

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

September 7, 2012

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

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

University officers present: President Simon, Provost Wilcox, Vice President Poston, Secretary Beekman, Vice President and General Counsel Noto, Vice Presidents Burnham, Groves, Hsu, and Swain, Interim Vice President Maybank, and Senior Advisor and Director Granberry Russell. Faculty liaisons present: William Anderson, Sue Carter, Deborah Moriarty, and John Powell. Student liaisons present: Stefan Fletcher, Kelcey Gapske, Martin Garcia, and Evan Martinak.

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

1. On a motion by Trustee Owen, supported by Trustee Foster, the **BOARD VOTED to approve** the agenda.
2. On a motion by Trustee Woodard, supported by Trustee Breslin, the **BOARD VOTED to approve** the minutes of the Board meeting of June 22, 2012.

On a motion by Trustee Foster, supported by Trustee Owen, the **BOARD VOTED to approve** the minutes of the Board meeting of July 23, 2012.

3. President's Report

President Simon provided the following report to the Board.

- A. DeMott Finalist for Microsoft BlueHat Prize

Jared DeMott, a Ph.D. candidate in Computer Science & Engineering, is one of the three finalists for Microsoft's \$200,000 BlueHat Prize. The inaugural contest challenges security researchers to design a novel runtime mitigation technology

designed to prevent the exploitation of memory and safety vulnerabilities.

B. Clay Selected for International Leadership Award

Daniel Clay was selected as one of two 2012 recipients of the Michael P. Malone International Leadership Award sponsored by the Association of Public and Land-Grant Universities. Clay, director of Global Programs in Sustainable Agri-food Systems and senior associate to the dean in the College of Agriculture and Natural Resources, has spent his entire career working to support global programs at the University.

C. 2012 DNP Mentoring Award

The APS Division of Nuclear Physics announced that the 2012 DNP Mentoring Award will be presented to MSU professor Michael R. Thoennessen. Thoennessen was selected to receive the award due to his dedication to attracting, nurturing, and mentoring young people in science.

D. National Athletic Trainers' Association Hall of Fame

John Powell and Sally Nogle, who teach in the Department of Kinesiology at MSU, were inducted into the National Athletic Trainers' Association Hall of Fame on June 28, 2012. The honor is reserved for athletic trainers whose long-standing careers represent the best of their profession. Nogle, currently associate head athletic trainer for MSU, became the first female athletic trainer to work for a Big Ten football team when she joined the MSU football program in the early 1980's. She is only the 12th woman to be admitted to the national Hall of Fame, which has more than 250 members. Powell is an associate professor of kinesiology and director of graduate programs in athletic training. He joined the faculty in 2000 and has been instrumental in developing the undergraduate athletic training program, now a separate major.

E. MSU Offers New Graduate Certification in Forest Carbon Science

A new graduate certification program at MSU will consider the effects of climate change and forest management. Beginning fall semester 2012, the MSU Department of Forestry will offer a graduate certificate in forest carbon science, policy, and management. The program will focus on the complex and emerging issues surrounding the use of forest management to mitigate global climate change.

F. Detroit MetroFoodPlus Stakeholders to Begin Planning

A group of community stakeholders will begin to work to plan an urban food systems innovation cluster in Detroit, following a recent memorandum of understanding approved by the City of Detroit and MSU. The program is intended to provide nutritious food access and economic opportunities to local residents while positioning the City as a world research center for urban food production.

G. Ian Gray Resolution

Trustee Foster presented a Board of Trustees resolution to Dr. Ian Gray honoring him for his service to MSU. (Appendix A)

President Simon acknowledged the significant impact of Dr. Gray's career to food safety and food science. She thanked Dr. Gray for his tremendous contributions to MSU.

4. There was no public participation on issues germane to the agenda.

5. Personnel Actions

Provost Wilcox presented the following personnel actions:

O'Rourke, Michael, AY—Professor, Department of Philosophy, \$92,000, with Tenure, effective August 16, 2012.

Daugherty, Patricia J, AY—Professor, Department of Supply Chain Management, \$235,000, with Tenure, effective August 16, 2012.

Nair, Anand, AY—Associate Professor, Department of Supply Chain Management, \$180,000, with Tenure, effective August 16, 2012.

Besley, John C, AY—Associate Professor and Ellis N Brandt Chair in Public Relations, Department of Advertising, Public Relations and Retailing, \$88,500, with Tenure, effective August 16, 2012.

Smith, Barbara A, AN—Professor, College of Nursing, \$195,000, with Tenure, effective September 1, 2012.

Hollis, Mark J., AN—Director of Intercollegiate Athletics, Subject to Contract, effective January 1, 2017 to June 30, 2017.

Izzo, Thomas, AN—Head Coach—Men's Basketball, Intercollegiate Athletics, Subject to Contract, effective July 1, 2018 to June 30, 2019.

Rakan, Susan M. (Suzy Merchant), AN—Head Coach—Women's Basketball, Intercollegiate Athletics, Subject to Contract, effective July 1, 2016 to June 30, 2017.

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

Provost Wilcox said that Professor O'Rourke has held faculty positions at Kansas State University and the University of Idaho and is an expert in the philosophy of language, interdisciplinary theory, and philosophy of action.

Provost Wilcox said that Professor Daugherty received her Ph.D. from MSU and has been at the University of Georgia and the University of Oklahoma and is an expert in logistical trends and customer service and satisfaction.

