

MICHIGAN STATE
UNIVERSITY

June 21, 2019



MEMORANDUM

To: Committee on Budget and Finance

From: Satish Udpa,
Executive Vice President for Administration and Interim President

June Pierce Youatt,
Executive Vice President for Academic Affairs and Provost

Subject: 2019-20 Budgets for MSU AgBioResearch, MSU Extension, and Intercollegiate Athletics

RECOMMENDATION:

The Trustee Committee on Budget and Finance recommends that the Board of Trustees approve 2019-20 budget totals for MSU AgBioResearch, Michigan State University Extension, and Intercollegiate Athletics.

RESOLUTION:

BE IT RESOLVED, that the Administration is directed to implement the 2019-20 MSU AgBioResearch, Michigan State University Extension, and Intercollegiate Athletics budgets in accordance with the totals established in Attachment A and the overall 2019-20 Budget Development Guidelines approved by the Board of Trustees in June 2018.

BACKGROUND:

Attachment A summarizes 2019-20 revenues and expenditures budgets. University budgets will be monitored over the course of the year with notable changes reported quarterly to the Board of Trustees. Completed fiscal year figures will be included in the year-end financial statements. Attachment B reflects an initial view of FY20 general fund budget monitoring noting current issues relative to approved budget parameters.

FY20 operating budgets provide the ongoing resources necessary to sustain critical university operations for AgBioReserach, MSU Extension, and MSU Athletics.



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MSU AgBioResearch and MSU Extension are committed to working with Michigan residents to meet the needs of agriculture and natural resources stakeholders through a variety of means, including a programmatic presence in communities across the state. MSU AgBioResearch and MSU Extension contribute to Michigan's economy with significant research, educational programs and outreach aimed to boost economic development, community vitality, entrepreneurship, and career preparation.

The MSU Department of Athletics supports approximately eight hundred student-athletes across twenty-five sports. Student athletes make a significant contribution to the campus community through their athletic participation and with a ninety-one percent Graduation Success Rate.

The 2019-20 budgets for MSU AgBioResearch, MSU Extension, and Intercollegiate Athletics will be developed and implemented, in accordance with the FY20 Budget Guidelines.

Attachments

cc: Board of Trustees, N. Barr, M. Zeig, K. Wilbur, B. Quinn, M. Haas,
D. Byelich, B. Johnston

MICHIGAN STATE UNIVERSITY
2019-20 BUDGETS
Overview

ESTIMATED REVENUES	State Appropriation	Federal Funds	Tuition & Fee Funds*	Other	Restricted	2019-20 Total
MSU AgBioResearch	35,283,189	6,906,564			2,961,571	\$45,151,324
MSU Extension	30,434,405	11,190,427		8,700,000	2,999,934	\$53,324,766
Intercollegiate Athletics				139,780,662		\$139,780,662
Total Estimated Revenues	\$65,717,594	\$18,096,991	\$0	\$148,480,662	\$5,961,505	\$238,256,752

*Includes new revenue-based initiatives increment of \$1.1 million

ESTIMATED EXPENDITURES	State Appropriation	Federal Funds	University Funds	Other	Restricted	2019-20 Total
Michigan Agricultural Experiment Station						\$45,151,324
MSU Extension						\$53,324,766
Intercollegiate Athletics						\$139,780,662
Total Estimated Expenditures						\$238,256,752

FY19 budget totals: MSU AgBioResearch - \$46,239,945, MSU Extension - \$52,909,776, and Intercollegiate Athletics - \$133,062,770

FY20 General Fund Budget Overview

Budget Item	2019-20 BOT APPROVED	NOTES AND UPDATE
State Appropriations	2.0%	2% Monitoring – range 0.7%-3%
Tuition and Fees	<p style="text-align: center;">No tuition rate increase for all undergraduate students</p> <p style="text-align: center;">A new undergraduate rate structure that includes per- credit rates for students taking 11 credits or less, block rates for students taking 12-18 credits, and a hybrid block/per-credit structure for students taking 19+ credits</p> <p style="text-align: center;">4.0% for most graduate students</p> <p style="text-align: center;">2.0% for resident medical students, 0.0% for non-resident medical students</p>	No Change
Total Tuition & Fee Revenue	\$1,051.5	No Change
Total Revenue Budget	\$1,449.2	No Change
Financial Aid	7.1%	No Change
Graduate Assistants	2.0%	No Change
Faculty Salaries	2.5%+0.5%*	No Change
Utilities	0.0%	No Change
Health Care	5.0%**	No Change
Financial Framework		
Competitiveness (course demand)	\$3.2	No Change
Technology	\$6.5	No Change
Performance Efficiency Reallocation	-1.0%	No Change
Base Budget Reduction	<u>0.0%</u>	No Change
Total Expenditure Budget	\$1,449.2	No Change

2019-20 budget approved by the BOT in June 2018

*For 2019-20, includes 2.50% general merit, 0.5% provost market pool

**Health care budget augmented by amounts previously committed to collective bargaining groups due to claims experience
University risk and insurance estimates exceed budgeted values by approximately \$1.5M
FY20 budget total of \$1,449.2M represents a 4.1% rate of change over FY19

**MICHIGAN STATE
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June 21, 2019



MEMORANDUM

To: Committee on Budget and Finance
From: Mark P. Haas *Mark P. Haas*
Vice President for Finance and Treasurer
Subject: Fund Functioning as an Endowment
Michelle LeBlanc Endowed Theriogenology Fund

RECOMMENDATION

The Trustee Committee on Budget and Finance recommends that the Board of Trustees establish a fund functioning as an endowment to provide support for theriogenology residents in the College of Veterinary Medicine.

RESOLUTION

BE IT RESOLVED, that the Board of Trustees of Michigan State University hereby establishes a fund functioning as an endowment entitled "Michelle LeBlanc Endowed Theriogenology Fund."

BACKGROUND

The initial \$86,481 to establish the "Michelle LeBlanc Endowed Theriogenology Fund" (the "Fund") will be transferred from the University's restricted gift account. Additional restricted gifts can be added to the Fund.

The spending policy distributions will be used, at the discretion of the College of Veterinary Medicine ("College"), to provide support for College theriogenology residents including travel and expenses to attend national theriogenology conferences, and/or to support publication of research findings. Residents shall be veterinary students with demonstrated clinical excellence in theriogenology.

Provost June Youatt has approved this recommendation from Dr. Birgit Puschner, Dean of the College.

cc: Board of Trustees, S. Udpa, J. Youatt, B. Quinn, N. Barr, K. Wilbur, M. Zeig, J. Rayis, L. Adams, M. Heil, S. Harwood, B. Puschner



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**MICHIGAN STATE
UNIVERSITY**

June 21, 2019



MEMORANDUM

To: Committee on Budget and Finance

From: Daniel J. Bollman *Daniel J. Bollman*
Vice President for Strategic Infrastructure Planning and Facilities

Subject: **Project Approval - Authorization to Proceed**
Munn Ice Arena - Expansion

RECOMMENDATION

The Trustee Committee on Budget and Finance recommends that the Board of Trustees authorize the Administration to proceed with an addition to Munn Ice Arena.

RESOLUTION

BE IT RESOLVED, that the Board of Trustees of Michigan State University hereby authorizes the Administration to proceed with the project entitled "Munn Ice Arena - Expansion," with a project budget of \$18,800,000.

BACKGROUND

Program Need:

Munn Ice Arena opened in 1974. In addition to being the home of MSU Hockey, it also hosts classes, club sports, sports camps, and public skating opportunities. The building has fallen behind its peers, particularly for team operations. It is lacking in team meeting space, operational areas, and energy efficiency. Further, the building does not have an appropriate presence for a facility that hosts 6,800 guests.

Description of Project:

Munn Ice Arena is between Birch Road and Chestnut Road in the athletic and recreation district. This project, which includes a 35,000 square foot addition, will create a new public "front door" to Munn Ice Arena. The project provides gathering spaces outside and around the building, team meeting spaces, new training facilities, and improvements to community skate operations. The project will feature memorabilia displays to embrace and celebrate MSU Hockey history and success, expand and relocate hockey operations and coaching offices from the basement to the renovated first



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floor, and improve the quality of the varsity lockers, fitness and weight facilities in alignment with other recently completed collegiate hockey venues. The project will also address needed infrastructure and energy improvements.

The Architect is Rossetti Associates, Inc. The Construction Manager is Barton Malow Company.

Communication Feedback:

Members of the campus community had opportunities to provide feedback during the planning phase. Any concerns they expressed have been addressed in the project design.

The Campus Infrastructure Planning Work Group supports the recommendation to proceed with the project.

As construction proceeds, the schedule will be shared with the campus community.

Project Cost and Timetable:

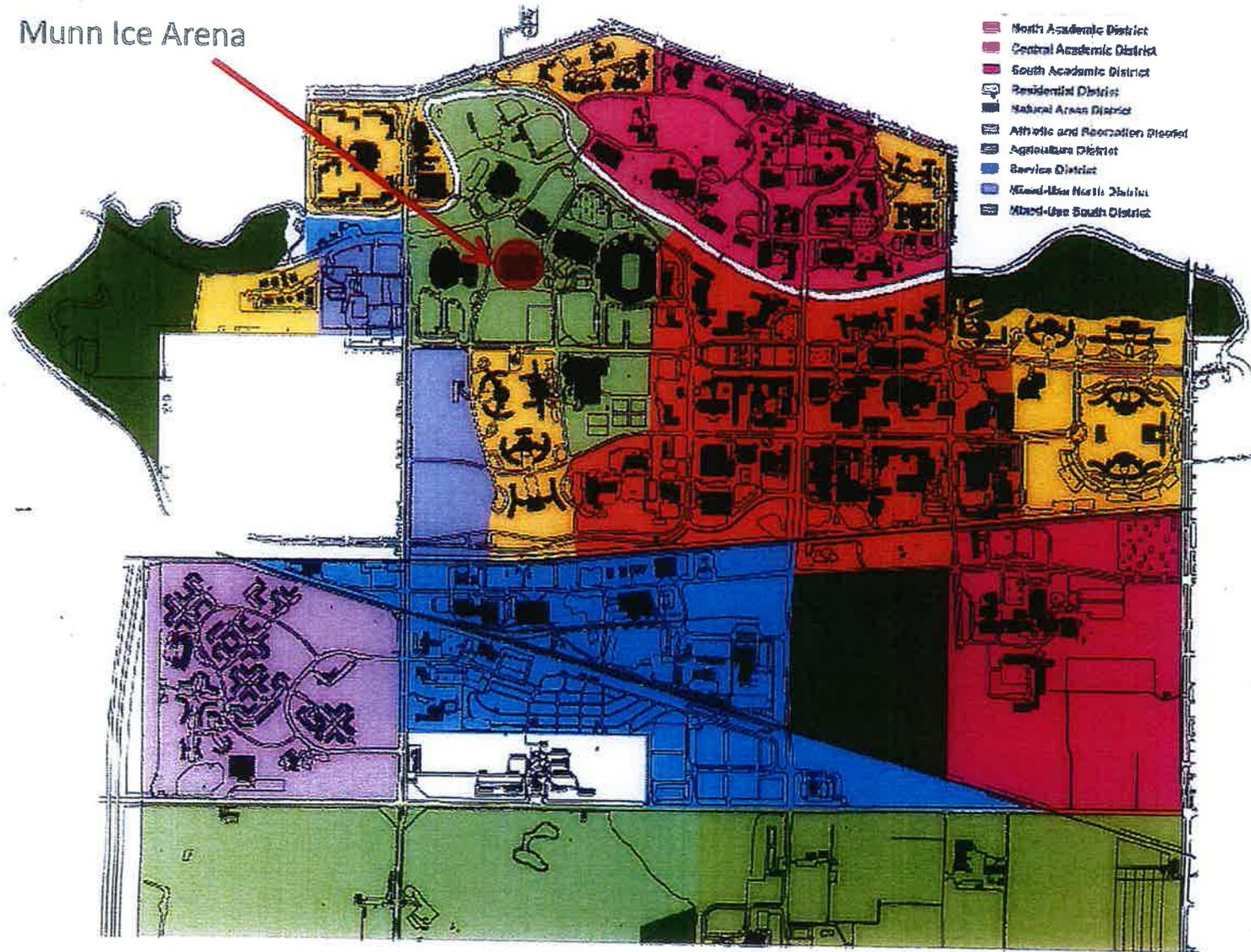
The budget for this Construction Manager project is \$18,800,000 including a \$1,000,000 contingency. The project will be funded by non-general funds and gifts to Intercollegiate Athletics and/or debt financing with debt repayment from the above sources.

