Conversation with Provost
June Pierce Youatt

October 9, 2017
Today’s Agenda

I. Good News and Progress

II. Priorities and Current Activities

III. Short Break

IV. Priorities and Upcoming Opportunities

V. Advice on How to Meet a Pressing Priority
Today’s Goals

• Leave with a broader perspective on University activities
• Consider impact and opportunity for involvement in emerging activities
• Help shape response to a campus-wide educational need
<table>
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<tr>
<th><strong>Provide support for faculty resulting in greater scholarly productivity and instructional effectiveness</strong></th>
<th>Recruit and retain a diverse faculty</th>
<th>Create a more supportive work environment</th>
<th>Create a healthier campus community</th>
<th>Create a more positive campus climate</th>
<th>Continue to emphasize the University’s elevating expectations</th>
<th>Engage in planning that anticipates opportunities, demands, and resources</th>
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<tr>
<td><strong>Pursue multiple strategies for expanding, enhancing, elevating scholarship</strong></td>
<td>Increase competitiveness in key areas</td>
<td>Build academic infrastructure to support emerging work</td>
<td>Build physical infrastructure to support emerging work</td>
<td>Expand research infrastructure that supports emerging work</td>
<td>Continue to identify and hold to metrics for improvement</td>
<td>Create incentives that support innovation</td>
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<td><strong>Pursue multiple strategies for enhancing student success: retention, graduation, achievement</strong></td>
<td>Use analytics to understand the teaching and learning process</td>
<td>Use technology to enhance teaching and learning</td>
<td>Create new models for curriculum and instruction</td>
<td>Use the Higher Learning Commission accreditation process to encourage progress around learning outcomes</td>
<td>Continue to look at institutional outcomes and goals</td>
<td>Engage in curriculum reform that changes the nature and shape of the educational experience</td>
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Headline Accomplishments

• For AY 2016-17, total gifts, grants, and contracts exceeded $596 million, a record year for MSU
• First-year, first-semester probation rate fell to 7.0% for Fall 2016, from 7.9% for Fall 2015
• Approximately 1,835 new graduate students at the master’s and doctoral levels, an increase of 100 over the previous year
• MSU ranks in the top 8 percent of universities in the U.S., according to the latest annual assessment from the Wall Street Journal and Times Higher Education, #80 of 1,054
• MSU places 38th among the 303 U.S. universities ranking in Washington Monthly’s 2017 College Guide and Rankings
• 71 New Endowed Chairs and Professorships
• Capital Campaign reached $1.507 billion in August
• MSU Counseling and Psychiatric Services (CAPS) up and running, 3rd floor Olin Health Center
• $88.1 million Grand Rapids Research Center unveiled in September
Doug Gage

Global Impact Initiative
Global Impact Initiative Update

Doug Gage
October 9, 2017
Competitive Landscape
Leading Universities, Peers and Others Are All Making Significant Research Investments
“Business As Usual” Is Not An Option

- **Harvard** – $400 M endowment; engineering & applied science
- **UCSD** – adding 80 faculty, with 20 in multi-disciplinary posts
- **University of Texas** – $50 M; recruit Nobel Laureates and NAS members
- **Purdue** – engineering strategic growth initiative; add 107 faculty
- **Ohio State University** – $400M to hire 500 faculty in health, energy, food
- **University of Cincinnati** – add 50 engineering faculty
- **Oregon State University** – add 30 positions
- **UC Riverside** – add 300 faculty
Global Impact Initiative (GI2)

A little history...

Goals

- Hire new faculty to enhance the national and international excellence and competitiveness of MSU as an AAU university.

- Focus on STEM and Biomedical Disciplines

Proposals solicited from faculty with the following goals:
- envision tenure hires that promote national and international excellence (grant dollars, citations, awards)
- align with externally established “Grand Challenges”
- address recognized need for competitiveness at NIH, and other Federal agencies
- build on international strengths and funding, if possible
- impact institutional diversity

88 proposals received,
34 concepts advanced after vetting/consultation with faculty, chairs, colleges and leadership
Emerging approach for disease prevention and treatment that takes into account people’s individual variations in genes, environment, and lifestyle

The **time is right** because of:
- Sequencing of the human genome
- Improved technologies for biomedical analysis
- New tools for using large datasets

New Precision Medicine Initiative from OSTP/NIH will genotype 1 million Americans
KEY INVESTMENT AREA: COMPUTATION