Provost Wilcox said that Professor Nair received his Ph.D. from MSU and has been at Auburn University and the University of South Carolina.

Provost Wilcox said that Professor Besley comes to MSU from the University of South Carolina.

Provost Wilcox said that Professor Smith has held faculty positions at Ohio State University, the University of Alabama, and the University of Maryland. She has expertise in exercise interventions and chronic illness in adults and children.

THE BOARD VOTED to approve the recommendations.

6. Gifts, Grants, and Contracts

It was recommended that the Board of Trustees approve the Gift, Grant and Contract Report for the period of June 5, 2012 through August 21, 2012. The report is a compilation of 724 Gifts, Grants and Contracts, and 72 Consignment/Non-Cash Gifts, with a total value of \$120,009,741.

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

THE BOARD VOTED to approve the recommendation.

Vice President Hsu introduced Dr. Phil Robertson, University Distinguished Professor of Ecosystem Science in the Department of Plant, Soil, and Microbial Sciences. Dr. Robertson made a presentation to the

Board on agricultural sustainability and nitrous oxide markets. (Appendix B)

7. Finance Committee

Trustee Breslin presented the Trustee Finance Committee Report and recommendations.

A. Fund Functioning as an Endowment—Department of Geological Sciences Endowment

It was recommended that the Board of Trustees establish a fund functioning as an endowment entitled Department of Geological Sciences Endowment.

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

THE BOARD VOTED to approve the recommendation.

Trustee Foster was not present for the vote.

B. Fund Functioning as an Endowment—Council of Graduate Students Fund in Support of Graduate Fellowships Endowment Conversion

It was recommended to the Board of Trustees that the endowment fund currently known as the Council of Graduate Students Endowment in Support of Graduate Fellowships (COGS Fellowship Endowment) be reconstituted as a fund functioning as an endowment entitled the Council of Graduate Students Fund in Support of Graduate Fellowships (COGS Fellowship FFE); and

It was recommended to the Board of Trustees that the COGS Fellowship FFE have a term of five years, which may be renewed for additional terms of five years at the request of the Vice President for Student Affairs and the Council of Graduate Students (COGS); and

It was recommended to the Board of Trustees that the purpose of the COGS Fellowship FFE be the purpose set forth in the document which was the basis for the establishment of the COGS Fellowship Endowment, provided that all students in graduate and professional programs at MSU shall be eligible for awards from the COGS Fellowship FFE, including, as long as they have lifelong or other student status at MSU, students in the MSU College of Law,

and that, at the request and direction of the College of Law, any COGS Fellowship FFE award made to a Law College student shall be credited to that student's account at the College of Law.

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

THE BOARD VOTED to approve the recommendation.

Trustee Foster was not present for the vote.

C. Long-Term Property Lease to the Capital Area Transportation Authority

It was recommended that the Board of Trustees approve granting a 50-year property lease for approximately nine acres to the Capital Area Transportation Authority (CATA) for \$1.00 per year for the purpose of constructing a multi-modal transportation station, with such other terms and conditions as may be acceptable to the Vice President for Finance and Operations and Treasurer.

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

THE BOARD VOTED to approve the recommendation.

D. Authorization to Plan—Duffy Daugherty Football Practice Field—Construct Filming Tower (footprint change)

It was recommended that the Board of Trustees authorize the Administration to plan for modifications that may result in a material change to the campus footprint for the project entitled Duffy Daugherty Football Practice Field—Construct Filming Tower.

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

THE BOARD VOTED to approve the recommendation.

E. Authorization to Plan—Spartan Stadium—North End Zone Addition

It was recommended that the Board of Trustees authorize the Administration to plan for the project entitled Spartan Stadium—North End Zone Addition.

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

THE BOARD VOTED to approve the recommendation.

- F. Project Approval—Authorization to Proceed—Music Building—
Replace Electrical Substation

It was recommended that the Board of Trustees authorize the Administration to proceed with the project entitled Music Building—
Replace Electrical Substation, and to approve a budget of \$2,500,000.

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

THE BOARD VOTED to approve the recommendation.

- G. Project Approval—Authorization to Proceed—Butterfield Hall--
Renovation

It was recommended that the Board of Trustees authorize the Administration to proceed with the project entitled Butterfield Hall—
Renovation, and to approve a budget of \$16,000,000.

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

THE BOARD VOTED to approve the recommendation.

- H. Project Approval—Authorization to Proceed—Plant Biology—North
Wing Lab Exhaust System Replacement

It was recommended that the Board of Trustees authorize the Administration to proceed with the project entitled Plant Biology—
North Wing Lab Exhaust System Replacement, and to approve a budget of \$1,500,000.

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

THE BOARD VOTED to approve the recommendation.

- I. Project Approval—Authorization to Proceed—Facility for Rare
Isotope Beams—Building Structure

It was recommended that the Board of Trustees authorize the Administration to proceed with the project entitled Facility for Rare Isotope Beams—Building Structure, and to approve a budget of \$55,000,000.

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

THE BOARD VOTED to approve the recommendation.

J. Project Approval—Authorization to Proceed—College of Music's Community Music School--Renovations

It was recommended that the Board of Trustees authorize the Administration to proceed with the project entitled College of Music's Community Music School—Renovations, and to approve a budget of \$1,500,000.

