Bid and Contract Award (budget reduction) Holden Hall—Life Safety System Upgrades

It was recommended to the Board of Trustees that a contract in the amount of \$2,244,300 be awarded to Nielsen Commercial Construction Company and the budget be reduced from \$4,200,000 to \$3,756,000, for the project entitled Holden Hall—Life Safety System Upgrades.

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

THE BOARD VOTED to approve the recommendation.

- O. Bid and Contract Award (budget reduction) Crescent Road/Middlevale Road Reconstruction—Phase V

It was recommended to the Board of Trustees that a contract in the amount of \$577,301 be awarded to Carol's Excavating, Inc. and the budget be reduced from \$1,400,000 to \$1,000,000 for the project entitled Crescent Road/Middlevale Road Reconstruction—Phase V.

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

THE BOARD VOTED to approve the recommendation.

10. Policy Committee

Trustee Woodard presented the Trustee Policy Committee Report and recommendations.

A. Law College Board Appointments

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

Mr. Charles A. Janssen, for a term commencing February 13, 2009, and ending December 31, 2011

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

THE BOARD VOTED to approve the recommendation.

B. Approval of Contract Terms

It was recommended to the Board of Trustees that it approve the execution of a contract with AFID Therapeutics, Inc., consistent with earlier public notice given at a Board meeting and with the "Contract Term Sheet" presented to the Board. (Appendix C)

It was recommended to the Board of Trustees that it approve the execution of an extension to a research subcontract with Names for Life, LLC, consistent with earlier public notice given at a Board meeting and with the "Research Subcontract Extension Term Sheet" presented to the Board. (Appendix D)

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

THE BOARD VOTED to approve the recommendations.

11. Audit Committee

Trustee Perles presented the Trustee Audit Committee Report and recommendation.

A. Reappointment of External Auditors

It was recommended to the Board of Trustees that Plante & Moran, PLLC be reappointed as the University's external auditors for the 2008-09 fiscal year at a fee of \$300,350, a three percent increase (\$8,800) over the prior year's fee.

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

Trustee Perles stated that Plante & Moran is completing its third year as MSU's external auditors. Under the Board's "Rotation of Auditor Policy", Plante & Moran is eligible to complete six audit cycles before a request for proposals process must again be implemented. The planning, coordination and execution of the audit work has gone very smoothly the past two years.

THE BOARD VOTED to approve the recommendation.

12. Facilities and Infrastructure Report Presentation

Kathy Lindahl, Assistant Vice President for Finance and Operations and Treasurer, presented the facilities and infrastructure report.

13. Trustees Comments

Trustee Ferguson welcomed Trustee Woodard to the Board. He noted that one of the highlights of the Board meeting is the research presentation. The presentations illustrate the quality of faculty and research taking place at MSU.

Trustee Nugent welcomed Trustee Woodard to the Board. He congratulated the men's and women's basketball teams on their successful seasons. Trustee Nugent stated that MSU's health care costs, \$300,000 per day, were discussed in the faculty liaison breakfast meeting.

Trustee Owen welcomed Trustee Woodard to the Board. She complimented the student liaisons to the Board on the work they do for MSU.

Trustee Perles welcomed Trustee Woodard to the Board.

Trustee Woodard thanked everyone for their gracious welcome to the Board. She hopes to be an asset to Team MSU.

Trustee Foster welcomed Trustee Woodard to the Board. She thanked Vice President Gray for arranging the presentation on the MATRIX. It is a great example of collaboration among so many diverse departments on campus.

14. Public Participation on Issues Not Germane to the Agenda

A. Last Lecture Series

Mr. Christopher Kulesza, Student Liaison to the Board, announced that the second installment of the Last Lecture series would be held on March 4, 2009, at the Fairchild Theater. Dr. Charles Ballard, Professor of Economics at MSU, is the featured speaker.

B. Graduate Academic Conference

Mr. Manish Madan, Student Liaison to the Board, stated that the Council of Graduate Students (COGS) would be presenting the Graduate Academic Conference on March 20, 2009. The conference provides an opportunity for graduate and professional students to present their work to the larger MSU community.