- MSU CSE only 23 FTE
- New Computational Math Science and Engineering department: ~20 new faculty
- Big data, supercomputing, algorithms
- Applications to engineering, physics, biology, and many other fields
GII Hires to Date

Total faculty signed
2015- Oct 2017: 65
   Senior: 21
   Junior: 44

Pending offers or Candidates in Play
   Senior: 3
   Junior: 6

Lead College (Senior/Junior)
   Natural Science: 4/20
   Engineering: 7/15
   Human Med: 9/3
   Ag & Natural Resources: 1/5

Departments
   Biochemistry and Molec. Biol.: 3
   Chemistry: 2
   Integrative Biology: 2
   Math: 1
   Physics & Astronomy: 5
   Plant Biology: 4

Computational Math, Science & Engineering: 9
   Chemical Engineering & Materials Science: 3
   Computer Science & Engineering: 7
   Electrical & Computer Engineering: 7
   Mechanical Engineering: 3

   Epidemiology & Biostatistics: 1
   OB/GYN & Reproductive Biology: 4

Public Health: 2
   Radiology: 2
   Trans. Sci. and Molec. Med.: 2

   Animal Science: 4
   Food Sci Human Nutr.: 1
   Horticulture: 1
GII Lessons Learned

• Quality membership on search committees is critical.

• Close collaboration with colleges, departments, OBP and Facilities group is essential.

• Senior hires are a challenge, as expected; yield on junior hires around 75%.

• Startup and renovation costs were higher than expected.

• Spousal accommodations have worked well.
## Approved GII Searches for 2017-2018

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**TOTAL**                                | 25        | 2          |
Sonya Gunnings-Moton

MSU-Detroit Dialogue
**Informative** – Provide an overview of the general landscape reflective of the breadth of MSU engagement in Detroit.

**Resources** – Share tools developed to facilitate widespread awareness of efforts, promote cross-disciplinary/unit initiatives, build upon the scale and impact of work, and encourage effectiveness and efficiency in use of our resources.

**Collaborative Framework** – Establish a structure for collaborative dialogue among MSU stakeholders.

**Solicit Feedback** – To inform future efforts and focus of the MSU-Detroit Impact Team.
REGISTRATION

education.msu.edu/msu-detroit-dialogue

klove317@msu.edu or gunnings@msu.edu
Jeff Grabill

Science Gallery
ART AND SCIENCE HAS A NEW HOME IN DETROIT
MSU’S SCIENCE GALLERY LAB DETROIT RECEIVES $1M GRANT

Contact(s): Kim Ward, Teal Amthor-Shaffer

Science Gallery Lab Detroit will launch exhibits in summer 2018 with help
Science Gallery Lab Detroit

• The Intersection, a series of eight monthly engagements with artists who incorporate various STEM disciplines into their practice.
  • SG values: surprise, connect, participate

• Poetry Slam. November 11
  • SG values: surprise, connect, participate

• Gallery Show: Summer 2018. Theme by Nov. 1
Intersection 1:
Thursday, November 9, 2017 at 6pm

Pairs visual artist Sam Van Aken with Dr. Beronda Montgomery (MSU) Foundation Professor in the Department of Biochemistry and Molecular Biology, and the Department of Microbiology and Molecular Genetics.

They will be exploring natural phenomena as a metaphor for ways to modify and transform our own environment and local conditions.
Amy Jamison

Alliance for African Partnership
In what ways is the AAP supporting and innovating new spaces and ways of working?
Alliance for African Partnership

- Co-creation process started at convening at MSU, May 2016

- Launched in Dar es Salaam, Tanzania, July 2017

- Mission: To bring about positive change in Africa through meaningful partnerships
AAP Framework and Priority Areas

BUILDING BRIDGES
- Outreach
- Networking
- Facilitation
- Coordination

Transforming Institutions
- Consultation
- Strategic Planning
- Capacity Building

Transforming Lives
- Research
- Implementation
- Evaluation

Bringing people and organizations together to work toward common goals.

Guiding institutions toward sustainable partnerships, enhanced resources, and increased capacity.

Turning research into real-world impact that improves African lives and livelihoods.