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

THE BOARD VOTED to approve the recommendation.

8. Policy Committee

Trustee Byrum presented the Trustee Policy Committee Report and recommendations.

A. Revision to Bylaws for Academic Governance for Review by the MSU Board of Trustees

It was recommended that the Board of Trustees approve the revised Bylaws for Academic Governance, as approved by University Council on April 24, 2012, with changes to be effective Spring Semester 2013. (Appendix C)

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

THE BOARD VOTED to approve the recommendation.

B. Approval of Contract Terms:

It was recommended that the Board of Trustees approve the execution of a research contract with *Technova* Corporation, consistent with earlier public notice given at a Board meeting and

with the "Research Contract Term Sheet" presented to the Board for inclusion in its minutes. (Appendix D)

It was recommended that the Board of Trustees approve the execution of a research contract with *InPore Technologies, Inc.*, consistent with earlier public notice given at a Board meeting and with the "Research Contract Term Sheet" presented to the Board for inclusion in its minutes. (Appendix E)

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

THE BOARD VOTED to approve the recommendations.

C. Notice of Intent to Negotiate a Contract with *Piezonix, LLC*

Public notice was given of the University's intent to negotiate contracts with *Piezonix, LLC*, a limited liability company to be based in Michigan.

Dr. Dhantanu Chakrabarty, an Associate Professor in the Department of Electrical and Computer Engineering, and his family will own or have options to buy an ownership interest of more than one percent of the company. Dr. Chakrabarty will also be a partner in *Piezonix, LLC*.

D. Opening of the School Year

Provost Wilcox presented the Preliminary Enrollment Report. (Appendix F)

9. Audit Committee

Trustee Perles said that the Audit Committee received an overview of Internal Audit Office functions and a review of the audit plan for the coming year that the Committee received in June. Internal Audit Director Tom Luccock reviewed the areas of risk for the University and the areas of emphasis for the audit this year. He also reviewed an update of the Internal Audit Charter and recommended two minor additions. Trustee Perles reported that the Committee was pleased to see that the Internal Audit Charter complies with the current standards for the professional practice of internal auditing issued by the Institute of Internal Auditors.

Trustee Perles stated that the Committee also reviewed the Athletic Department's compliance with NCAA rules. Athletic Director Mark Hollis continues to expect an athletic program with a strong compliance

environment. The athletics compliance unit is led by Associate Athletic Director Jennifer Smith. Her position not only reports to the Athletic Director, but is further strengthened by the compliance unit's ability to report directly to the General Counsel. Trustee Perles concluded that the athletic compliance unit leads with a strong proactive and educational approach.

10. Trustees Comments

Trustee Ferguson said that he was impressed with the opening of the school year activities and thanked Team MSU for the continued hard work.

Trustee Owen thanked Dr. Gray for his service to MSU. She asked faculty liaison Deborah Moriarty to speak on behalf of the College of Music.

Dr. Moriarty thanked the Board of Trustees and Administration for its support of the College of Music and the Community Music School. She noted that the Community Music School has a positive impact not only on MSU, but the broader community as well.

Trustee Lyons said that he was pleased with the opening of school report, in particular, the new student orientation process. He thanked Dr. Gray for his service to MSU.

Trustee Breslin thanked Dr. Gray for his contributions to MSU.

Trustee Byrum thanked Dr. Gray for his friendship and dedication to MSU.

Trustee Woodard wished Dr. Gray well and thanked him for his work on behalf of MSU.

Trustee Perles congratulated Dr. Gray on his retirement.

Trustee Foster said that she was encouraged by the fact that MSU continues to lead the Big Ten in enrollment of in state first-year students. She said that as the first land grant university, MSU needed to encourage the young people of Michigan to attend MSU.

11. There was no Public Participation on Other Issues

12. Request to Adjourn

On a motion by Trustee Ferguson, supported by Trustee Foster, **THE BOARD VOTED to adjourn** at 11:35 a.m.

Respectfully submitted,



William R. Beekman
Secretary of the Board of Trustees

RESOLUTION
HONORING J. IAN GRAY
 Michigan State University Board of Trustees
 September 7, 2012

The Board of Trustees of Michigan State University today extends to J. Ian Gray its deep gratitude and appreciation for service to his university.

Dr. Gray joined Michigan State University in 1978, when he was appointed an associate professor of food science and human nutrition. Working his way up the academic ladder, he became associate director of what was then known as the Michigan Agricultural Experiment Station in 1988. He was appointed director in 1996.

A nationally known leader in his field, Dr. Gray's research expertise focused on the formation of toxic compounds during food processing and cooking. His research has contributed to a large body of work that has led to safer, healthier foods around the world.

In 2004 Dr. Gray became MSU's vice president for research and graduate studies. Under his thoughtful leadership, MSU saw critically important federal research support nearly double, and, for the first time ever, this year MSU reached the half-billion-dollar mark in total funding. Dr. Gray stepped down from his vice presidential role in August 2012; leaving the role when the University's research portfolio was the largest and most extensive in its 157 year history.

His strategic vision in developing MSU's research excellence resulted in world-class infrastructure improvements and a series of faculty hires clustered around MSU's strengths in complex materials, global water issues, neurodegenerative diseases, plant science, and reproductive health.