15. On a motion by Trustee Ferguson, supported by Trustee Owen, **THE BOARD VOTED to adjourn at 11:20 a.m.**

Respectfully submitted,



William R. Beekman
Secretary of the Board of Trustees

RESEARCH
PRESENTATION
TO THE MSU BOARD OF TRUSTEES

FEBRUARY 13, 2009

MARK KORNBLUH
MATRIX

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

MATRIX: The Center for Humane Arts, Letters, and Social Sciences Online

Presentation to the Board of Trustees

Mark Lawrence Kornbluh
Wayne Dyksen
Dean Rehberger







February 13, 2008

MATRIX: A Research Center Devoted to Humanities and Social Science Technology

- MATRIX is a research center in the College of Social Science
- Faculty from five colleges
- Fundamentally interdisciplinary
- Focused on the transformation of the humanities and social sciences in the age of the Internet
- Transformation resulting from integration with computing and information technologies
- Integrative across MSU's mission: research, teaching, and engagement
- World-grant for the digital age

Wide Range of External Funding

• U.S. Department of Education	\$3.21M
• Institute of Library & Museum Services	1.71M
• National Science Foundation	5.65M
• National Endowment for the Humanities	1.94M
• U.S. State Department	.55M
• Mellon Foundation	.60M
• Other	<u>.78M</u>
• Total	\$14.80M

MATRIX
 The Center for Humane Arts,
 Letters & Social Sciences Online

Detroit Public Television's American Black Journal - Windows Internet Explorer

http://www.matrix.msu.edu/~abj/

Detroit Public Television's American Black Journal

American Black Journal

Documenting Detroit from African American Perspectives

American History from African American Perspectives

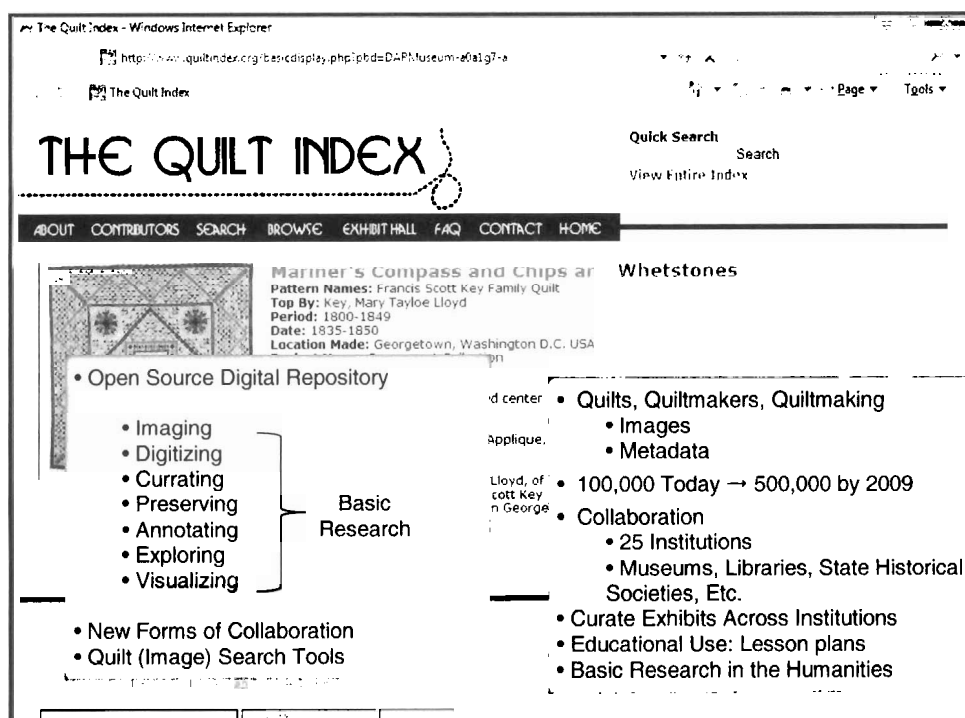
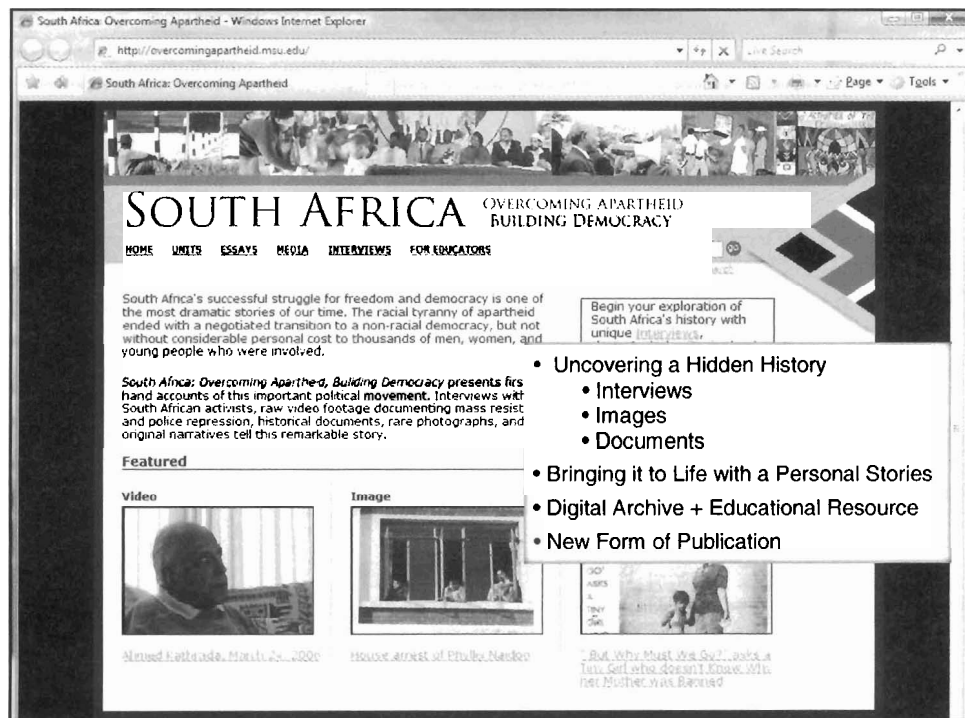
[About](#)
[Browse](#)
[Themes](#)
[Shows](#)
[For Educators](#)
[ABJ Story](#)
[Credits](#)