Construction is expected to begin in June 2019, with substantial completion in December 2020.

cc: Board of Trustees, S. Udpa, J. Youatt, N. Barr, K. Wilbur, M. Zeig, B. Quinn, V. Gore, M. Haas, J. Gaboury, B. Kranz, M. McCabe, J. Mumma, J. Rayis, L. Adams, K. Oosterhoff, B. Beekman, A. Haller, M. Heil, C. Carter, L. Senecal

Project Approval – Authorization to Proceed
Munn Ice Arena – Expansion

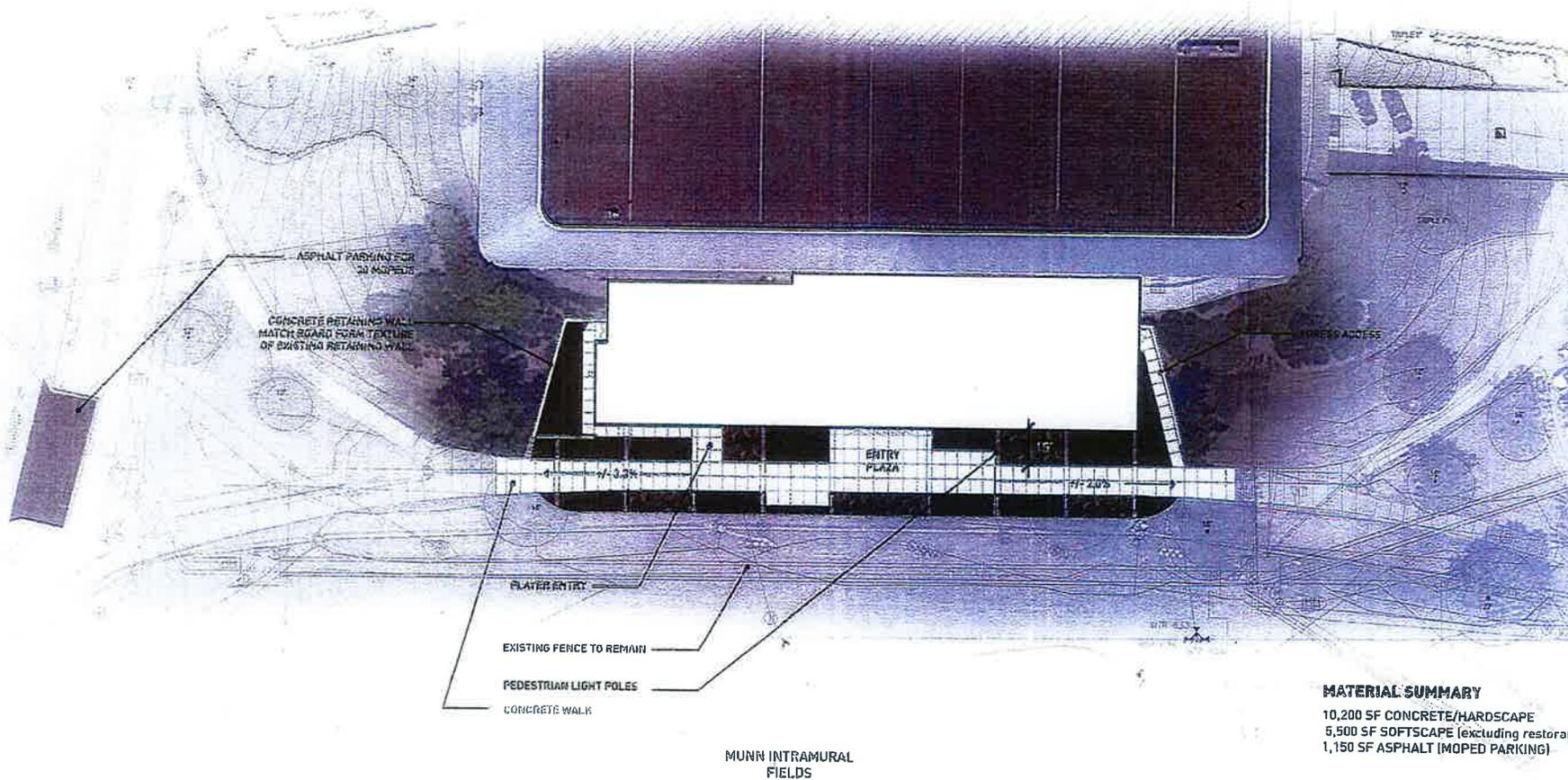
Munn Ice Arena



Project Approval – Authorization to Proceed Munn Ice Arena – Expansion

MICHIGAN STATE
UNIVERSITY

Proposed Site Plan



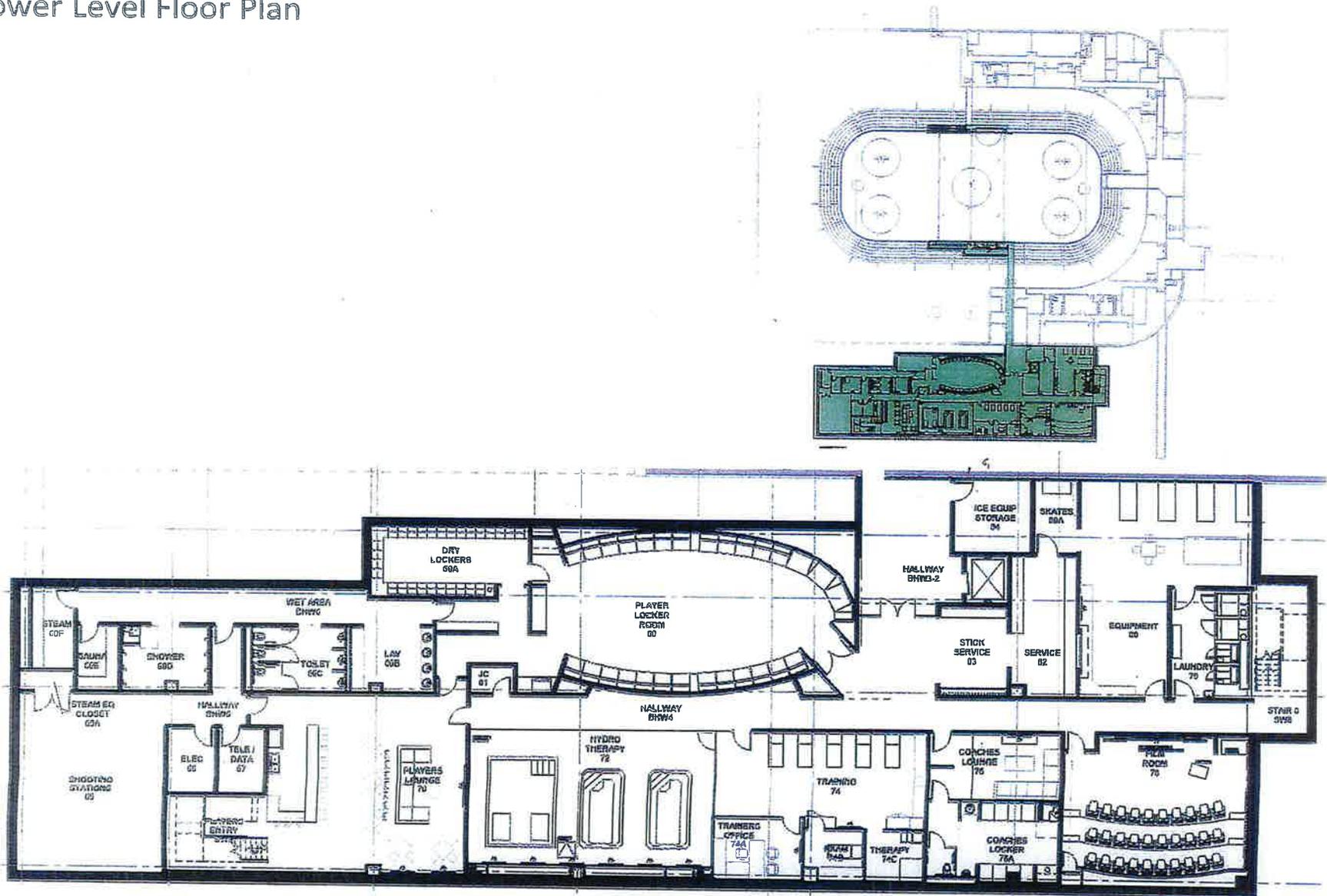
MATERIAL SUMMARY

10,200 SF CONCRETE/HARDCAPE
5,500 SF SOFTSCAPE (excluding restoration)
1,150 SF ASPHALT (MOPED PARKING)

Project Approval – Authorization to Proceed Munn Ice Arena – Expansion

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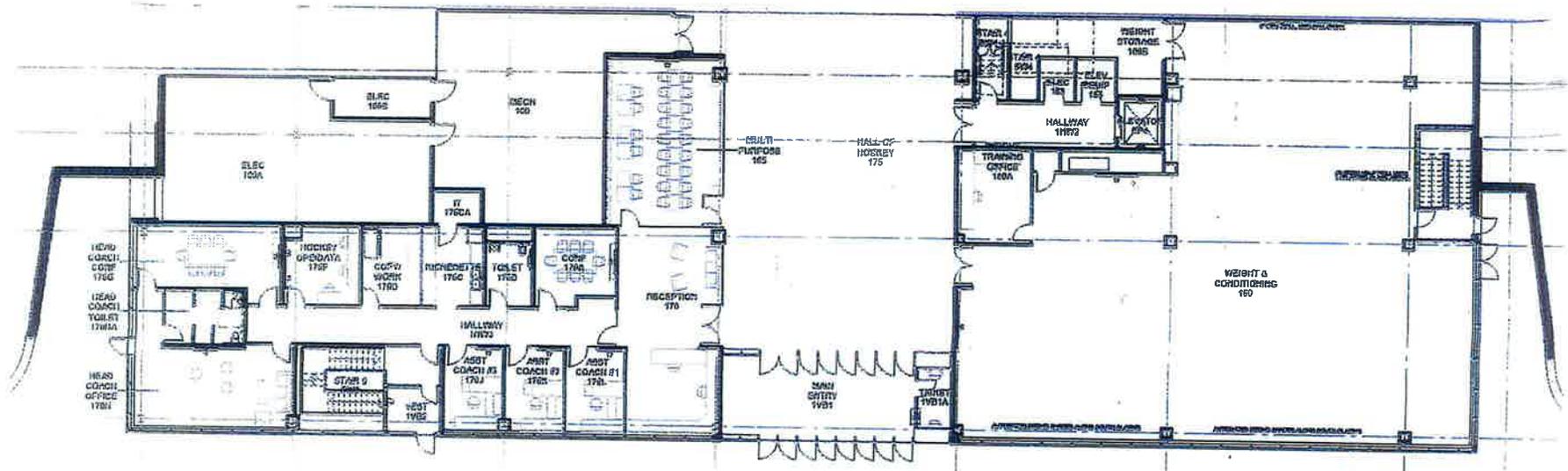
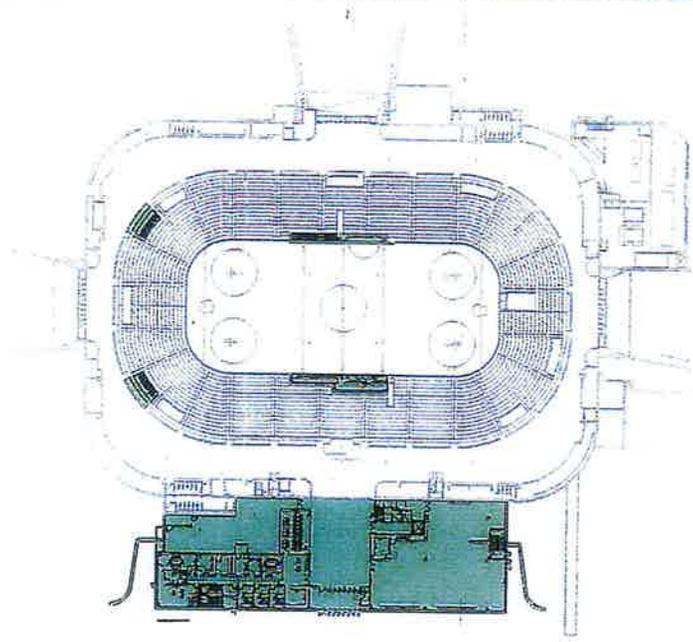
Lower Level Floor Plan



Project Approval – Authorization to Proceed Munn Ice Arena – Expansion

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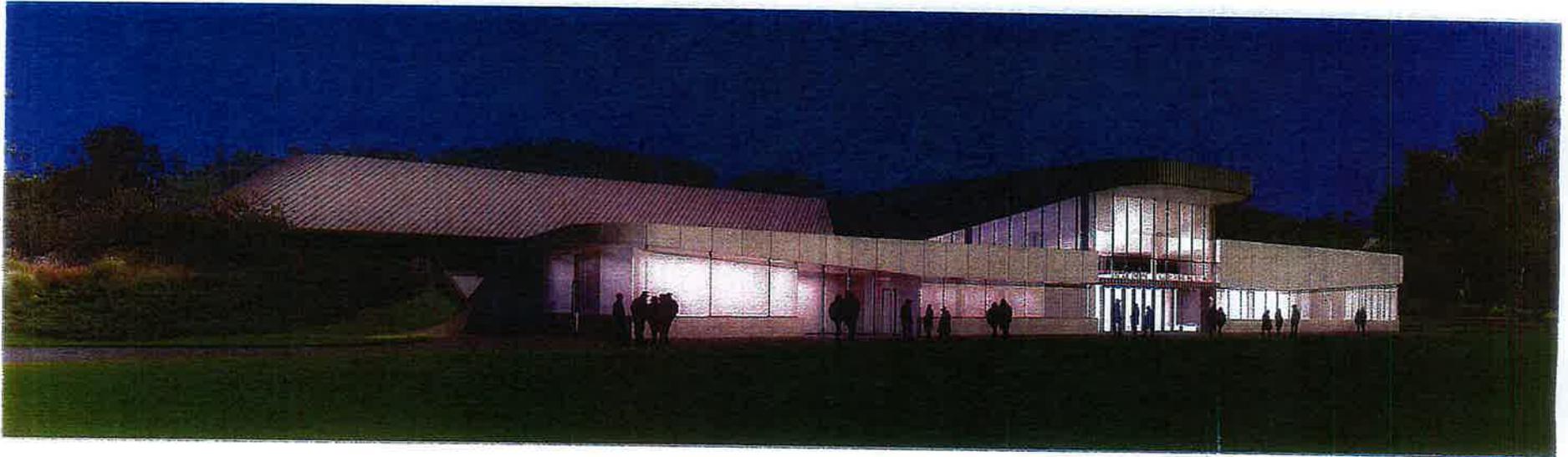
Ground Level Floor Plan



Project Approval – Authorization to Proceed
Munn Ice Arena – Expansion

MICHIGAN STATE
UNIVERSITY

Proposed Southwest Building Elevation



Proposed Southeast Building Elevation



**MICHIGAN STATE
UNIVERSITY**

August 20, 2018

MEMORANDUM



To: Committee on Budget and Finance

From: Daniel J. Bollman *Daniel J. Bollman*
Associate Vice President for Strategic Infrastructure Planning
and Facilities

Subject: Authorization to Plan
Munn Ice Arena - Expansion

RECOMMENDATION

The Trustee Committee on Budget and Finance recommends that the Board of Trustees authorize the Administration to plan for an addition to Munn Ice Arena.