He also spearheaded the formation of MSU's Innovation Center, leveraging the economic potential of MSU Technologies for commercialization of MSU research ideas, MSU Business-CONNECT for engaging companies in MSU research projects, and Spartan Innovations for developing sustainable MSU spin-offs.

A native of Northern Ireland, Dr. Gray received his doctoral degree from Queen's University in Belfast. He conducted his post-doctoral research at MSU.

For his leadership and extraordinary efforts advocating the world-class research conducted by MSU faculty, the Board of Trustees extends its heartfelt thanks and sincere gratitude to Dr. J. Ian Gray.

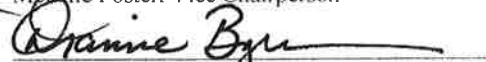

 Joel Ferguson, Chairman



 Brian Breslin



 Mitch Lyons


 George Perles


 Melanie Foster, Vice Chairperson


 Dianne Byrum


 Faylene Owen


 Diann Woodard

**RESEARCH
PRESENTATION
TO THE MSU BOARD OF TRUSTEES**

SEPTEMBER 7, 2012

PHIL ROBERTSON

**COLLEGE OF AGRICULTURE &
NATURAL RESOURCES**

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

Phil Robertson is University Distinguished Professor of Ecosystem Science in the Dept. of Plant, Soil and Microbial Sciences (formerly Crop and Soil Sciences). He is also a member of the resident faculty at the Kellogg Biological Station near Kalamazoo, where he has been based since the mid-1980's. Since 1988 he has directed the NSF Long-Term Ecological Research (LTER) Program in Agricultural Ecology at KBS, and more recently has directed sustainability research in the Great Lakes Bioenergy Research Center. His research interests include the biogeochemistry and ecology of field crop ecosystems, including biofuel systems, and in particular nitrogen and carbon dynamics, greenhouse gas fluxes, and the influence of climate change in these systems. He received his Ph.D. in Ecology and Evolutionary Biology in 1980 from Indiana University and his B.A. in 1976 from Hampshire College in Amherst, Massachusetts. Before coming to MSU he was a postdoctoral fellow at the Royal Swedish Academy of Sciences in Stockholm. He is a Fellow of the Soil Science Society of America and has served on a number of national and international advisory boards and committees for NSF, USDA, EPA, DOE, and the National Research Council, among others. And in fact is headed to Beijing tomorrow at the invitation of the Chinese Academy of Sciences.

Agricultural Sustainability and Nitrous Oxide (N₂O) Markets

How Long-Term Ecological Research Informs Sustainability Science and Action

Board of Trustees Meeting, September 7, 2012

Phil Robertson

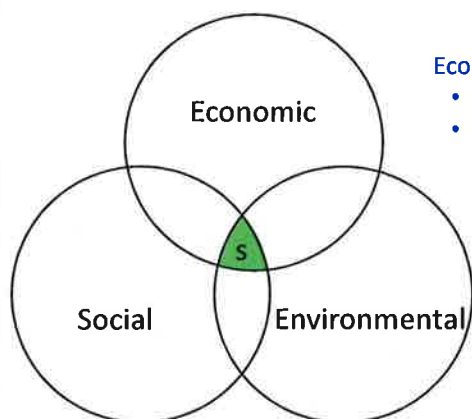
University Distinguished Professor
Dept. of Plant, Soil, and Microbial Sciences
and W.K. Kellogg Biological Station
Michigan State University

robertson@kbs.msu.edu



Interacting Dimensions of Sustainability for Agriculture

Adoption of sustainable agricultural practices require



Economic incentives for producers

- Profitability
- Economic well-being

Social benefit for public

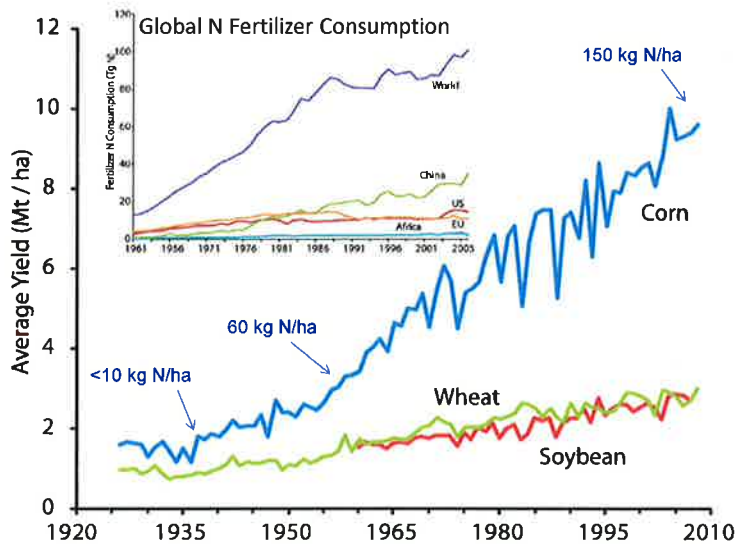
- Food and energy security
- Rural community health
- Human health & nutrition

Environmental benefit to mitigate burdens

- Pollution abatement
- Biodiversity benefits
- Climate security



U.S. Average Yields for Major Grain Crops from 1930



From USDA ERS (2011), FAO (2011), Robertson & Vitousek 2009 Ann. Rev.