PRIORITY AREAS
- Agri-food Systems
- Water, Energy, & the Environment
- Youth Employment
- Education
- Cultural Heritage Preservation
- Health & Nutrition
AAP Illustrative Activities

1. AAP Launch event in July 2017
2. 2017 AAP Grantee teams—15 partnership teams funded
3. AAP Portal
   (Networking Tool, Resource Hub, and Workspace Commons)
4. Participation in the Year of Global Africa Launch and the Vice Chancellor’s Forum, Nov. 4-8, 2017
Forming New Ecosystems for Work

• Re-examining the nature and practice of partnership
  o Mutually beneficial
  o Flexible, changing with different contexts and scales
  o Cultivated with intention and allowing space for self-reflection
  o Focused on real solutions and impact
African Vice-Chancellor Forum
November 4-8, 2017

Please join us as we welcome high-level African university leaders to MSU to explore a vision for partnerships in higher education that will impact the future of Africa.

Conversation on Partnerships in Higher Education
Nov 6 • 8:30 am • Breslin Center Mezzanine
During this interactive session moderated by MSU Provost June Youatt, leaders from MSU and eight African universities will share the challenges and opportunities for partnerships in higher education and the potential opportunities for impact through cooperation.

Cocktail Reception
Nov 6 • 7 pm • Breslin Center Concourse

Private Sector Forum
Nov 7 • 8:30 am • Breslin Center Mezzanine
Moderated by Robert Telchin of the U.S. Department of Commerce, this forum will focus on partnership amongst U.S. and African private sector actors, African Universities and MSU leadership towards enhancing investment with positive impact for Africa’s future.

Alliance for African Partnership
MICHIGAN STATE UNIVERSITY
Barb Kranz

STEM Teaching and Learning Building
STEM Teaching and Learning Building Program and Planning Update
October 9, 2017
Background

• MSU Board of Trustees at its October 2015 meeting authorized planning for “Strategic Academic Development Initiative – STEM Teaching and Learning and Interdisciplinary Research Facilities.”

• Submitted STEM Teaching and Learning Building to State of Michigan in 2016 and 2017 for partial funding. Building will be approx. 120,000 gross square feet; budget of $72.5M ($29.9M State of Michigan Capital Outlay).

• Part of strategic framework to continue investments that support student success, add value, and align with state and national priorities to graduate more students in STEM and STEM-related fields.

• July 2017 Governor signed bill PA 107 ‘17 that provided a planning authorization to MSU for the STEM building.
Background

• 2016: Faculty focus groups were convened, focusing primarily on the future of curriculum and pedagogy. Key drivers that inform and guide the development of the program and eventual design of the building.

• 2017: Sasaki and Associates hired to assist MSU in developing the program plan for the building. Over the last five months the Steering Committee and over 30 faculty have been engaged in focus groups and follow-up discussions. Key to creating a building program and design that will be responsive to the goals and objectives of the building.

• Steering Committee is comprised of representatives from the Colleges of Engineering and Natural Science; Associate Provost Teaching, Learning and Technology; Facilities Planning and Space Management; and Infrastructure Planning and Facilities.

• Faculty Focus Groups include representatives from the Biological Sciences, Physical Sciences, Chemistry, Materials Science, and Computer Science.
Program Goals and Objectives

- Modern, active learning labs that support team-based and experiential learning and advances in STEM pedagogy.

- Building that is student focused, will excite and contribute to their overall success; and serves to attract and retain students and faculty in STEM.

- Flexible and durable design to serve multiple purposes and a range of experiences; supports centralization and improved operations that support STEM instruction.

- Flexibility to anticipate and adapt to changes in technology, pedagogy, and content delivery; and increases visibility of STEM education, learning on display.
Building Program

- Learning laboratory space of approximately 120,000 GSF.
- Learning laboratory areas of emphasis include the Biological Sciences, Chemistry, Computer Science, Materials Science & Engineering, and Physics. Emphasis on gateway 100- and 200-level courses.
- Modular, flexible, and collaborative student learning laboratories designed to support studio learning that merges lecture/lab and facilitates active learning in a team-based and peer-peer model (2-6 students).
- Informal collaborative and study areas, team and project space, shared prep spaces, help center, and hoteling/staff work space.
Schedule

- October 2017 – January 2018: Finalize Program and complete Schematic Design process

- January 19, 2018: Required Program and Schematic Design submittal to the State of Michigan Department of Technology, Management and Budget (DTMB). Deadline necessary to align with the SFY19 Appropriation cycle – February – June 2018