RESOLUTION

BE IT RESOLVED, that the Board of Trustees of Michigan State University hereby authorizes the Administration to plan for the project entitled "Munn Ice Arena - Expansion."

BACKGROUND

Program Need:

Munn Ice Arena opened in 1974. In addition to being the home of MSU Hockey, it also hosts classes, club sports, sports camps, and public skating opportunities. The building has fallen behind its peers, particularly for team operations. It is lacking in team meeting space, operational areas, and energy efficiency. Further, the building does not have an appropriate presence for a facility that hosts 6,800 guests.

General Description of the Project:

As planning begins, the project is anticipated to include a new public front door to Munn Ice Arena to include memorabilia; expanding and relocating the hockey operations offices and coaching offices from the basement to the renovated first floor; improving the quality of the varsity lockers, fitness, weight and other varsity facilities in alignment with other recently completed collegiate hockey facilities; add concessions and improve the public skating



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experience by providing an appropriate lobby, skate changing, skate rental, and pro shop; and redesign all entries to incorporate vestibules, providing airlocks and the ability to keep the conditioned air inside at peak periods.

Munn Ice Arena is between Birch Road and Chestnut Road in the athletic and recreation district. The project will be consistent with the Campus Land Use Master Plan.

Communication Plan:

Input will be solicited from the campus community during the planning phase.

Preliminary Project Cost Information:

Based on cost experience for similar projects and current pricing information, the preliminary project cost estimate is \$14,000,000 - \$16,000,000. This estimate may change as the project and its scope are refined during the planning process.

The source of funds for the project is expected to be gifts to intercollegiate Athletics or debt financing with debt repayment from gifts to intercollegiate Athletics.

cc: Board of Trustees, J. Engler, J. Youatt, S. Udpa, R. Young, N. Barr,
V. Gore, M. Haas, J. Gaboury, B. Kranz, M. McCabe, J. Mumma,
J. Rayis, L. Adams, K. Watson, B. Beekman

**MICHIGAN STATE
UNIVERSITY**

June 21, 2019



MEMORANDUM

To: Committee on Budget and Finance
From: Daniel J. Bollman *Daniel J. Bollman*
Vice President for Strategic Infrastructure Planning and Facilities
Subject: **Project Approval - Authorization to Proceed**
T.B. Simon Power Plant - Plant Modernization - RICE

RECOMMENDATION

The Trustee Committee on Budget and Finance recommends that the Board of Trustees authorize the Administration to proceed with the next phase of power generation for campus, including the installation of new reciprocating internal combustion engines ("RICE").

RESOLUTION

BE IT RESOLVED, that the Board of Trustees of Michigan State University hereby authorizes the Administration to proceed with the project entitled "T.B. Simon Power Plant - Plant Modernization - RICE," with a project budget of \$47,000,000.

BACKGROUND

Program Need:

MSU's T.B. Simon Power Plant has provided cogenerated steam and electricity to the East Lansing campus for more than five decades. This cogeneration facility continues to provide competitive financial advantages to MSU relative to Big Ten peers and other Michigan universities, and has a proven record of unsurpassed reliability for providing electrical power and steam to campus.

The original generation equipment is almost 60 years old, conventionally considered the end of its useful life. Maintenance costs for outdated boilers and turbines are on the rise.

Changing technology allows MSU to consider a different approach for the next generation of power production. There are technical advances in electrical and steam generation equipment, improvements in the nation's natural gas infrastructure, and lower prices for energy storage solutions. A carefully



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balanced set of strategic investments will enable MSU to modernize its central power plant, save energy and significantly lower costs.

Changes in campus demand for electricity and steam have resulted in sub-optimal operation of our existing cogeneration plant. The demand for electricity will continue to rise much faster than for steam, thus moving the Power Plant's generation equipment further and further away from the balance that is optimal for efficiency. This project addresses the electric generation side of the equation with the installation of Reciprocating internal combustion engines (RICE). Installing separate electric and steam production equipment will result in higher overall plant efficiencies by reducing excess steam production in the existing plant to generate electricity. This will reduce fuel expense and will further reduce emissions of CO₂ (carbon dioxide).

RICE represents the best balance of cost efficiency, reliability, and sustainable electrical generation among currently available solutions. RICE is more responsive than the existing cogeneration equipment and will help firm solar array production during rapidly changing cloud cover. A balanced set of strategic investments, including RICE, will enable MSU to modernize, meet changing needs, and lower costs.

Description of Project:

The Power Plant is located on Service Road in the service district. The project will add natural gas-fired simple cycle RICE and associated balance-of-plant equipment at the existing T.B. Simon Power Plant. The full load electrical output capability of the facility shall be a nominal 27 megawatts, accomplished through the use of three RICE units with "white space" for a future fourth engine. These units will be in an unmanned facility controlled remotely from the main plant with the exception of inspection and maintenance.

The Design Builder is The Christman Company.

Communication Feedback:

Members of the campus community had opportunities to provide feedback during the planning phase. Any concerns they expressed have been addressed in the project design.

The Campus Infrastructure Planning Work Group supports the recommendation to proceed with the project.

As construction proceeds, the schedule will be shared with the campus community.

Project Cost and Timetable:

The budget for this Design Build project is \$47,000,000 including a \$817,000 contingency. The project will be debt financed with debt repayment from the general fund – utilities.

Construction is expected to begin in June 2019, with substantial completion in December 2020.

cc: Board of Trustees, S. Udpa, J. Youatt, N. Barr, K. Wilbur, M. Zeig,
B. Quinn, V. Gore, M. Haas, J. Gaboury, B. Kranz, M. McCabe,
J. Mumma, J. Rayis, L. Adams, K. Oosterhoff, W. Bauer, S. Jett,
C. Carter, L. Senecal

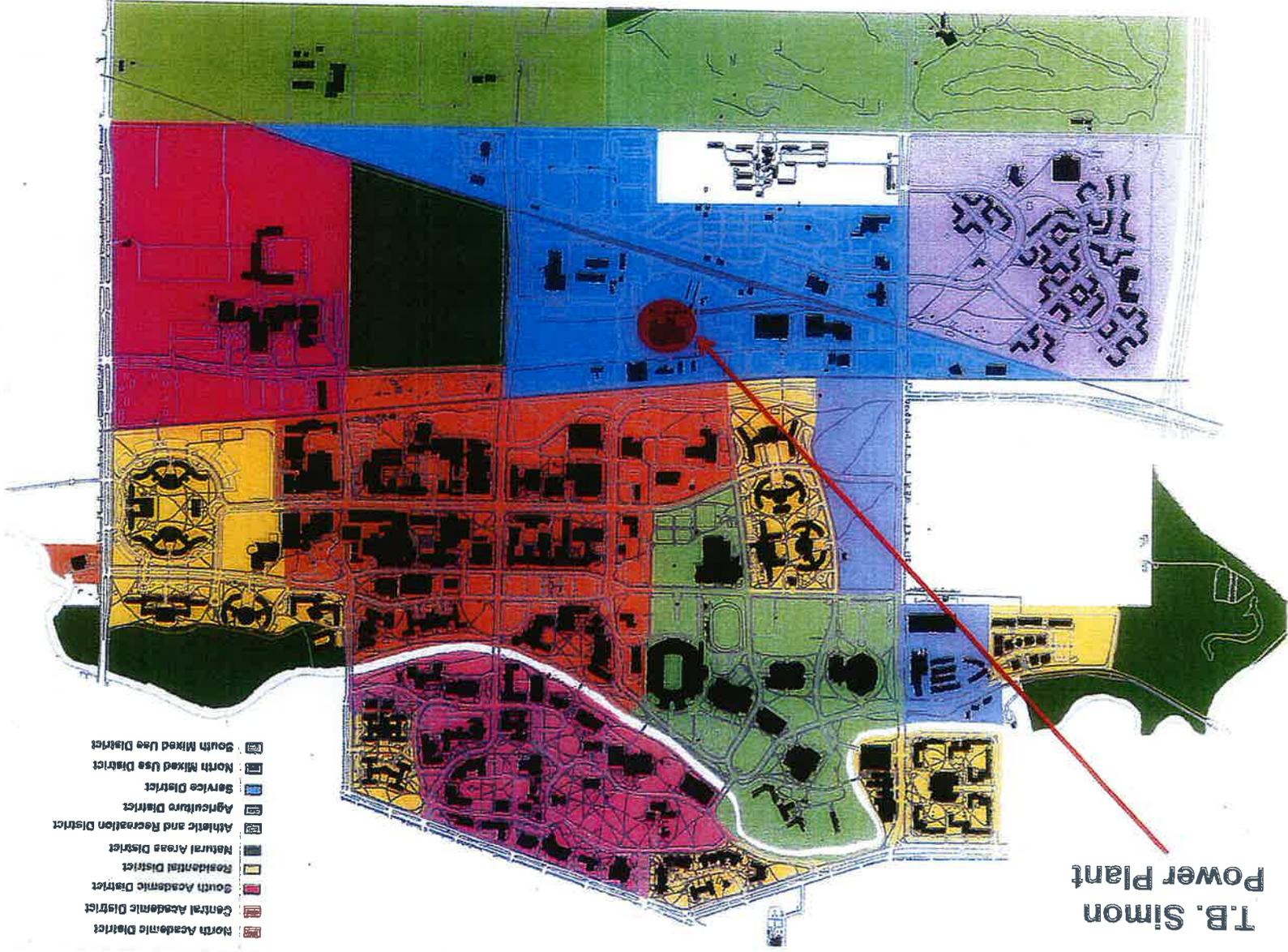
CP16124/CP17197

Project Approval – Authorization to Proceed

T.B. Simon Power Plant – Plant Modernization - RICE

MICHIGAN STATE UNIVERSITY

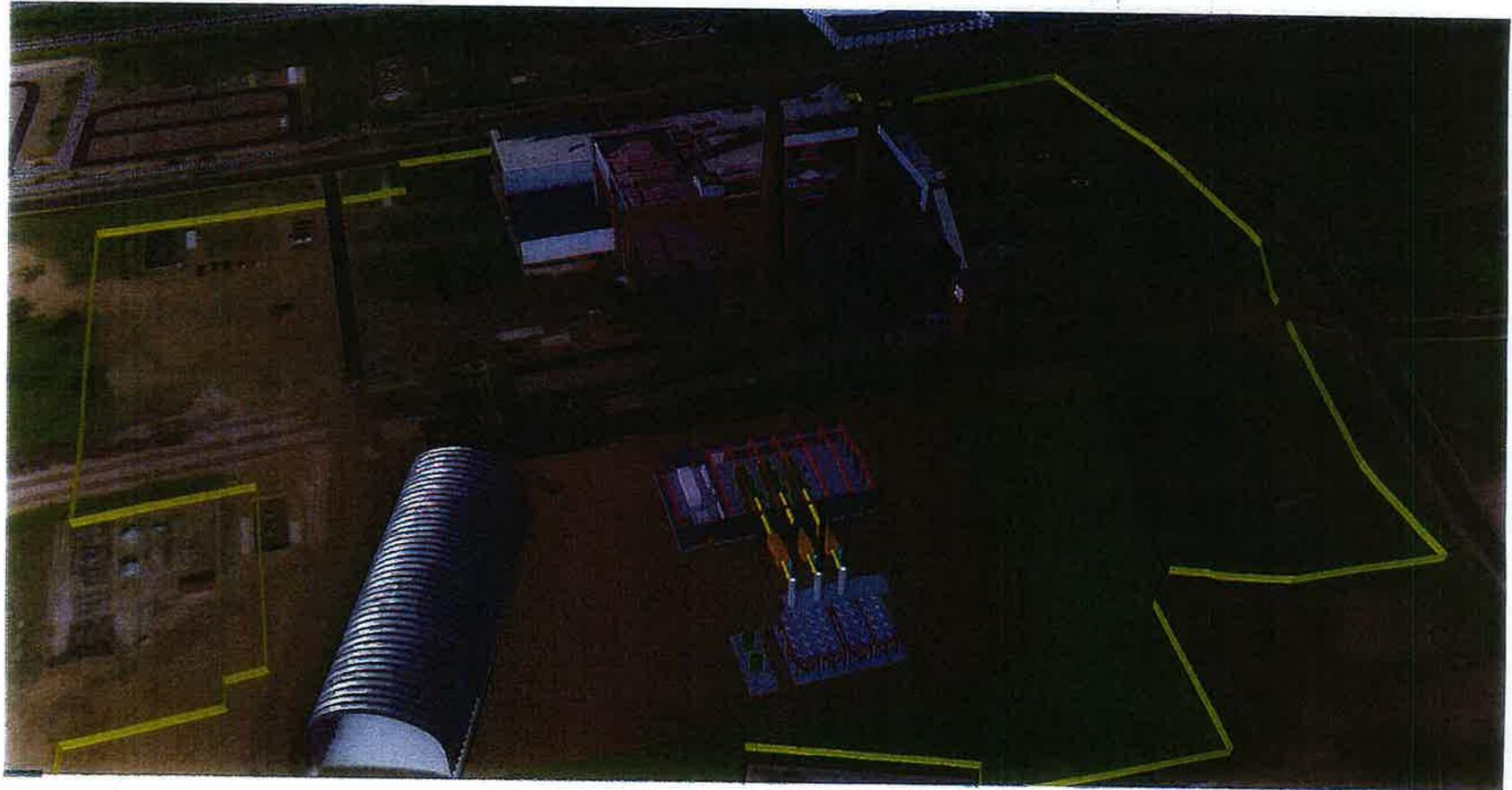
T.B. Simon
Power Plant



Project Approval – Authorization to Proceed
T.B. Simon Power Plant – Plant Modernization - RICE

MICHIGAN STATE
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Site Rendering



**MICHIGAN STATE
UNIVERSITY**

October 16, 2017

MEMORANDUM

To: Trustee Finance Committee

From: Daniel J. Bollman *Daniel J. Bollman*
Associate Vice President for Strategic Infrastructure Planning
and Facilities

Subject: **Authorization to Plan**
T.B. Simon Power Plant - Plant Modernization



RECOMMENDATION

The Trustee Finance Committee recommends that the Board of Trustees authorize the Administration to plan for the next phases of power generation for campus, including new production capability at the T. B. Simon Power Plant.