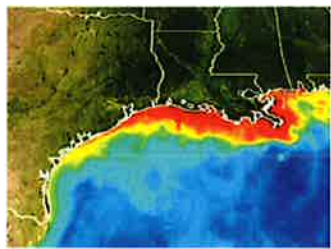
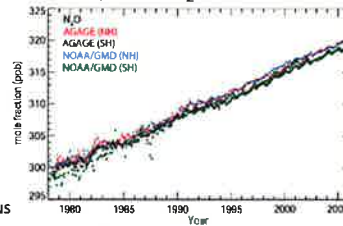


Environmental Signals of Agricultural Intensification



Inland Phosphorus

Atmospheric N_2O from 1976



Coastal Nitrate



Biodiversity loss



MSU-EPRI N₂O Reduction Protocol for Carbon Credits



Partner Utilities (via Electric Power Research Institute)

- American Electric Power
- Detroit Edison Co.
- Duke Energy
- Hoosier Energy Rural Electric Coop
- Oglethorpe Power Corporation
- PNM Resources Inc.
- Salt River Project
- Southern California Edison
- Tri-State Generation and Transmission Coop

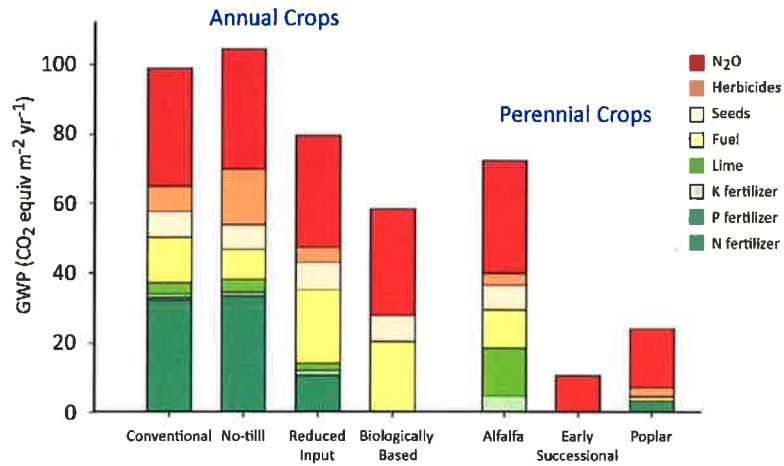


KBS Long-Term Ecological Research (LTER) Site

Ecosystem Type	Management Intensity
Annual Grain Crops (Corn - Soybean - Wheat)	High ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ Low
Conventional tillage	
No-till	
Low-input with legume cover	
Organic with legume cover	
Perennial Biomass Crops	
Alfalfa	
Hybrid poplars	
Unmanaged Communities	
Early successional old field	
Mid successional old field	
Late successional forest	



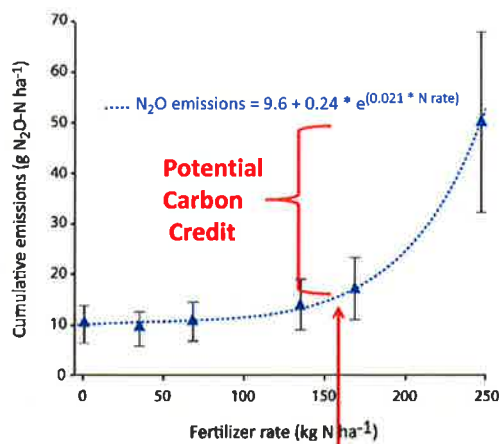
Sources of Global Warming Impacts in KBS Cropping Systems (1992-2010)



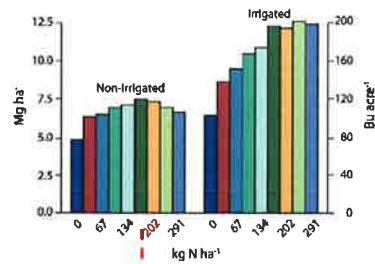
Gelfand et al. in prep.



N₂O fluxes across different fertilizer rates



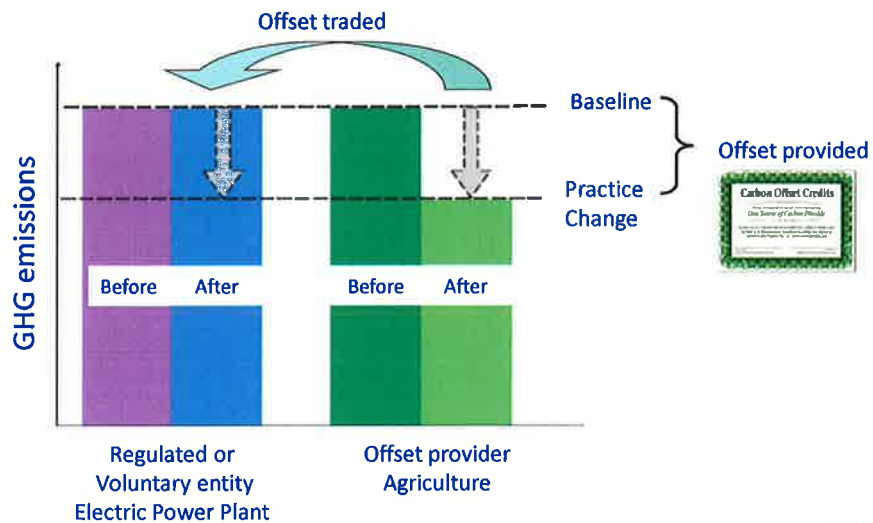
- Emissions factors vary with N-rate – especially above crop optimum