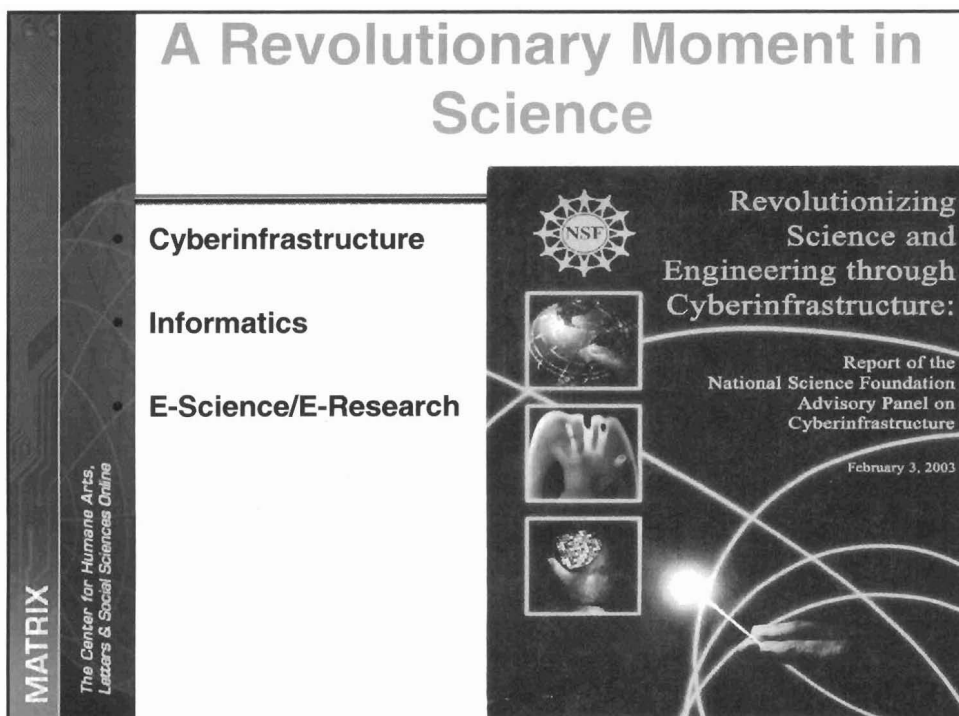
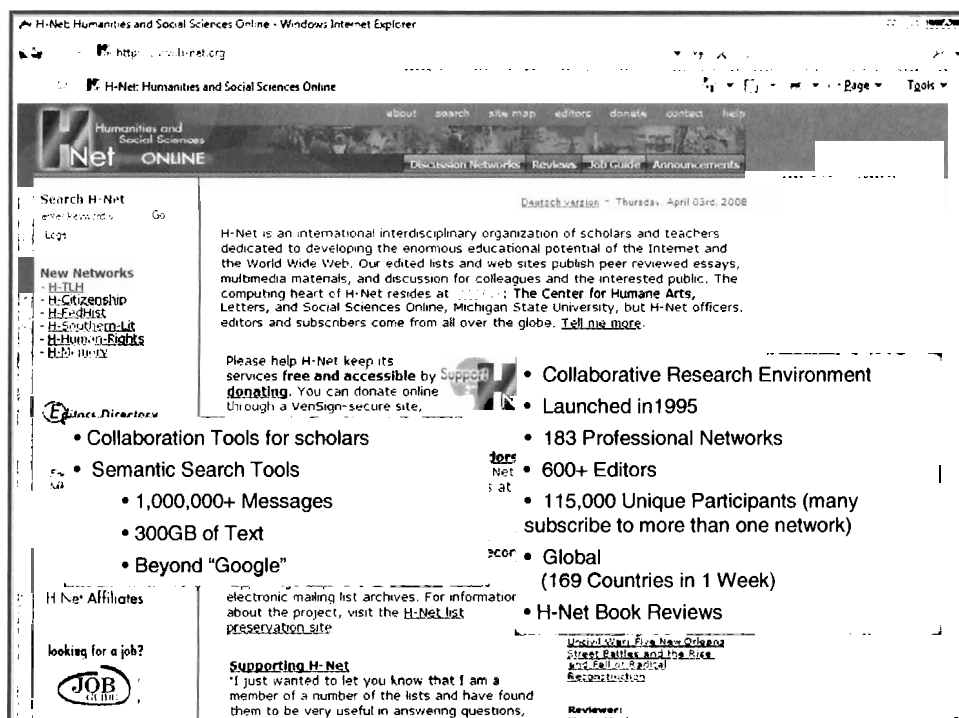
- Detroit Public Television Show
 - African-American Perspectives
 - Since 1969
- Unique Primary Source
- Building Digital Archive
 - Access to Every Show
 - Streamed On the Web
- Tremendous Educational Potential
- Collaboration with MSU Library and History Department