RESOLUTION

BE IT RESOLVED, that the Board of Trustees of Michigan State University hereby authorizes the Administration to plan for three projects under the title of "T.B. Simon Power Plant - Plant Modernization."

BACKGROUND

Program Need:

MSU's T.B. Simon Power Plant has provided cogenerated steam and electricity to the East Lansing campus for more than five decades. This cogeneration facility continues to provide competitive financial advantages to MSU relative to Big Ten peers and other Michigan universities, and has a proven record of unsurpassed reliability for providing electrical power and steam to campus.

The original generation equipment is almost 60 years old, conventionally considered the end of its useful life. Maintenance costs for outdated boilers and turbines are on the rise. The campus demand for electricity will continue to rise much faster than for steam, thus moving the Power Plant's generation equipment further and further away from the balance that is optimal for efficiency.

Changing technology allows MSU to consider a different approach for the next generation of power production. There are technical advances in electrical and steam generation equipment, improvements in the nation's natural gas infrastructure, and lower prices for energy storage solutions. A



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carefully balanced set of strategic investments will enable MSU to modernize its central power plant, save energy and significantly lower costs.

General Description of the Project:

The transition to the next generation of power generation is expected to involve three separate upgrades. As planning begins, project teams will examine options to deliver each component as efficiently as possible, including coordination with other infrastructure needs. Each will return for Board action at the Authorization to Proceed and, if appropriate, Bid and Contract Award stages:

- **RICE**
Install a high-efficiency electrical generation facility consisting of four Reciprocating Internal Combustion Engines (RICE) with a combined power of at least 35 Megawatts, which will increase efficiency significantly.
(CP17197; estimate of \$38,000,000 - \$40,000,000)
- **Medium Pressure Steam Boiler**
Install a medium-pressure steam boiler, which can provide up to 200,000 pounds of steam to campus and would allow retiring two 50-year old boilers and steam turbines.
(CP17198; estimate of \$6,000,000 - \$7,000,000)
- **Reverse Osmosis**
This system would replace the existing boiler water treatment system, eliminating the need for large quantities of costly chemicals and result in significant environmental and safety benefits.
(CP17199; estimated to be less than \$1,000,000)

The Power Plant is located on Service Road in the service district and these projects would be consistent with the Campus Land Use Master Plan.

Communication Plan:

Input will be solicited from the campus community during the planning phase.

Preliminary Project Cost Information:

Based on cost experience for similar projects and current pricing information, preliminary project cost estimate ranges have been developed for these three projects, and the aggregate estimated project costs are \$45,000,000-\$48,000,000. The estimated cost for each project may change as that project and its scope are refined during the planning process. Each project's cost will be presented in the request for Authorization to Proceed.

The source of funds for the project is expected to be the general fund - utilities.

cc: Trustee Policy Committee, L. Simon, J. Youatt, S. Udpa, B. Beekman, R. Noto, V. Gore, M. Haas, J. Gaboury, B. Kranz, M. McCabe, J. Mumma, J. Rayis, J. Samuels, W. Bauer, R. Ellerhorst

MICHIGAN STATE UNIVERSITY

June 21, 2019



MEMORANDUM

To: Committee on Budget and Finance

From: Daniel J. Bollman *Daniel J. Bollman*
Vice President for Strategic Infrastructure Planning and Facilities

Subject: **Project Approval - Authorization to Proceed**
STEM Teaching and Learning Facility and Shaw Lane Power Plant
Adaptive Re-use (*budget adjustment*)

RECOMMENDATION

The Trustee Committee on Budget and Finance recommends that the Board of Trustees authorize the Administration to increase the budget for the Science, Technology, Engineering, and Mathematics (STEM) Teaching and Learning Facility to formally recognize the inclusion of two large classrooms and the increased costs primarily associated with more extensive abatement and demolition at the Shaw Lane Power Plant. In addition, the construction market reflects increasing competition for labor and materials.

RESOLUTION

BE IT RESOLVED, that the Board of Trustees of Michigan State University hereby authorizes the Administration to increase the budget for the project entitled "STEM Teaching and Learning Facility and Shaw Lane Power Plant Adaptive Re-use," to \$106,700,000 and \$3,400,000 project contingency, for a total budget of no more than \$110,100,000.

BACKGROUND

The Board authorized this project in June 2018, with a budget of \$97,500,000, which included a project contingency of \$5,500,000. The project is comprised of approximately 117,000 gross square feet of space (STEM), and renovations to the existing approximate 40,000 square foot Shaw Lane Power Plant. The combined facility will house undergraduate teaching and project laboratories, breakout space, commons, gallery and studio space, the HUB for Innovation in Learning and Technology, the Biological Sciences program, and the Undergraduate Research office.



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Budget Adjustment:

In December 2018, the Administration, in consultation with the Board, opted to proceed with the addition of two large classrooms of approximately 15,000 square feet, with a budget of \$6,500,000, which included \$600,000 of project contingency, increasing the project total to \$104,000,000. This change was less than 10% of the originally approved budget thereby not requiring a formal Board action.

As construction has progressed, it has become clear that the abatement of the Shaw Lane Power Plant is more extensive than anticipated. Despite early remediation of known asbestos in the building, more material has been exposed during the demolition and removal of remaining equipment and fixtures. In addition, the construction market reflects increasing competition for labor and materials. After review, the Administration proposes to increase the existing project by \$2,700,000 to \$106,700,000 for the facility.

Finally, the Administration proposes authorization of an additional \$3,400,000 to partially restore the project contingency. Contingency funds will only be expended upon approval by the Executive Vice President for Administration. In sum, the revised budget for the project is authorized at no more than \$110,100,000.

The Construction Manager is Granger Construction Company. The Architect/Engineer is Integrated Design Solutions.

Communication Feedback:

Members of the campus community had opportunities to provide feedback during the planning phase. Any concerns they expressed have been addressed in the project design.

IPF will continue to share the construction schedule and progress with the campus community.

Project Cost and Timetable:

The STEM facility will be funded by a combination of State of Michigan Capital Outlay funding and debt financing with debt repayment from the general fund. The former Shaw Lane Power Plant renovations including the classroom addition will be funded by the general fund including classroom improvements reserve, teaching and learning environment reserve; utility reserve, the Jenison Trust and/or debt financing with debt repayment from the above sources.

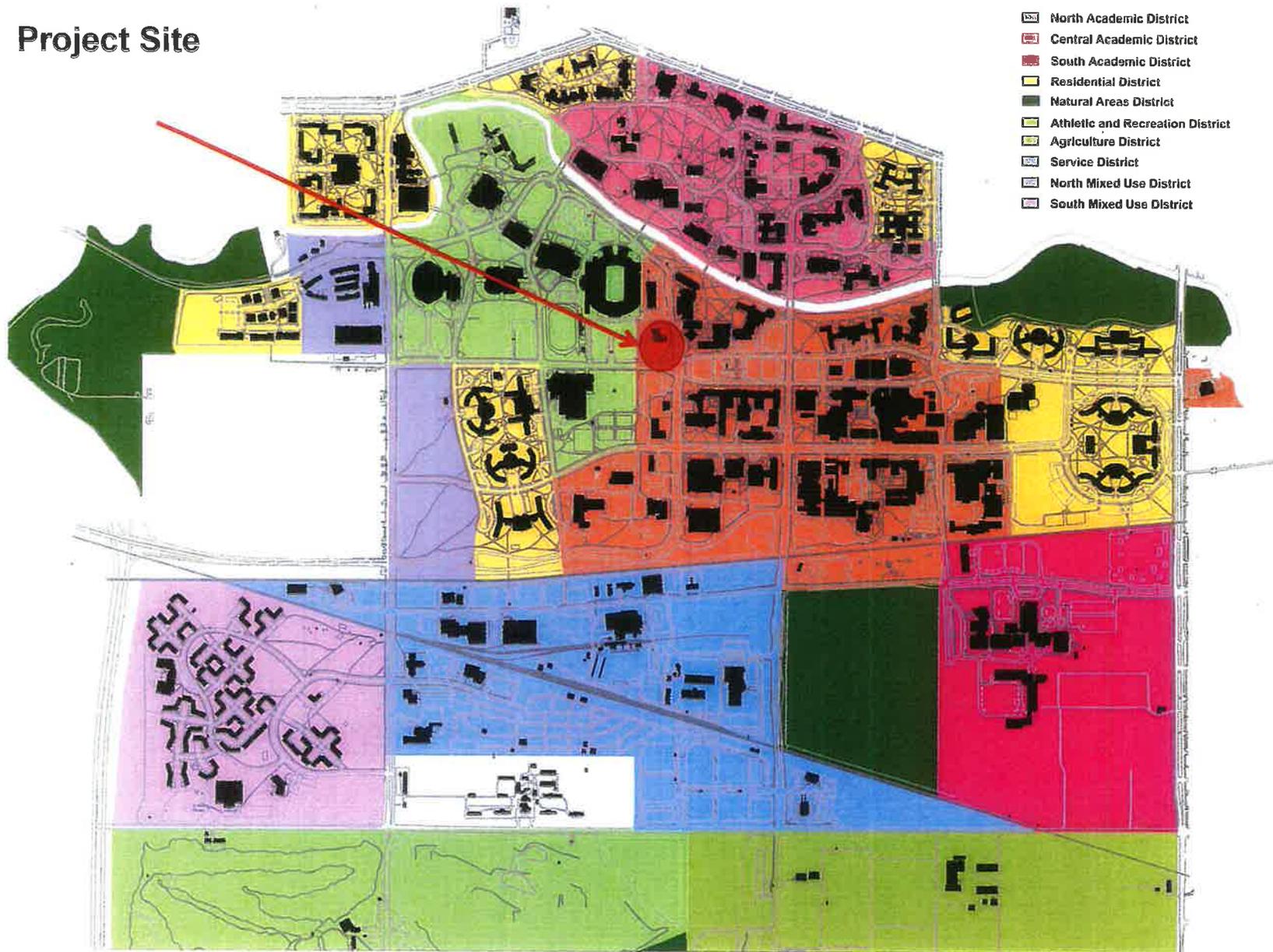
Construction is expected to achieve substantial completion in September 2020.

cc: Board of Trustees, S. Udpa, J. Youatt, N. Barr, K. Wilbur, M. Zeig, B. Quinn, V. Gore, M. Haas, J. Gaboury, B. Kranz, M. McCabe, J. Mumma, J. Rayis, L. Adams, K. Oosterhoff, C. Carter, L. Senecal

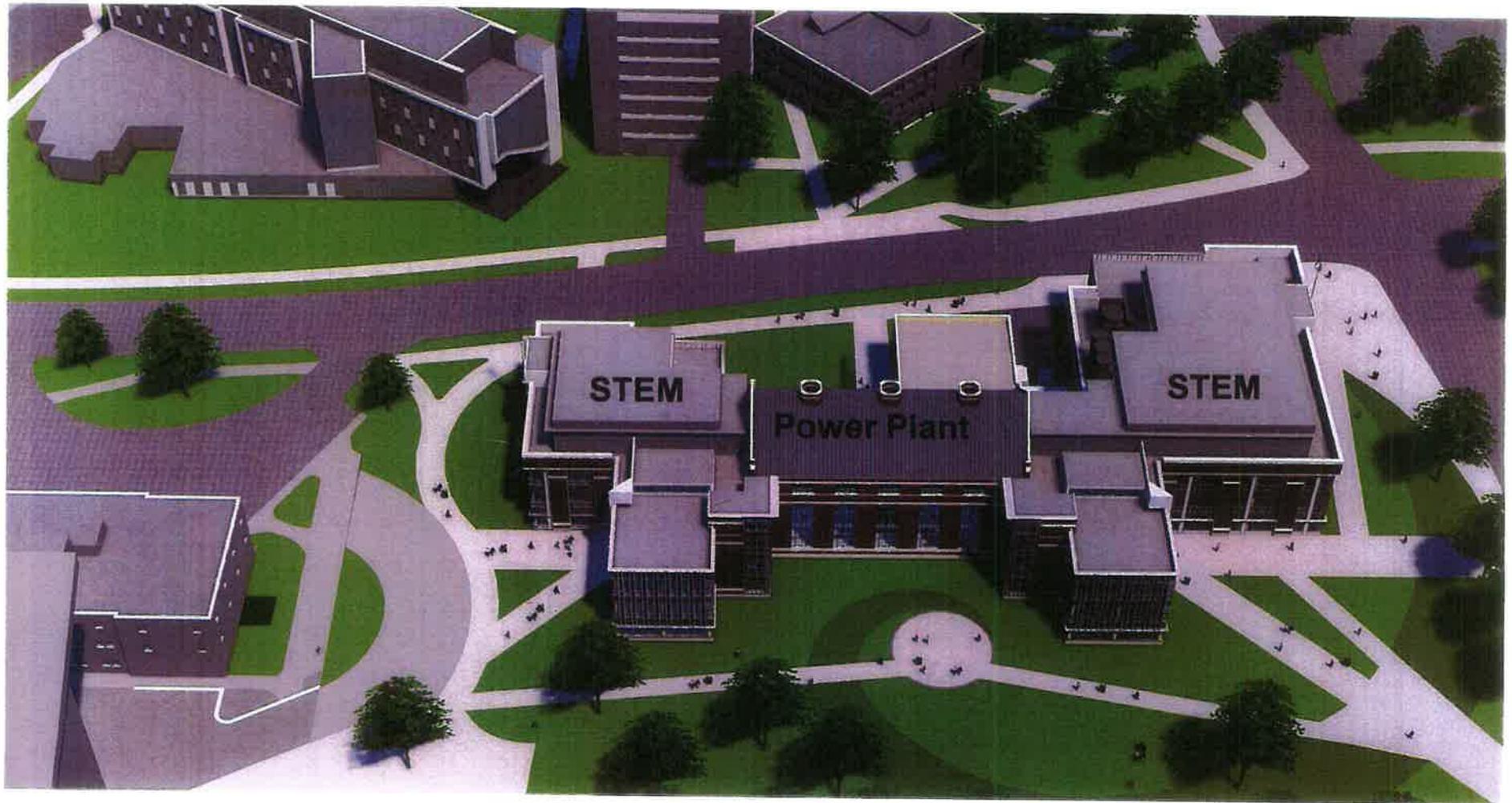
Project Approval - Authorization to Proceed
STEM Teaching and Learning Facility and Shaw Lane Power Plant Adaptive Re-use *(budget adjustment)*