Miller et al., submitted



Carbon Trading and Offsets



Conclusions

1. Experiment in progress – no guarantees that will pay off
 - Farmers' willingness to participate
 - Price of carbon (market now voluntary, soon to be compliance)
 - Cost of better fertilizer management
2. Potentially a triple-win:
 - For electric industry – more available credits means lower costs
 - For farmers – payments to manage fertilizer more precisely, which has information and technology costs
 - For the environment – abates N_2O as a climate change gas without affecting food security, and also provides co-benefits for other types of reactive nitrogen – e.g. nitrates
3. Requires long-term fundamental research and opportunity to engage industry



MICHIGAN STATE UNIVERSITY



KBS LTER
Kalamazoo Biology Station
Michigan State University

Proposed Changes in Bylaws for Academic Governance

Current Language with Proposed Amendments

~~4.4. UNIVERSITY COMMITTEE ON UNDERGRADUATE STUDIES 4-6~~
 4.4. UNIVERSITY COMMITTEE ON UNDERGRADUATE EDUCATION..... 4-6

3.3.6.2. ~~The University Committee on Undergraduate Studies (UCUS)~~ The University Committee on Undergraduate Education will report to the University Council, provided that on issues of establishment, moratorium, discontinuance, and merger of programs, the University Council and the Faculty Senate will be informed of UCUS's consultation with the Provost.

4.1.1. There shall be the following University-level Standing Committees within Academic Governance:

- University Committee on Academic Governance
- ~~University Committee on Undergraduate Studies~~
- University Committee on Undergraduate Education
- University Committee on Curriculum
- University Committee on Faculty Affairs
- University Committee on Faculty Tenure
- University Committee on Graduate Studies
- University Committee on Student Affairs

4.4. ~~UNIVERSITY COMMITTEE ON UNDERGRADUATE STUDIES~~
 UNIVERSITY COMMITTEE ON UNDERGRADUATE EDUCATION

4.4.1. The membership of the ~~University Committee on Undergraduate Studies (UCUS)~~ University Committee on Undergraduate Education (UCUE) shall include a faculty member from each college, and a faculty member from the non-college faculty. ~~UCUS~~ (UCUE) shall also have four undergraduate student members, of whom one must be the Vice Chairperson of Academic Affairs of ASMSU, and two graduate student members from COGS. The Provost or the Provost's designee shall be a member with voice, but no vote.

4.4.1.1. The ~~University Committee on Undergraduate Studies~~ University Committee on Undergraduate Education shall report to the University Council (3.2.6.).

4.4.1.2. Each year the ~~University Committee on Undergraduate Studies~~ University Committee on Undergraduate Education 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 ~~University Committee on Undergraduate Studies~~ University Committee on Undergraduate Education will serve on The Steering Committee and thus on the University Council and the Faculty Senate.

- 4.4.3. The ~~University Committee on Undergraduate Studies~~ University Committee on Undergraduate Education 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 ~~University Committee on Undergraduate Studies~~ University Committee on Undergraduate Education 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 ~~University Committee on Undergraduate Studies~~ University Committee on Undergraduate Education 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 ~~UCUS's~~ UCUE's consultation with the Provost.
- 4.4.6. The ~~University Committee on Undergraduate Studies~~ University Committee on Undergraduate Education 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 ~~University Committee on Undergraduate Studies~~ University Committee on Undergraduate Education 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 ~~University Committee on Undergraduate Studies~~ University Committee on Undergraduate Education shall coordinate its activities with those of other committees, as appropriate.

Final Language with Proposed Amendments Incorporated

4.4. UNIVERSITY COMMITTEE ON UNDERGRADUATE EDUCATION..... 4-6

3.3.6.2. The University Committee on Undergraduate Education will report to the University Council, provided that on issues of establishment, moratorium, discontinuance, and merger of programs, the University Council and the Faculty Senate will be informed of UCUS's consultation with the Provost.

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- University Committee on Academic Governance
- University Committee on Undergraduate Education
- University Committee on Curriculum
- University Committee on Faculty Affairs
- University Committee on Faculty Tenure
- University Committee on Graduate Studies
- University Committee on Student Affairs

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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 University Committee on Undergraduate Education 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 University Committee on Undergraduate Education 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 University Committee on Undergraduate Education shall coordinate its activities with those of other committees, as appropriate.

RESEARCH CONTRACT TERM SHEET

Party: Technova Corporation

Contracts: Sponsored research agreement
“Characterization of Pressure-Sensitive Adhesives”

Term: September 10, 2012 to September 9, 2020

Payment Terms: MSU contract eight year total: \$25,000.

Services Provided: By MSU to Technova: testing and evaluation of adhesive materials for stability under temperature and chemicals

By Technova to MSU: none

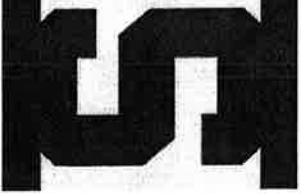
Use of University Facilities/Personnel:
Use of MSU facilities/personnel by Technova provided at prevailing rates for industrial research.

Organization Type: Incorporated Michigan-based small business.

Personnel Interest: Dr. Parviz Soroushian, a Professor in the Department of Civil and Environmental Engineering, and his family own or have options to buy an ownership interest of more than 1% of the company. Dr. Soroushian is also the president of Technova Corporation.