- Digitizing Laboratory
 - 6 Video Tape Formats Over 40 Years
 - ~500 Tapes
 - 3.25 Terabytes of Data
- Digital Preservation
- Multimedia Tools for Meaningful Access

t of the Humanities,
 sity have collaborated
 g them online here as

an-American
 it, the state of





ACLS 2006 Report: “Our Cultural Commonwealth”

- MATRIX Cited
 - “Exemplary Model”
 - One of Four National Centers
- American Council on Learned Societies
Commission on Cyberinfrastructure for
the Humanities and Social Sciences



Final Thoughts: Opportunities and Challenges

- Change is being pushed by new datasets, environments, tools, possibilities
- Change is pulled by knowledge communities seeking to address complex research challenges
- Resources are important, but so is creativity
- We are at the very beginnings of a fundamental transformation across the academy
- Moment of real opportunity and MSU is poised to take advantage of it

A RESOLUTION TO BECOME A FULL MEMBER OF THE GREATER
LANSING REGIONAL COMMITTEE ON PHASE II NON-POINT SOURCE
POLLUTION PREVENTION AND TO AGREE TO THE TERMS OF THE
MEMORANDUM OF AGREEMENT

WHEREAS, the United States Environmental Protection Agency (EPA) has required communities in the greater Lansing area to apply for a National Pollutant Discharge Elimination System (NPDES) Phase II Permit to manage storm water; and

WHEREAS, the Michigan Department of Environmental Quality, charged with implementing the federal NPDES requirements, recognizes the benefits of managing storm water on a watershed basis; and

WHEREAS, Michigan State University is working with communities located within the the Lower Upper Grand River, the Middle Looking Glass River, and the Lower Red Cedar River watersheds to implement watershed management plans to meet the Phase II requirements; and

WHEREAS, these communities have previously entered into an agreement to create the Greater Lansing Regional Committee (GLRC) on Phase II Nonpoint Source Pollution Prevention to protect the waters of the State and to meet the requirements of the Michigan Department of Environmental Quality; and

WHEREAS, participation in the GLRC advances local efforts to improve responsible stewardship of natural resources; and

WHEREAS, participation in the GLRC allows for the cooperative management of the water resources surrounding and flowing through the Michigan State University campus; and

WHEREAS, the Memorandum of Agreement establishing the GLRC requires that each community's governing body approve the agreement; and name a person to represent the community on the committee, and

NOW THEREFORE BE IT RESOLVED that the Michigan State University Board of Trustees approves the GLRC Memorandum of Agreement and the University's participation in the GLRC as a full member.