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Project Site



Aerial View from West



**MICHIGAN STATE
UNIVERSITY**

October 19, 2015



MEMORANDUM

To: Trustee Finance Committee

From: June Pierce Youatt *June Pierce Youatt*
Provost and Executive Vice President for Academic Affairs

Subject: **Authorization to Plan**
Strategic Academic Development Initiative - STEM Teaching and Learning and Interdisciplinary Research Facilities

RECOMMENDATION

The Trustee Finance Committee recommends that the Board of Trustees authorize the Administration to plan for additional space to accommodate significant growth in science, technology, engineering, and mathematics (STEM) enrollments and related research.

RESOLUTION

BE IT RESOLVED, that the Board of Trustees of Michigan State University hereby authorizes the Administration to plan for the project entitled "Strategic Academic Development Initiative - STEM Teaching and Learning and Interdisciplinary Research Facilities".



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BACKGROUND

Program Need:

It is anticipated that MSU academic units will continue to experience significant growth in STEM-related teaching and research. To address these trends, significant capital investment is required.

More than a third of the University's teaching and research laboratories are housed in facilities that are over 40 years old. Modern design strategies that support best practices in teaching and research, reflecting shifts in instructional methods, code compliance, and the collaborative nature of research, are difficult to achieve programmatically and cost effectively in many of our older facilities.

In addition, over the past ten years, enrolled credit hours in STEM and STEM-related courses have increased by 38%. Construction of a new laboratory instructional space supporting STEM disciplines is necessary to accommodate this programmatic direction, address the obsolescence of existing facilities, and

increase operational efficiency. Such a facility would also align with the priority placed by the State and federal governments on educating more students in these disciplines. A new STEM teaching and learning facility would include modern wet bench teaching laboratories that incorporate active learning principles, foster cross-disciplinary teaching and learning, and support developing and evolving changes in curriculum and its delivery. The facility would consolidate a number of teaching laboratories that are currently dispersed across campus to create a central hub for STEM teaching and learning. Such a facility would address internal needs as well as State Capital Outlay criteria. Spaces made available as a result of consolidating teaching labs would be renovated and repurposed to accommodate additional research space needs in currently active research buildings.

At the same time, focusing on faculty research capability will enhance MSU's ability to attract acclaimed scientists and position Michigan as a center for STEM and related programs. MSU external awards have increased 54 percent over the last ten years. Further, the Board recently approved the Global Impact Initiative (GII), which is expected to bring 65-100 new research faculty hires to MSU over the next five years. The strategic vision of GII is to solidify MSU's place among the world's premier research and teaching institutions. New interdisciplinary science research laboratory capacity is key to this endeavor.

To successfully prepare for this future, it is necessary to plan simultaneously for additional research and teaching laboratory facilities through a strategic combination of new construction, renovation, and improved utilization of existing space.

General Description of Project:

The planning for the Strategic Academic Development Initiative will be comprehensive and will involve several construction projects, principally new STEM teaching and learning lab space and new interdisciplinary research facilities. Locations for these projects are likely to include the Central Academic District generally adjacent to the Biomedical and Physical Sciences Building, and the South Academic District at Service Road generally between Bogue Street and Hagadorn Road, generally adjacent to the Clinical Center.

The planning will evaluate programmatic emphases in STEM, in both teaching and research, such as the biological sciences, chemistry, engineering and neuroscience; consider programmatic and core facility adjacencies to facilitate interdisciplinary research and collaborations and to leverage operational efficiencies; be flexible and responsive to developing and emerging instructional methods and the evolving research enterprise; and employ site evaluation methods that account for infrastructure requirements. The projects may be

configured in various ways depending on these factors, and the elements of each project will also depend on their locations and sources of funding.

It is anticipated that the components of this Initiative will be brought to the Board for authorization to proceed based on urgency of programmatic need, State Capital Outlay status, and development of internal funding strategies.

Communication Plan:

Input will be solicited from the campus community during the planning phase.

Preliminary Project Cost Information:

The planning for this Initiative will incur costs for consultants, designers, and architects. The Administration will update the Board on project cost estimates during the latter stages of the planning phase. It is anticipated that funding for the overall Initiative will be a combination of general fund cash, long-term debt financing, and State Capital Outlay funding.

cc: Trustee Policy Committee, L. Simon, S. Udpa, B. Beekman, R. Noto,
D. Bollman, V. Gore, M. Haas, J. Kacos, G. Klein, M. McCabe, J. Mumma,
J. Samuels, B. Kranz

CP15235

**MICHIGAN STATE
UNIVERSITY**

June 8, 2018

MEMORANDUM



To: Trustee Finance Committee

From: Daniel J. Bollman *Daniel J. Bollman*
Associate Vice President for Strategic Infrastructure Planning
and Facilities

Subject: **Project Approval - Authorization to Proceed**
STEM Teaching and Learning Facility and Shaw Lane Power
Plant Adaptive Re-use
*(Strategic Academic Development - STEM Teaching and
Learning and Interdisciplinary Research Facilities)*

RECOMMENDATION

The Trustee Finance Committee recommends that the Board of Trustees authorize the Administration to proceed with construction of a new building and renovation of an existing building to accommodate significant growth in Science, Technology, Engineering, and Mathematics (STEM) enrollments and to improve and enhance the undergraduate learning experience across the sciences, arts, and humanities.

RESOLUTION

BE IT RESOLVED, that the Board of Trustees of Michigan State University hereby authorizes the Administration to proceed with the projects entitled "STEM Teaching and Learning Facility" with a budget of \$72,500,000 and "Shaw Lane Power Plant Adaptive Re-use" with a budget of \$25,000,000 for a combined total project budget of \$97,500,000. This action is contingent on approval of a Capital Outlay appropriation by the State of Michigan for planning and construction of the STEM Teaching and Learning Facility.

BACKGROUND

In October 2015 the Board authorized planning for the Strategic Academic Development Initiative - STEM Teaching and Learning and Interdisciplinary Research Facilities. This combined project would be the second major piece of the initiative. The first project was the Interdisciplinary Science and Technology Building, focused on research, which is scheduled to open in summer 2019. The University is actively planning for future phases, including



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the repurposing of existing instructional and research laboratories on campus that will be made available as a result of this initiative.

Capital Outlay:

Michigan Public Act 107 of 2017 provided capital outlay authorization to plan for the "STEM Teaching and Learning Facility." The State of Michigan Department of Technology, Management and Budget has recommended to the Joint Capital Outlay Subcommittee approval for planning and construction for the STEM Facility. It is expected that the Legislature will approve the appropriation the week of June 11. Approval by the Governor is anticipated to follow. The State share of the STEM Facility project is \$29,870,000. This facility is the highest priority project for MSU. The renovations of the former Shaw Lane Power Plant will be funded entirely by the University.

Program Need:

It is anticipated that MSU academic units will continue to experience significant growth in STEM-related teaching. More than a third of the University's teaching laboratories are housed in facilities that are over 40 years old. Modern design strategies that support best practices in teaching and research and reflect shifts in instructional methods, use of technology, code compliance, and emphasis on team-based and self-guided learning are difficult to achieve programmatically and are not cost effective in many of our older facilities.

In addition, over the past ten years, enrolled credit hours in STEM and STEM-related courses have increased by 38%. Construction of a new laboratory instructional space supporting STEM disciplines is necessary to accommodate this programmatic direction, address the obsolescence of existing facilities, and increase operational efficiency. Such a facility would also align with the priority placed by the State and federal governments on educating more students in these disciplines.

A modern STEM teaching and learning facility is a key, competitive argument for why students should come to MSU to study. The facility will not only leverage the research being conducted at MSU on STEM teaching and learning, but will facilitate scientific interactions at the undergraduate student level and improve the University's ability to successfully compete for and retain talented students in STEM disciplines. There is untapped training potential that can be developed with the establishment of a facility that places instructors together based on the ability to create and investigate emerging pedagogies. These new pedagogies will help to ensure student success and better prepare students for graduation and professional careers in the fields of scientific discovery, health, and engineering. It will allow the University to create an environment that encourages innovation and entrepreneurship.

The STEM Facility will include modern wet bench teaching laboratories that incorporate active learning principles, foster cross-disciplinary teaching and learning, and support developing and evolving changes in curriculum and its delivery. The pairing of the STEM Facility with the renovation of the former Shaw Lane Power Plant is intended to support and promote interdisciplinary and collaborative opportunities for a range of student experiences both curricular and co-curricular, provide opportunities for research on teaching and learning, support the evolution of teaching and learning methods, and create a campus hub for teaching and learning across the sciences, arts and humanities.

Description of Project:

The project is located north of Shaw Lane and west of Red Cedar Road in the central academic district. The STEM Facility will include new construction of approximately 117,000 gross square feet that comprises an addition on the north and south sides of the former Shaw Lane Power Plant. The existing approximate 40,000 gross square foot at the former Shaw Lane Power Plant will be renovated to provide adaptive re-use of an existing facility. The pairing of these two projects affords a unique opportunity for the university community to create a campus hub for teaching and learning.

The STEM Facility will house undergraduate teaching laboratories, project laboratories, and breakout space that will support gateway courses for biological sciences, chemistry, computer science, physics, and engineering in a central campus location. The former Shaw Lane Power Plant will house a vibrant and active student commons and gallery that seamlessly connects the STEM Facility addition and gallery. It will also include student studio space, an idea accelerator for faculty and students, the HUB for Innovation in Learning and Technology, student help center, the Biological Sciences Program offices, and the Undergraduate Research office. Collectively, this campus hub leverages programming, space utilization, and sharing of physical infrastructure and operational resources.

The new construction and resulting pedestrian circulation, necessitate closing lot 79E, losing approximately 75 parking spaces. There is available parking in lot 79 to accommodate the lost parking.

The Construction Manager is Granger Construction Company. The Architect/Engineer is Integrated Design Solutions.

Communication Feedback:

Members of the campus community had opportunities to provide feedback during the planning phase. Any concerns they expressed have been addressed in the project design.

The IPF Planning, Design, and Construction office has reviewed this project and found it to be consistent with the Campus Land Use Master Plan. The

Campus Infrastructure Planning Work Group supports the recommendation to proceed with the project.

As construction proceeds, the schedule will be shared with the campus community.

Project Cost and Timetable:

The budget for this Construction Management project is \$97,500,000 (\$72.5M STEM + \$25.0M Shaw Lane Power Plant Adaptive Re-use), including a combined \$5,500,000 contingency. The STEM Facility will be funded by a combination of State of Michigan Capital Outlay funding, the general fund or debt financing with debt repayment from the general fund. The Shaw Lane Power Plant Adaptive Re-use will be funded by the general fund or debt financing with debt repayment from the general fund.

The Board was previously advised of the need for abatement of hazardous materials and replacement of asbestos shingles at the Shaw Lane Power Plant, and that work is scheduled to begin in June 2018. Construction of the new STEM Facility and renovations to the Shaw Lane Power Plant is anticipated to begin August 2018 with the facility ready for occupancy in September 2020, pending State of Michigan Capital Outlay authorization.

cc: Trustee Policy Committee, J. Engler, J. Youatt, S. Udpa, B. Beekman, R. Young, V. Gore, M. Haas, J. Gaboury, B. Kranz, M. McCabe, J. Mumma, J. Rayis, K. Watson, C. Sisk, L. Kempel, R. Hendrick, J. Grabill, J. Prush

**MICHIGAN STATE
UNIVERSITY**

June 21, 2019

MEMORANDUM

To: Committee on Academic Affairs
From: June Pierce Youatt
Executive Vice President and Provost
Subject: Revisions to Policy 04-17-07 (Emeritus Title)



RECOMMENDATION

The Trustee Committee on Academic Affairs recommends that the Board of Trustees approve revisions to the Policy 04-17-07 (Emeritus Title).

RESOLUTION

BE IT RESOLVED, that the Board of Trustees of Michigan State University hereby approves revisions to the Emeritus Title Policy (04-17-07), as shown in Attachment A.

BACKGROUND

The "emeritus" title is an honorific award made at retirement, and grants certain privileges. The University Committee on Faculty Affairs (UCFA) considered whether or not the title and privileges should be extended to additional individuals under certain circumstances and if there were circumstances under which the honorific title should be revoked.