RESEARCH CONTRACT TERM SHEET

- Party:** InPore Technologies, Inc.
- Contracts:** Sponsored research agreement
“Polymer Mesocomposites: Novel Materials for
Compaction-Resistant, High-Flux Water Treatment
Membranes”
- Term:** July 1, 2012 to December 31, 2012
- Payment Terms:** \$45,000
- Services Provided:** By MSU to InPore Technologies: developing novel high
flux, compaction-resistant and durable polymer
mesocomposite membranes for sustainable drinking water
purification and water reuse
- By InPore Technologies to MSU: None contemplated
under agreement
- Use of University Facilities/Personnel:**
Use of MSU facilities/personnel by InPore Technologies
provided at prevailing rates for industrial research.
- Organization Type:** Incorporated Michigan-based small business.
- Personnel Interest:** Dr. Thomas J. Pinnavaia, a Professor in the Department of
Chemistry, and his immediate family own or have an
option to buy an equity interest of more than 1% of the
company. Dr. Pinnavaia is also an officer of InPore
Technologies, Inc.



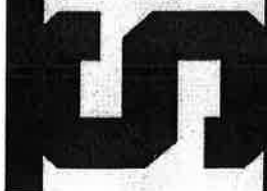
Board of Trustees

Preliminary Enrollment Report 09/07/12

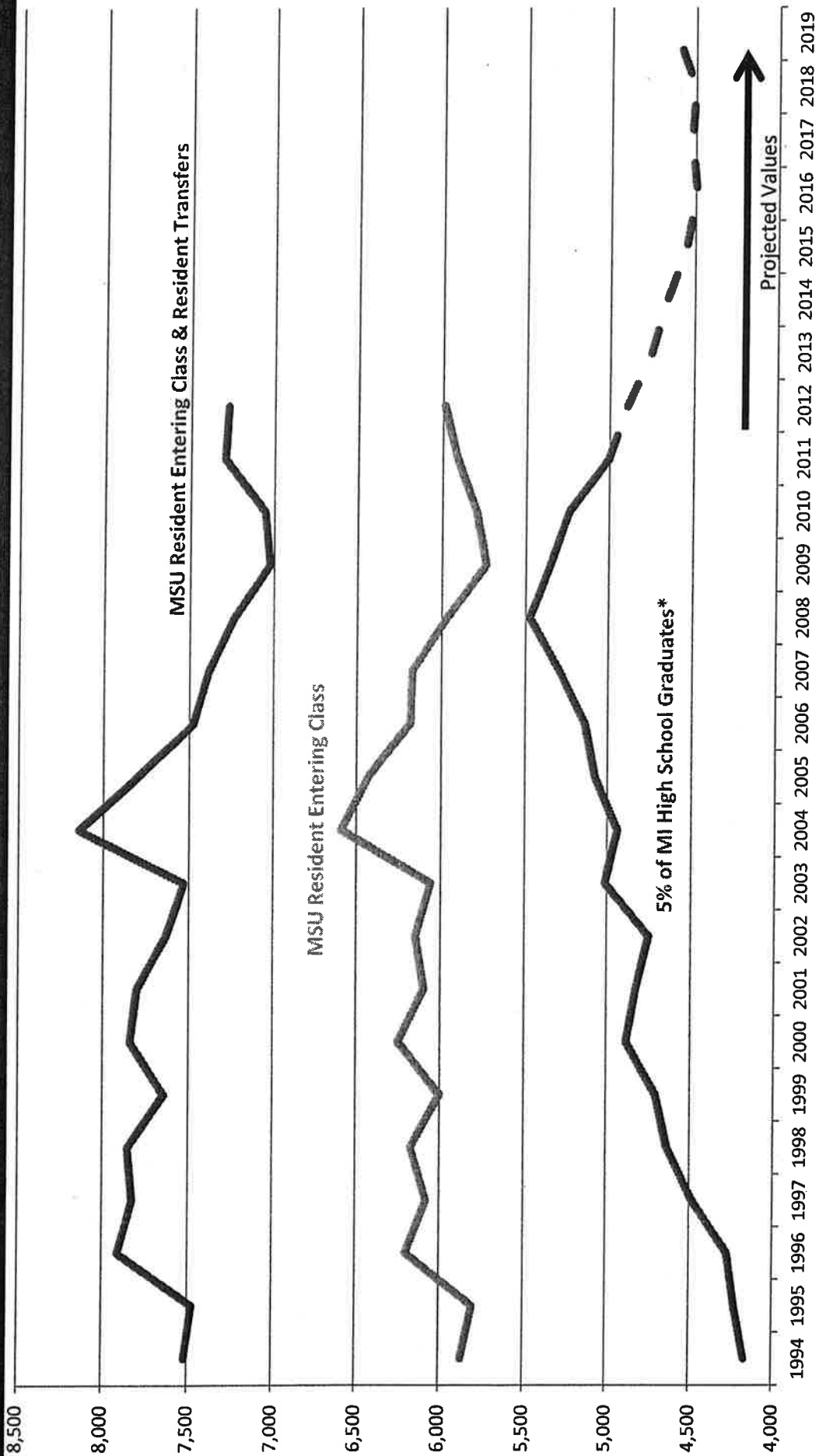


Enrollment Context

- MSU enrollment information preliminary at this time, formal count taken at quarter of semester – September 24, 2012
- Rolling undergraduate process begins each fall for subsequent year admission
- Graduate admission determined at college and department level, coordinated by Graduate School
- Environmental – policy considerations include:
 - Declining number of MI high school graduates
 - Proportion of graduates meeting admissions requirements
 - Reflection of state population
 - Mix of non-resident and international students