BE IT FURTHER RESOLVED, that MSU's representative to the GLRC is the Phase II Coordinator Ruth Kline-Robach and its alternate is Environmental Compliance Officer Thomas Grover.

CONTRACT TERM SHEET

Party: AFID Therapeutics, Inc.

Project Description: Use of pilot plant infrastructure and operational staff at the MSU facility in Holland, MI for production of chemical intermediates from biomass-derived reagents, plus ancillary use of laboratory space at the facility for quality assurance, process optimization, and related research.

Term: Two years, unless terminated at an earlier date at the discretion of either party.

Contractual Terms: AFID Therapeutics, Inc. is responsible for providing all raw materials, for the shipping of all products, and for disposal of all wastes generated. The company is responsible for complying with all applicable laws and regulations, as well as all MSU policies, and for cooperating fully with the MSU Office of Radiation, Chemical, and Biological Safety. The company assumes all risks of failed production runs not resulting from demonstrable MSU error or negligence. No intellectual property rights of either party are modified under this agreement.

All payments specified below are by AFID Therapeutics to MSU.

Part A – Pilot Plant Production of Pre-specified Compounds via Pre-specified Synthetic Pathways

- Payment of \$30.00 per pound for production of $\text{CH}_2\text{OH-CHOH-CH}_2\text{-CH}_2\text{OH}$ (hereinafter “A”).
- Payment of \$15.00 per pound for production of lactone (hereinafter “B”) not used at the site for production of A.
- Payment of \$5.00 per pound for production of a monosaccharide sugar acetal not used at the site for production of either A or B.

Part B – Other Mutually Agreed Uses of the Pilot Plant

- Payment of 152% of consulting engineer charges incurred by MSU in environmental permit analyses and/or applications.
- Payment of \$3,681 for the first day in any continuous period that one reactor in the pilot plant is actually used, plus \$1,227 for each additional day in the same continuous period.
- Payment of \$67 per person hour for pilot plant staffing during prime shift (8-5 on Monday to Friday) and \$100 per person hour for other shifts.
- For necessary process planning, infrastructure preparation, infrastructure clean-up, and post-run outcome analysis, payment of \$67 per skilled tradesperson hour, \$98 per hour for an M.S. chemical engineer, \$118 per hour for an environmental health & safety officer, and \$154 per hour for the facility Director of Operations.

Part C – Lease of Research Laboratory Space in Conjunction with the Foregoing Pilot Plant Usage

- Laboratory space at \$30 per NASF per year. Initially, 441 square feet for \$13,230 per year.
- Office space at \$22 per NASF. Initially, 135 square feet for \$2,970 per year.
- Expansion of space occupancy at the foregoing rates to a total of 5,000 square feet by mutual consent of the parties.

Services Provided: By MSU to AFID Therapeutics, Inc.:
Pilot plant scale-up of chemical syntheses.
By AFID Therapeutics, Inc., to MSU:
None under contemplated agreement.

Use of University Facilities/Personnel:

MSU personnel will execute the pilot plant synthesis runs in the MSU facility in Holland, MI. AFID Therapeutics will lease laboratory space in the same facility.

Organization Type: AFID Therapeutics, Inc. is an incorporated Lansing, Michigan-based small business.

Personnel Interest: Dr. Rawle Hollingsworth, a Professor in the Department of Biochemistry and Molecular Biology and the Department of Chemistry, and his immediate family own or have an option to buy an equity interest of more than 1% of the company. Dr. Hollingsworth is also an officer of AFID Therapeutics, Inc.

RESEARCH SUBCONTRACT EXTENSION TERM SHEET

Party: NamesforLife, LLC

Option: Extension of a subcontract from NamesforLife, LLC to MSU under STTR award received by NamesforLife, LLC from the U.S. Department of Energy. (See attached Research Subcontract Term Sheet; approved June 15, 2007.)

Term: Extension of subcontract through August 31, 2009

Payment: \$126,648

Use of University Facilities/Services/Personnel:

Use of MSU facilities/personnel by NamesforLife, LLC, provided at prevailing rates for industrial research.

Organization Type:

Okemos, Michigan-based limited liability company

Personnel Interest:

Dr. George Garrity, a Professor in the Department of Microbiology and Molecular Genetics, and Dr. James Cole, a Professor in the Microbial Ecology Center, and their immediate families own or have an option to buy an equity interest of more than 1% of the company. Dr. Garrity is also a manager of NamesforLife, LLC.