The UCFA has reviewed and approved two proposed revisions to the Emeritus Title Policy. The first allows for the "emeritus" title to be conferred upon faculty, academic, and administrative staff who end their employment at MSU after a substantial period of distinguished service short of the years of service needed for retirement eligibility, upon recommendation of the Provost to the President, after consultation with the UCFA. The second change allows for the revocation of emeritus status in those exceptional cases in which behavior occurring or discovered after being awarded emeritus status is deemed to be substantially inconsistent with the behavior expected of MSU faculty, academic staff, and administrative staff. The UCFA must approve a revocation recommendation from the Provost and President.

Upon a careful review of the policy, the revisions were initiated by the UCFA and approved by the University Council at its meeting on March 26, 2019.

cc: Board of Trustees, S. Udpa, K. Wilbur, N. Barr, B. Quinn, M. Zeig, G. Hoppenstand, T. Curry



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EMERITUS TITLE

04-17-07

Members of the faculty, academic staff and administrative staff who leave the University with official retirement status and in good standing¹ are granted certain privileges and the "emeritus" title. For faculty members with the rank of professor, associate professor or assistant professor, the "emeritus" designation is appended to the rank held at the time of retirement, e.g., professor emeritus. For academic staff the title would be librarian emeritus, etc. For administrators whose administrative appointment requires approval by the Board of Trustees ~~and for all executive managers~~, the emeritus designation, upon approval by the Provost and the President, is appended only to the most senior administrative title held at Michigan State University, which may be held at or prior to the time of retirement, e.g., dean emeritus. The emeritus designation is not normally awarded for administrative titles held on an "acting" basis.

Faculty, academic staff, and administrative staff who end their employment at the University after a substantial period of distinguished service short of the years of service needed for retirement eligibility, may be granted emeritus status upon the recommendation of the Provost to the President, after the Provost consults with the University Committee for Faculty Affairs.

Faculty with the emeritus designation are entitled to attend Academic Senate meetings with voice but without vote; to march in academic processions such as commencement; ~~to receive the MSU News-Bulletin;~~ to avail themselves of the libraries; to have continued access to an MSU e-mail account; to receive, on application, a faculty vehicle permit; to represent the University, on appointment, at academic ceremonies of other institutions; and, in general, to take part in the social and ceremonial functions of the University.

Emeritus status may be revoked upon the recommendation of the Provost to the President, after approval by the University Committee for Faculty Affairs in those exceptional cases in which behavior occurring or discovered after being awarded emeritus status is deemed to be substantially inconsistent with the behavior expected of Michigan State University faculty, academic staff, and administrative staff.

Enacted: 5/18/50

Amended: 4/5/91, 6/21/19

¹ "Good Standing" is assumed unless one ends employment while suspended or during dismissal proceedings.

**MICHIGAN STATE
UNIVERSITY**

June 21, 2019



MEMORANDUM

To: Committee on Academic Affairs
From: June Pierce Youatt
Executive Vice President and Provost
Subject: Revisions to Policy 04-17-05 (Consensual Amorous or Sexual Relationships)

RECOMMENDATION

The Trustee Committee on Academic Affairs recommends that the Board of Trustees approve revisions to Policy 04-17-05 (Consensual Amorous or Sexual Relationships).

RESOLUTION

BE IT RESOLVED, that the Board of Trustees of Michigan State University hereby restates Policy 04-17-05 (Consensual Amorous or Sexual Relationships) in its entirety, as shown in Attachment A.



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BACKGROUND

The relationship between an instructor and a student plays an important role in accomplishing Michigan State University's mission of "providing outstanding undergraduate, graduate, and professional education to promising, qualified students in order to prepare them to contribute fully to society as globally engaged citizen leaders."

Achieving and maintaining an environment in which a student's rights can be fully realized requires an academic community that values and honors the principles of inclusivity, civility, respect, and professionalism. It is therefore recognized by Michigan State University that consensual amorous and sexual relationships between instructors and students are counterintuitive to these rights and responsibilities, to the environment desired, and in upholding the mission of the University. Such personal relations undermine the integrity of the instructor and student relationship. There is an inherent power differential between instructors and students, making consensual amorous and sexual relationships between instructors and students fundamentally unequal.

The purpose of this policy is to ensure that Michigan State University's learning environment reflects our moral and ethical responsibility to manage the power differential that exists when there are consensual amorous and sexual relationships between instructors and students.

MSU's current policy on Consensual Amorous or Sexual Relationships between faculty and students was approved by the Board on November 8, 1996 and has not been updated since that time. While the policy discourages such relationships where a faculty member, graduate teaching assistant or other University employee has educational responsibilities for students, **it does not ban such relationships**. It requires acknowledgement of the relationship to one's administrator so that appropriate controls can be put into place to protect the student.

After reviewing the policies at peer institutions, and after consulting with the Council of Deans and University Committee for Faculty Affairs, the proposed revised policy **bans consensual amorous and sexual relationships between faculty and academic staff and undergraduate students**. Graduate teaching assistants may not initiate such relationships with undergraduate students with whom there is educational responsibility. Faculty and academic staff may not initiate such relationships with graduate or lifelong education students where there are educational responsibilities. Pre-existing relationships must be disclosed to the appropriate unit administrator and dean, with review by the Associate Provost and Associate Vice President for Academic Human Resources, so that appropriate oversight can be arranged.

Upon a careful review of the policy, the revisions were initiated by the University Committee on Faculty Affairs (UCFA) and approved by the University Council at its meeting on April 23, 2019.

cc: Board of Trustees, S. Udpa, K. Wilbur, N. Barr, B. Quinn, M. Zeig, G. Hoppenstand, T. Curry

CONSENSUAL AMOROUS OR SEXUAL RELATIONSHIPS WITH STUDENTS¹**04-17-05****I. Introduction**

Michigan State University's mission includes "providing outstanding undergraduate, graduate, and professional education to promising, qualified students in order to prepare them to contribute fully to society as globally engaged citizen leaders." The student, as a member of the academic community, has both rights and duties. Within that community, the student's most essential right is the right to learn. The University has a duty to provide for the student those privileges, opportunities, and protections which best promote the learning process in all its aspects.²

The relationship between an instructor³ and a student plays an important role in accomplishing this mission. Certain responsibilities bestowed upon instructors have long been codified in the Faculty Rights and Responsibilities policy:

The teacher has the responsibility to encourage the pursuit of learning by students by manifesting the best academic standards of the discipline or profession. To accord students respect as individuals, the teacher shall seek to establish a relationship of mutual trust and to establish an appropriate role as an intellectual guide, counselor and mentor, both in and out of the classroom.

The establishment and maintenance of the proper relationship between instructor and student are fundamental to the University's function, and require both the instructor and student to recognize the rights and responsibilities which derive from it. The relationship between instructor and student as individuals should be founded on mutual respect, trust and understanding, together with shared dedication to the educational process.⁴

Instructors carry a responsibility to students, colleagues, the scholarly community, and the public to perform their duties in a professional, respectful, and collegial manner⁵, and must do so with a commitment to honoring the highest ethical standards. They are regarded as guardians of the

¹ This policy replaces the previous policy, "Conflict of Interest in Educational Responsibilities Resulting from Consensual Amorous or Sexual Relationships" approved by the Board of Trustees on November 8, 1996.

² Adapted from Article 1 of the Spartan Life Student Handbook.

³ The term, "instructor," as used in this document, applies to faculty, academic staff, and graduate teaching assistants who have educational responsibilities for students.

⁴ Adapted from Article 2 of the Spartan Life Student Handbook.

⁵ These responsibilities are fully articulated in the Faculty Rights and Responsibilities policy:

<https://hr.msu.edu/policies-procedures/faculty-academic-staff/faculty-handbook/faculty-rights.html>

University, charged with preserving in it the privilege of teaching students which society has entrusted to their care.

To achieve and maintain an environment in which a student's rights can be fully realized requires an academic community that values and honors the principles of inclusivity, civility, respect, and professionalism. The University is committed to creating a safe learning environment free of conflicts in achieving its educational mission.

It is therefore recognized by Michigan State University that consensual amorous and sexual relationships between instructors and students are counterintuitive to these rights and responsibilities, to the environment desired, and in upholding the mission of the University. Such personal relations undermine the integrity of the instructor and student relationship. There is an inherent power differential between instructors and students making consensual amorous and sexual relationships between instructors and students fundamentally unequal.

II. Purpose

The purpose of this policy is to ensure that Michigan State University's learning environment reflects our moral and ethical responsibility to manage the power differential that exists when there are consensual amorous and sexual relationships between instructors and students.

III. Applicability

This Policy applies to faculty, academic staff, and graduate teaching assistants.

IV. Definitions

- A. Consensual amorous or sexual relationships: Relationships of a romantic, dating, and/or sexual nature entered into with consent of both parties. These relationships may or may not involve physical contact, and can include digital relationships via text, social media, etc. This definition also covers past relationships.
- B. Educational responsibility: The power or authority to evaluate, influence, provide, or control aspects related to a student's education or professional development. Covered activities include, but are not limited to, teaching, grading, mentoring, advising, evaluating research or other academic activity, serving on a student's dissertation committee, participating in decisions or recommendations regarding funding or other resources, clinical supervision, and recommending for admissions, employment fellowships, or awards.

V. Policy

- A. Undergraduate Students

An amorous or sexual relationship between an undergraduate student and a faculty member, academic staff member, or a graduate teaching assistant may impair or undermine the ongoing trust needed for effective teaching, learning and professional development. Because of the faculty or academic staff member's authority or power over the student, inherently conflicting interests and perceptions of unfair advantage arise when a faculty, academic staff member, or graduate teaching assistant assumes or maintains educational responsibility for a student with whom the faculty or academic staff member has or is engaged in amorous or sexual relations.

Such consensual amorous or sexual relationships, even absent any educational responsibility, may lead to unanticipated conflicts of interest since an instructor's influence and power may extend beyond the classroom or department. Due to the institutional power differential in instructor and undergraduate student relationships, there is the inherent risk of coercion and the perception by others of exploitation.

It is, therefore, the policy of Michigan State University that any amorous or sexual relationships between an undergraduate student enrolled at the University and a faculty member, academic staff member, or graduate teaching assistant is prohibited, as follows:

1. For faculty and academic staff members, this prohibition covers all relationships, regardless of whether the faculty or academic staff member has educational responsibility over the undergraduate student. Where relationships predate the enrollment of the undergraduate student at Michigan State University, the faculty or academic staff member must immediately disclose the amorous or sexual relationship to the relevant unit administrator. The unit administrator shall promptly consult with the dean/director and the Associate Provost and Associate Vice President for Academic Human Resources, who will review the circumstances surrounding each relationship on a case-by-case basis. If permitted, a management plan will be developed. This plan must be evaluated annually between the unit administrator and the faculty or academic staff member.
2. For graduate teaching assistants, this prohibition only applies with respect to undergraduate students over whom they have educational responsibility. Thus, graduate teaching assistants must not begin a relationship with undergraduate students for whom they have educational responsibility. When such amorous or sexual relationships predate the assumption of educational responsibility for the undergraduate student, the graduate teaching assistant shall immediately disclose the amorous or sexual relationship to the relevant unit administrator, who shall promptly arrange other oversight for the student.

B. Graduate Students and Graduate Professional Students (hereafter referred to collectively as graduate students)

A power differential also exists in relationships between a graduate student and a faculty or academic staff member.

It is therefore the policy that faculty and academic staff are prohibited from engaging in a consensual amorous or sexual relationship with a graduate student over whom there is educational responsibility.

Where the relationship predates the faculty or academic staff member's assumption of educational responsibility for the graduate student, the faculty or academic staff member shall immediately disclose the amorous or sexual relationship to the relevant unit administrator.

The relevant unit administrator, in consultation with the dean and Academic Human Resources, shall promptly arrange other oversight for the student.

1. The oversight plan must be evaluated annually between the unit administrator and the faculty or academic staff member.

C. Lifelong students and other learners

The University provides education to lifelong students and others who are not classified as undergraduate, graduate, or graduate professional students.

It is, therefore, the policy of Michigan State University that a faculty, academic staff member, or graduate teaching assistant who currently has educational responsibility for a lifelong student or other non-undergraduate or non-graduate student at the University may not begin a relationship with that student when they have educational responsibilities over the student.

A faculty, academic staff member or graduate teaching assistant shall immediately disclose the amorous or sexual relationship to the relevant unit administrator where the relationship predates their assistant's assumption of educational responsibility for the student. The relevant unit administrator shall promptly arrange other oversight for the student in consultation with the dean and Academic Human Resources. Such oversight is to be evaluated annually.

D. Post-Doctoral Fellows (i.e. Research Associates)

Consensual amorous or sexual relationships between faculty and academic staff and post-doctoral fellows (i.e. research associates) over whom there is educational responsibility are prohibited. Where such a relationship predates the assumption of

educational responsibility, the faculty or academic staff member shall immediately disclose the relationship with the relevant unit administrator, who shall develop an oversight plan in consultation with the dean and Academic Human Resources, to be evaluated annually.

VI. Exceptions to this Policy

No exceptions will be made in circumstances where the instructor has educational oversight for the student. In other words, an instructor may not, under any circumstances, be in a relationship with a student for whom they have educational responsibility. However, the University recognizes that rare, unique, and/or unusual circumstances may warrant evaluation of an exception to the prohibition of undergraduate student relationships with a faculty or academic staff member (e.g., a faculty member's spouse/partner enrolls as an undergraduate student). It is the responsibility of the faculty or academic staff member to initiate an exception request as soon as possible. Approval will be automatically granted in the scenario where a faculty member's spouse/partner enrolls as an undergraduate student.