- January – August 2018: Continue with the planning and design process including necessary reviews and approvals with the State of Michigan and MSU Board of Trustees

- August/September 2018: Construction anticipated to begin

- Fall Semester 2020: Anticipated Opening
Mark Largent

Undergraduate Credit Momentum

and

Course Scheduling
Relationship Between First-Year Credit Loads and Six-Year Graduation Rates

- 74% for < 15 Fall & Spring
- 81% for 15+ Fall Only
- 86% for 15+ Spring Only
- 88% for 15+ Fall & Spring
Relationship Between First-Year Credit Loads and Six-Year Graduation Rates

- < 15 Fall & Spring: 74%
- 15+ Fall Only: 81%
- 15+ Spring Only: 86%
- 15+ Fall & Spring: 88%
START STRONG.
END STRONGER.
Have the completion conversation with your advisor.

GO GREEN
GO 15
Percent of First-Year Students Who Enrolled in 15+ Credits in Their First Fall Semesters

- 2000: 44%
- 2001: 44%
- 2002: 42%
- 2003: 40%
- 2004: 35%
- 2005: 30%
- 2006: 25%
- 2007: 20%
- 2008: 15%
- 2009: 10%
- 2010: 5%
- 2011: 0%
- 2012: 5%
- 2013: 10%
- 2014: 15%
- 2015: 20%
- 2016: 25%
- 2017: 30%

50.3% Increase

28%
Course Distribution by Total Number of Section Capacity, Organized by Date and Begin Time Group

Please note that the recommended citation is as follows:
11% of Class Meetings Occur on Fridays
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72% of Seats are in Classes that Start between 10:20 am and 3:00 pm

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<td>8 PM - 9:50</td>
<td>5:00 - 7:50</td>
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<td>6:30 - 7:20</td>
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<td>7:10 - 10 PM</td>
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Trial MWF 4-Credit Course Schedule

70 Minutes

8:00 – 9:10
9:30 – 10:40
11:00 – 12:10
12:30 – 1:40
2:00 – 3:10
3:30 – 4:40

Scheduling in this pattern done by room, through colleges
Thomas Jeitschko

Graduate School Support of Efforts and Initiatives Across Campus
Who will Illuminate the Path Forward?

SPARTANS WILL.
Upcoming Activities that Support Priorities
<table>
<thead>
<tr>
<th>Provide support for faculty resulting in greater scholarly productivity and instructional effectiveness</th>
<th>Recruit and retain a diverse faculty</th>
<th>Create a more supportive work environment</th>
<th>Create a healthier campus community</th>
<th>Create a more positive campus climate</th>
<th>Continue to emphasize the University’s elevating expectations</th>
<th>Engage in planning that anticipates opportunities, demands, and resources</th>
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Upcoming Activities:
Creating a Healthier Campus Community

- Healthy Campus Initiative planning
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Upcoming Activities:
Engaging in Planning that Anticipates Opportunities, Demands, and Resources

- Science and engineering space planning
- Arts and culture planning
- Changed program review
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Upcoming Activities:
Creating Incentives that Support Innovation

- Digital learning strategy
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Upcoming Activities:
Engaging in Curriculum Reform that Changes the Nature and Shape of the Educational Experience

• Curriculum reform across campus
Elements of an Inclusive Academic Environment

- Classrooms that promote respectful but critical dialogue; places that work to manage the tension of protecting the safety of individuals and academic freedom
- Courses, curricula, programs, and research that explore disparate perspectives, frameworks, and narratives while maintaining the highest scholarly standards
- A campus where cultural differences are understood, respected, valued, and supported
- A campus where every student has an equal chance of academic success, and where the graduation gap between majority and minority students is evaporating
- A campus that recruits a diverse faculty and staff, and actively supports their scholarship and success
- A campus that is mindful that inclusion is an active condition, requiring daily attention
Expanded Efforts to Create Inclusive Classrooms

- What this means
- What we can do to support faculty in this effort
Table Discussion
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1. Given the need for training in how to handle challenging, potentially charged situations in the classroom or workplace, what could we provide centrally that would be most useful to you and your faculty/employees?

2. Given the need to create an environment that fosters respect and civility, what could we provide centrally that would be most useful to you in helping build that environment?

3. What should we NOT do? What might cause your faculty/employees to turn away?