These requests will be evaluated by the unit administrator, in consultation with the dean and the Associate Provost and Associate Vice President for Academic Human Resources, on a case-by-case basis. Any exceptions granted must be evaluated annually.

VII. Implementation of Policy

This policy was implemented on ____ . Existing relationships that are now prohibited under this policy (i.e., undergraduate student and faculty and academic staff member relationships) and relationships subject to the new disclosure requirements of this policy must be disclosed to the relevant unit administrator within thirty (30) days of the effective date of this policy. The unit administrator shall promptly consult with the dean/director and the Associate Provost and Associate Vice President for Academic Human Resources, who will review the circumstances surrounding each relationship on a case-by-case basis. If permitted, a management plan will be developed.

VIII. Record-Keeping

The unit administrator (e.g. department chairperson, school director, dean of a non-departmentally organized college) must retain records related to the disclosed conflict, management plans, and alternative arrangements made for educational oversight for the student. Documents must be maintained according to University retention policies.

IX. Violations

Failure to comply with this policy will be considered a violation of policy and is subject to appropriate disciplinary action up to and including termination.

X. Relation to Other Policies

This policy is not intended to replace or circumvent other established University policies such as the Conflict of Interest in Employment Policy and the Relationship Violence and Sexual Misconduct Policy.

Enacted 11/8/96
Amended: 6/21/19

CONSENSUAL AMOROUS OR SEXUAL RELATIONSHIPS

04-17-05

An amorous or sexual relationship between a student and a faculty member, a graduate teaching assistant or another University employee who has educational responsibility for that student may impair or undermine the ongoing trust needed for effective teaching, learning and professional development. Because of the faculty member, graduate assistant or other employee's authority or power over the student, inherently conflicting interests and perceptions of unfair advantage arise when a faculty member, graduate teaching assistant or other employee assumes or maintains educational responsibility for a student with whom the faculty member, graduate teaching assistant or other employee has engaged in amorous or sexual relations.

It is, therefore, the policy of Michigan State University that each faculty member, graduate teaching assistant and other University employee who has educational responsibilities for students shall not assume or maintain educational responsibility for a student with whom the faculty member, graduate teaching assistant or other employee has engaged in amorous or sexual relations, even if such relations were consensual. Whether such amorous or sexual relationships predate the assumption of educational responsibility for the student, or arise out of the educational relationship, the faculty member, graduate teaching assistant or other employee shall immediately disclose the amorous or sexual relationship to the relevant unit administrator, who shall promptly arrange other oversight for the student.

In unusual circumstances, the achievement of the affected student's academic requirements may necessitate continued oversight of the affected student by the faculty member, graduate teaching assistant or other University employee who has engaged in amorous or sexual relations with that student. In such circumstances the unit administrator shall, therefore, have authority, after consulting the affected student, to permit the continued oversight of the affected student by the faculty member, graduate teaching assistant or other University employee, provided that the faculty member, graduate teaching assistant or other University employee shall not grade or otherwise evaluate, or participate in the grading or other evaluation of, the work of the affected student, and that the alternative arrangements for grading or evaluating the affected student's work treat the student comparably to other students.

Enacted: 11/8/96

**MICHIGAN STATE
UNIVERSITY**

June 21, 2019

MEMORANDUM

To: Committee on Academic Affairs

From: June Pierce Youatt
Executive Vice President and Provost

Subject: Amendment to Section 4.4.1 of the Bylaws for Academic Governance



RECOMMENDATION

The Trustee Committee on Academic Affairs recommends that the Board of Trustees approve an amendment to Section 4.4.1 of the Bylaws for Academic Governance to provide the Honors College with Representation on the University Committee on Undergraduate Education.

RESOLUTION

BE IT RESOLVED, that the Board of Trustees of Michigan State University hereby approves an amendment to Section 4.4.1 of the Bylaws for Academic Governance to provide the Honors College with Representation on the University Committee on Undergraduate Education, as shown in Attachment A.

BACKGROUND

The University Committee on Undergraduate Education (UCUE) shares responsibility with the Dean of Undergraduate Studies to consult with the Provost on academic programs, curriculum policies, evaluation of instruction, academic advising, grading policies and admissions. Pursuant to Section 4.4.1 of the Bylaws for Academic Governance, membership of this standing committee is comprised of representatives from each of the undergraduate degree granting colleges. While many of the issues debated in UCUE affect (or may be affected by) the Honors College, there was no designated representation of the Honors College. This change provides for that representation.

Upon a careful review of the Bylaws, this revision was initiated by the University Committee on Academic Governance and approved by the University Council at its meeting on November 20, 2018.

In accordance with Section 8.3.2.1 of the Bylaws for Academic Governance, the Acting President has reviewed the changes, concurs with the proposed revisions, and now requests action by the Board of Trustees.

cc: Board of Trustees, S. Udpa, K. Wilbur, N. Barr, B. Quinn, M. Zeig, G. Hoppenstand, T. Curry



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4.3. UNIVERSITY COMMITTEE ON ACADEMIC GOVERNANCE

4.3.1. The University Committee on Academic Governance (UCAG) shall include a faculty member from each college, and a faculty member from the non-college faculty. Eligibility to serve on UCAG is limited to faculty members who have previously served on a University-level Standing Committee or the Faculty Senate. Three undergraduate student members of ASMSU, two graduate student members from COGS, the Provost, and the Secretary for Academic Governance shall be ex-officio members of UCAG.

4.3.1.1. The UCAG shall report to the University Council.

4.3.1.2. The chairperson of the UCAG shall be a member of The Steering Committee, and thus of the Faculty Senate and the University Council.

4.3.2. The UCAG shall nominate to the University Council individuals who may be appointed to University-level Advisory-Consultative Committees, and other committees as may be requested by the University Council.

4.3.2.1. Only the faculty members of the UCAG shall nominate faculty to the committees listed in 4.3.2.

4.3.2.2. ASMSU shall appoint undergraduate students to fill the vacant undergraduate student positions on the committees of 4.3.2 in accordance with the procedures outlined in ASMSU's bylaws. COGS shall appoint graduate and professional students to fill the vacant graduate student positions on the committees of 4.3.2 in accordance with the procedures outlined in COGS bylaws.

4.3.2.3. The Secretary for Academic Governance shall provide staff assistance to UCAG in developing nominations.

4.3.3. The UCAG shall conduct a continuing review of the Bylaws and shall be responsible for recommending amendments in these Bylaws to the University Council.

4.3.4. The UCAG shall interpret these Bylaws subject to review by the University Council.

4.3.5. The UCAG shall review college bylaws for consistency with these Bylaws. It shall review each college's bylaws at least once every five years.

4.3.6. The UCAG shall review unit appeals in cases of conflict between units and consider appeals of reviews of department or school bylaws by college committees.

4.3.7. Decisions of the UCAG on college and department bylaws are subject to review by the University Council.

4.3.8. The UCAG shall provide guidelines for elections or appointment to committees, boards, and panels affiliated with the University Council. The UCAG will review challenged elections, and recommend appropriate action to the University Council.

4.4. UNIVERSITY COMMITTEE ON UNDERGRADUATE EDUCATION

4.4.1. The membership of the University Committee on Undergraduate Education (UCUE) shall include a faculty member from each college, including a faculty member from the Honors College who is not

currently serving as a committee member on another University Standing Committee and a faculty member from the non-college faculty. UCUE shall also have four undergraduate student members, of whom one must be the Vice President of Academic Affairs of ASMSU, and two graduate student members from COGS. The Provost shall be a member with voice, but no vote.

4.4.1.1. The UCUE shall report to the University Council (3.2.5).

4.4.1.2. Each year the UCUE shall appoint one of its faculty members to serve as an ex-officio member on the Athletic Council.

4.4.2. The chairperson of the UCUE will serve on The Steering Committee and thus on the University Council and the Faculty Senate.

4.4.3. The UCUE shall exercise the faculty's delegated authority on grading policy for undergraduate students and the use of grades and grade point averages for undergraduate admissions and for advancement in or graduation from undergraduate academic programs.

4.4.4. The UCUE shall review all changes in undergraduate academic programs proposed by academic units and recommend their approval or rejection to the University Committee on Curriculum.

4.4.5. The UCUE shall have shared responsibility with the Dean of Undergraduate Studies to consult with the Provost on the establishment, moratorium, discontinuance, or merger of undergraduate academic programs; on policies pertaining to curriculum revision, methods of instruction, evaluation of instruction, and advising and counseling for undergraduate students and programs; and on other policies pertaining to undergraduate education. On issues of the establishment, moratorium, discontinuance, and merger of undergraduate academic programs, the University Council and the Faculty Senate will be informed of the UCUE's consultation with the Provost.

4.4.6. The UCUE shall have shared responsibility with the Dean of Undergraduate Studies to consult with the Provost on policy pertaining to admissions and retention, financial aid, and the use and distribution of educational and research resources for undergraduate students and programs.

4.4.7. The UCUE shall advise and consult with the Dean of Undergraduate Studies and the Provost and make recommendations to the University Council on all other matters of academic policy affecting undergraduate students.

4.4.8. The UCUE shall coordinate its activities with those of other committees, as appropriate.

MICHIGAN STATE
UNIVERSITY

June 21, 2019



MEMORANDUM

To: Committee on Audit, Risk and Compliance

From: June Pierce Youatt *June Pierce Youatt*
Executive Vice President and Provost

Subject: Approval of Contract Terms: Publishing Contract for Dr. Peter C. Alegi

RECOMMENDATION

The Trustee Committee on Audit, Risk and Compliance recommends that the Board of Trustees approve a contract between Michigan State University and Dr. Peter C. Alegi, an MSU faculty member.

RESOLUTION

BE IT RESOLVED, that the Board of Trustees of Michigan State University hereby approves a publishing contract with Dr. Peter C. Alegi consistent with earlier public notice given at a Board meeting and with a "Publishing Contract 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 Dr. Peter C. Alegi was given at the Board of Trustees meeting on December 18, 2015 and approval of the resulting contact was given at a meeting on June 21, 2017. The terms of a publishing contract renewal are now presented for Board approval.

Dr. Peter C. Alegi is a Professor in the Department of History.

The attached "Publishing Contract Term Sheet" summarizes the agreement that MSU has negotiated with Dr. Peter Alegi.

cc: Board of Trustees, S. Udpa, N. Barr, M. Zeig, S. Hsu, B. Mattes,
K. Wilbur, B. Quinn, C. Berg



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PUBLISHING CONTRACT TERM SHEET

Party: Dr. Peter C. Alegi

Project Description: Renewal of a contract for the editing of a book series entitled *African History and Culture*

Term: Two years

Agreement: Dr. Alegi will receive two free copies of each published work, and additional copies at a 40% discount from the retail price.

Services Provided: By MSU to Dr. Alegi: Publication of book series
By Dr. Alegi to MSU: Editing the book manuscripts

**Use of University Facilities/
Personnel:** Not Applicable

Organization Type: Dr. Alegi is contracting as an individual.

Personnel Interest: This contract will be directly between Dr. Alegi, a Professor in the Department of History, and MSU.

MICHIGAN STATE
UNIVERSITY

June 21, 2019



MEMORANDUM

To: Committee on Audit, Risk and Compliance

From: June Pierce Youatt 
Executive Vice President and Provost

Subject: Approval of Contract Terms: *Fraunhofer USA, Inc. #1*

RECOMMENDATION

The Trustee Committee on Audit, Risk and Compliance recommends that the Board of Trustees approve a contract between Michigan State University and *Fraunhofer USA, Inc.*, a company in which MSU faculty member Dr. Thomas Schuelke holds an interest.

RESOLUTION

BE IT RESOLVED, that the Board of Trustees of Michigan State University hereby approves a sponsored research agreement with *Fraunhofer USA, Inc.* consistent with earlier public notice given at a Board meeting and with a "Sponsored Research 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 *Fraunhofer USA, Inc.*, a Rhode Island nonprofit corporation, was given at the Board of Trustees meeting on April 12, 2019. The terms of a sponsored research agreement are presented for Board approval.

Dr. Thomas Schuelke, a Professor in the Department of Electrical and Computer Engineering, is President of *Fraunhofer USA, Inc.*

The attached "Sponsored Research Agreement Term Sheet" summarizes the agreement that MSU has negotiated with *Fraunhofer USA, Inc.*

cc: Board of Trustees, S. Udpa, N. Barr, M. Zeig, S. Hsu, B. Mattes,
K. Wilbur, B. Quinn, C. Berg



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SPONSORED RESEARCH AGREEMENT TERM SHEET

Party: Fraunhofer USA, Inc.

Agreement: Subcontract under Plasmability's US Army contract (MSU reference number RC108803) for Vertical Growth Technique for Diamond Substrate

Term: May 1, 2018 to April 30, 2020

Payment Terms: \$124,999 for services provided

Services Provided:
By MSU to Fraunhofer USA, Inc.: None contemplated under the agreement

By Fraunhofer USA, Inc. to MSU: Develop a process for polishing diamond substrates

**Use of University Facilities/
Personnel:** Center for Coatings and Diamond Technologies within the College of Engineering; collaborators include Dr. Timothy Grotjohn, Dr. Tim Hogan, and Dr. Thomas Shuelke

Organization Type: Rhode Island nonprofit corporation

Personnel Interest: Dr. Thomas Schuelke, a Professor in the Department of Electrical and Computer Engineering, is President of Fraunhofer USA, Inc.

**MICHIGAN STATE
UNIVERSITY**

June 21, 2019



MEMORANDUM

To: Committee on Audit, Risk and Compliance

From: June Pierce Youatt 
Executive Vice President and Provost

Subject: Approval of Contract Terms: *Fraunhofer USA, Inc. #2*

RECOMMENDATION

The Trustee Committee on Audit, Risk and Compliance recommends that the Board of Trustees approve a contract between Michigan State University and *Fraunhofer USA, Inc.*, a company in which MSU faculty member Dr. Thomas Schuelke holds an interest.

RESOLUTION

BE IT RESOLVED, that the Board of Trustees of Michigan State University hereby approves a sponsored research agreement with *Fraunhofer USA, Inc.* consistent with earlier public notice given at a Board meeting and with a "Sponsored Research 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 *Fraunhofer USA, Inc.*, a Rhode Island nonprofit corporation, was given at the Board of Trustees meeting on April 12, 2019. The terms of a sponsored research agreement are presented for Board approval.

Dr. Thomas Schuelke, a Professor in the Department of Electrical and Computer Engineering, is President of *Fraunhofer USA, Inc.*

The attached "Sponsored Research Agreement Term Sheet" summarizes the agreement that MSU has negotiated with *Fraunhofer USA, Inc.*

cc: Board of Trustees, S. Udpa, N. Barr, M. Zeig, S. Hsu, B. Mattes, K. Wilbur, B. Quinn, C. Berg



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SPONSORED RESEARCH AGREEMENT TERM SHEET

Party: Fraunhofer USA, Inc.

Agreement: Subcontract under Kyma Technologies, Inc.'s Small Business Innovation Research program (MSU reference number RC109059) for Development of Large Area Mosaic Single Crystal Diamond Substrates

Term: May 10, 2018 to May 9, 2019

Payment Terms: \$99,911 for services provided

Services Provided:
By MSU to Fraunhofer USA, Inc.: None contemplated under the agreement

By Fraunhofer USA, Inc. to MSU: Laser cut and polish diamond substrates in preparation for diamond deposition

Use of University Facilities/ Personnel: Center for Coatings and Diamond Technologies within the College of Engineering; collaborators include Dr. Timothy Grotjohn, Dr. Tim Hogan, and Dr. Thomas Shuelke

Organization Type: Rhode Island nonprofit corporation

Personnel Interest: Dr. Thomas Schuelke, a Professor in the Department of Electrical and Computer Engineering, is President of Fraunhofer USA, Inc.

**MICHIGAN STATE
UNIVERSITY**

June 21, 2019



MEMORANDUM

To: Committee on Audit, Risk and Compliance

From: June Pierce Youatt 
Executive Vice President and Provost

Subject: Approval of Contract Terms: *Fraunhofer USA, Inc. #3*

RECOMMENDATION

The Trustee Committee on Audit, Risk and Compliance recommends that the Board of Trustees approve a contract between Michigan State University and *Fraunhofer USA, Inc.*, a company in which MSU faculty member Dr. Thomas Schuelke holds an interest.

RESOLUTION

BE IT RESOLVED, that the Board of Trustees of Michigan State University hereby approves a sponsored research agreement with *Fraunhofer USA, Inc.* consistent with earlier public notice given at a Board meeting and with a "Sponsored Research 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 *Fraunhofer USA, Inc.*, a Rhode Island nonprofit corporation, was given at the Board of Trustees meeting on April 12, 2019. The terms of a sponsored research agreement are presented for Board approval.

Dr. Thomas Schuelke, a Professor in the Department of Electrical and Computer Engineering, is President of *Fraunhofer USA, Inc.*

The attached "Sponsored Research Agreement Term Sheet" summarizes the agreement that MSU has negotiated with *Fraunhofer USA, Inc.*

cc: Board of Trustees, S. Udpa, N. Barr, M. Zeig, S. Hsu, B. Mattes, K. Wilbur, B. Quinn, C. Berg



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SPONSORED RESEARCH AGREEMENT TERM SHEET

Party: Fraunhofer USA, Inc.

Agreement: Subcontract under Department of Energy contract (MSU reference number RC108668) for Boride-Carbon Hybrid Technology to Produce Ultra-Wear and Corrosion Resistant Surfaces for Applications in Harsh Conditions

Term: May 16, 2018 to November 15, 2019

Payment Terms: MSU is providing is \$275,648 and Fraunhofer will cost share \$101,767 for a total of \$377,415 for services provided

Services Provided:

By MSU to Fraunhofer USA, Inc.: None contemplated under the agreement

By Fraunhofer USA, Inc. to MSU: Identify performance benefits of wear and corrosion of boride-carbon hybrid technology

Use of University Facilities/ Personnel: Center for Coatings and Diamond Technologies within the College of Engineering; collaborators include Dr. Timothy Grotjohn, Dr. Qi Fan, and Dr. Thomas Shuelke

Organization Type: Rhode Island nonprofit corporation

Personnel Interest: Dr. Thomas Schuelke, a Professor in the Department of Electrical and Computer Engineering, is President of Fraunhofer USA, Inc.

MICHIGAN STATE
UNIVERSITY

June 21, 2019

APPROVED

JUN 21 2019

BOARD OF TRUSTEES
MICHIGAN STATE UNIVERSITY

MEMORANDUM

To: Committee on Audit, Risk and Compliance

From: June Pierce Youatt 
Executive Vice President and Provost

Subject: Approval of Contract Terms: *Fraunhofer USA, Inc. #4*

RECOMMENDATION

The Trustee Committee on Audit, Risk and Compliance recommends that the Board of Trustees approve a contract between Michigan State University and *Fraunhofer USA, Inc.*, a company in which MSU faculty member Dr. Thomas Schuelke holds an interest.

RESOLUTION

BE IT RESOLVED, that the Board of Trustees of Michigan State University hereby approves a sponsored research agreement with *Fraunhofer USA, Inc.* consistent with earlier public notice given at a Board meeting and with a "Sponsored Research 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 *Fraunhofer USA, Inc.*, a Rhode Island nonprofit corporation, was given at the Board of Trustees meeting on April 12, 2019. The terms of a sponsored research agreement are presented for Board approval.

Dr. Thomas Schuelke, a Professor in the Department of Electrical and Computer Engineering, is President of *Fraunhofer USA, Inc.*

The attached "Sponsored Research Agreement Term Sheet" summarizes the agreement that MSU has negotiated with *Fraunhofer USA, Inc.*

cc: Board of Trustees, S. Udpa, N. Barr, M. Zeig, S. Hsu, B. Mattes,
K. Wilbur, B. Quinn, C. Berg



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SPONSORED RESEARCH AGREEMENT TERM SHEET

Party: Fraunhofer USA, Inc.

Agreement: Subcontract under Michigan Economic Development Corporation (MSU reference number RC108920) for Development of Scalable Linear Ion Sources for Thin Film Processing

Term: August 1, 2018 to July 31, 2019

Payment Terms: \$10,000 for services provided

Services Provided:
By MSU to Fraunhofer USA, Inc.: None contemplated under the agreement

By Fraunhofer USA, Inc. to MSU: develop single beam ion source technology

Use of University Facilities/ Personnel: Center for Coatings and Diamond Technologies within the College of Engineering; collaborators include Dr. Qi Fan and Dr. Thomas Shuelke

Organization Type: Rhode Island nonprofit corporation

Personnel Interest: Dr. Thomas Schuelke, a Professor in the Department of Electrical and Computer Engineering, is President of Fraunhofer USA, Inc.

MICHIGAN STATE
UNIVERSITY

June 21, 2019



MEMORANDUM

To: Committee on Audit, Risk and Compliance

From: June Pierce Youatt 
Executive Vice President and Provost

Subject: Approval of Contract Terms: Publishing Contract for Dr. Kenneth W. Harrow

RECOMMENDATION

The Trustee Committee on Audit, Risk and Compliance recommends that the Board of Trustees approve a contract between Michigan State University and Dr. Kenneth W. Harrow, an MSU faculty member.

RESOLUTION

BE IT RESOLVED, that the Board of Trustees of Michigan State University hereby approves a publishing contract with Dr. Kenneth W. Harrow consistent with earlier public notice given at a Board meeting and with a "Publishing Contract 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 Dr. Kenneth W. Harrow was given at the Board of Trustees meeting on December 18, 2015 and approval of the resulting contract was given at a meeting on June 21, 2017. The terms of a publishing contract renewal are now presented for Board approval.

Dr. Kenneth W. Harrow is a Professor in the Department of English.

The attached "Publishing Contract Term Sheet" summarizes the agreement that MSU has negotiated with Dr. Kenneth W. Harrow.

cc: Board of Trustees, S. Udpa, N. Barr, M. Zeig, S. Hsu, B. Mattes, K. Wilbur, B. Quinn, C. Berg



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PUBLISHING CONTRACT TERM SHEET

Party: Dr. Kenneth W. Harrow

Project Description: Renewal of a contract for the co-editing of a book series entitled *African Humanities and the Arts*

Term: Two years

Agreement: Dr. Harrow will receive two free copies of each published work, and additional copies at a 40% discount from the retails price.

Services Provided: By MSU to Dr. Harrow: Publication of book series
By Dr. Harrow to MSU: co-editing the book manuscripts

**Use of University Facilities/
Personnel:** Not Applicable

Organization Type: Dr. Harrow is contracting as an individual.

Personnel Interest: This contract will be directly between Dr. Harrow, a Professor in the Department of English, and MSU.

**MICHIGAN STATE
UNIVERSITY**

June 21, 2019



MEMORANDUM

To: Committee on Audit, Risk and Compliance

From: June Pierce Youatt *June Pierce Youatt*
Executive Vice President and Provost

Subject: Approval of Contract Terms: *Jetfire Power Systems, Inc.*

RECOMMENDATION

The Trustee Committee on Audit, Risk and Compliance recommends that the Board of Trustees approve a contract between Michigan State University and *Jetfire Power Systems, LLC*, a company in which MSU faculty member Dr. Harold Schock holds a financial interest.

RESOLUTION

BE IT RESOLVED, that the Board of Trustees of Michigan State University hereby approves an option agreement with *Jetfire Power Systems, Inc.* consistent with earlier public notice given at a Board meeting and with an "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 *Jetfire Power Systems, Inc.*, a Michigan corporation, was given at the Board of Trustees meeting on April 12, 2019. The terms of an option agreement are now presented for Board approval.

Dr. Harold Schock, Professor in the Department of Mechanical, and members of his family own or have options to buy an ownership interest of more than 1% of the company.

The attached "Option Agreement Term Sheet" summarizes the agreement that MSU has negotiated with *Jetfire Power Systems, Inc.*

cc: Board of Trustees, S. Udpa, N. Barr, M. Zeig, S. Hsu, B. Mattes, K. Wilbur, B. Quinn, C. Berg



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OPTION AGREEMENT TERM SHEET

Party: Jetfire Power Systems, Inc.

Agreement: Option for exclusive license in all fields

Technology: MSU technology disclosure TEC2013-0003 and TEC2016-0119 entitled "Turbulent Jet Ignition Internal Combustion Engine" (US Patent 10,161,296); TEC2018-0010 "Diesel Engine with Tubulent Jet Ignition" (PCT/US2018/043879)

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

Term: Six months from the effective date, an additional six months with payment of an additional fee

Potential Commercial Application: Enhanced combustion in an internal combustion engine using pre-chamber

Payment Terms: Up-front payment of \$500 to MSU, \$500 to extend the option for an additional six months

Services Provided: By MSU to Jetfire Power Systems, Inc.: None contemplated under the agreement
By Jetfire Power Systems, Inc. to MSU: None contemplated under the agreement

Organization Type: Michigan corporation

Personnel Interest: Dr. Harold Schock, Professor in the Department of Mechanical Engineering and members of his family, own or have options to buy an ownership interest of more than 1% of the company.

**MICHIGAN STATE
UNIVERSITY**

June 21, 2019



MEMORANDUM

To: Committee on Audit, Risk and Compliance

From: June Pierce Youatt 
Executive Vice President and Provost

Subject: Approval of Contract Terms: *National Pesticide Safety and Education Center*

RECOMMENDATION

The Trustee Committee on Audit, Risk and Compliance recommends that the Board of Trustees approve a contract between Michigan State University and the *National Pesticide Safety and Education Center*, a center in which MSU employee Mr. Tom Smith holds an interest.

RESOLUTION

BE IT RESOLVED, that the Board of Trustees of Michigan State University hereby approves a service agreement with the *National Pesticide Safety and Education Center* consistent with earlier public notice given at a Board meeting and with a "Service 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 the *National Pesticide Safety and Education Center*, a Michigan nonprofit corporation, was given at the Board of Trustees meeting on April 12, 2019. The terms of a service agreement are now presented for Board approval.

Mr. Tom Smith, Associate Director of MSU's Institute of Agricultural Technology has an interest in the center.

The attached "Service Agreement Term Sheet" summarizes the agreement that MSU has negotiated with the *National Pesticide Safety and Education Center*.

cc: Board of Trustees, S. Udpa, N. Barr, M. Zeig, S. Hsu, B. Mattes, K. Wilbur, B. Quinn, C. Berg



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SERVICE AGREEMENT TERM SHEET

Party: National Pesticide Safety and Education Center
("NPSEC")

Agreement: MSU will provide Executive Director services to the NPSEC.

Term: February 1, 2019 to January 31, 2020

Payment Terms: \$146,412.65 to MSU in fees for service

Services Provided: By MSU to NPSEC: Provide Executive Director services including, but not limited to: (1) oversight, establishment and operation of the governance structure for the NPSEC; (2) development, implementation and management of a business plan and budget; (3) marketing and communication services offered by NPSEC; (4) maintenance of quality control and efficiencies for NPSEC products and services; and (5) oversight of fiscal activities, budget management and financial practices

By NPSEC to MSU: None contemplated under the agreement

Use of University Facilities/Personnel: Efforts of Mr. Tom Smith

Organization Type: Michigan nonprofit corporation

Personnel Interest: Mr. Tom Smith is the Associate Director of MSU's Institute of Agricultural Technology and is the Executive Director of the National Pesticide Safety and Education Center.