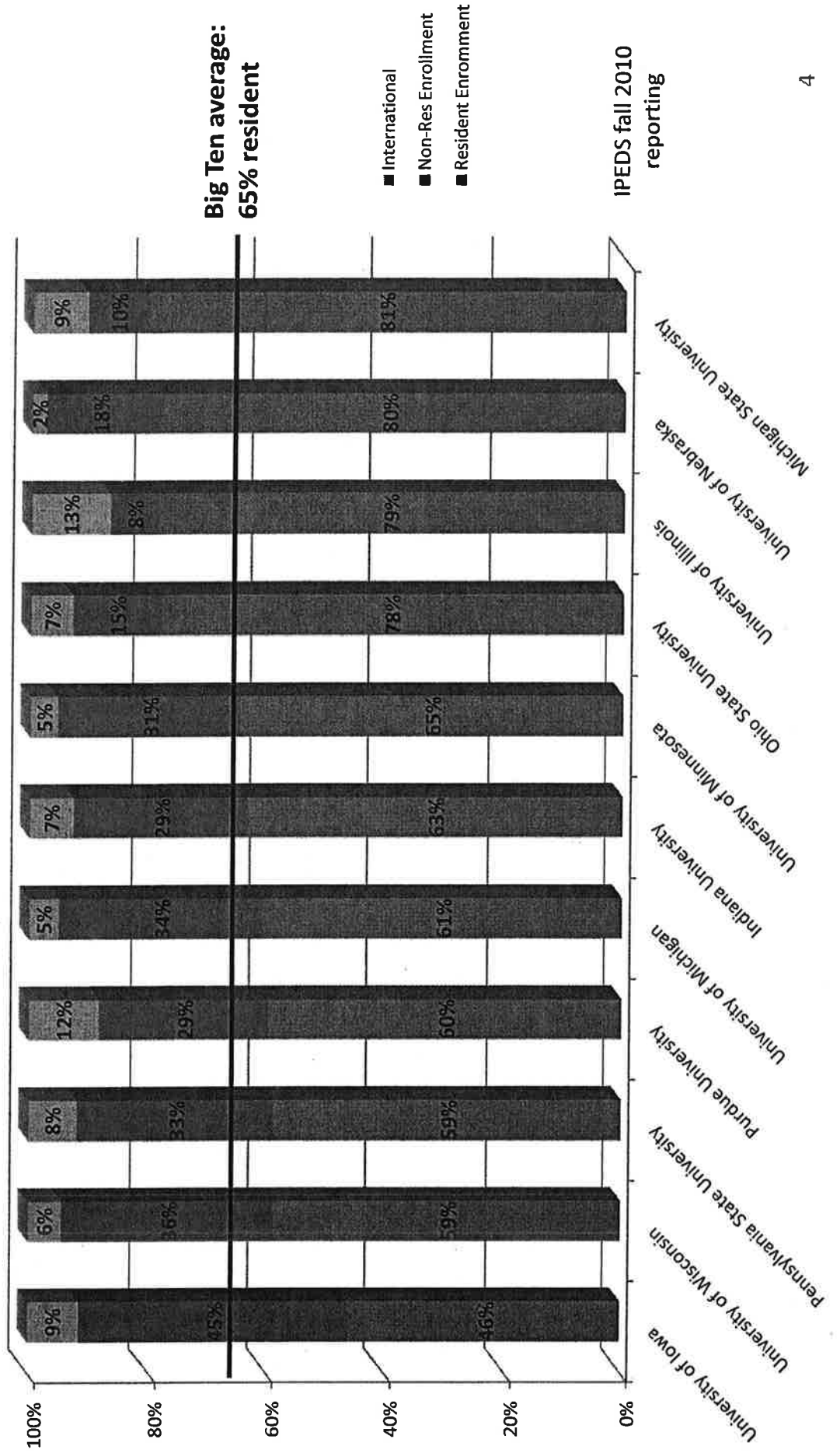


Resident First-Time Enrollment





Big Ten Entering Undergraduate Enrollment by Residency





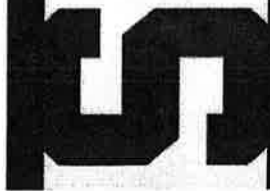
Enrollment Highlights

- 2012-13 enrollment anticipated at 48,800, plus or minus 100 students
- Represents a 1.7 percent increase over prior year's total of 47,954
- Enrollment figures preliminary at this time, official counts available September 24, 2012

- Strong demand for MSU: Over 30,300, first time class approximates 8,100
- First time class consistent with broader state trends
- Student Preparation Improving: GPA and average ACT scores represent slight improvement over previous year

- Michigan first: 75 percent of the 9,650 entering and transfer students from Michigan
 - 80 percent of total undergraduate enrollment of 37,450 are Michigan residents

- MSU's resident entering class and transfers: 7,279
 - Accounts for 7.4% of state high school graduations
 - Represents 20.3% of high school graduates with ACT scores in MSU's primary range



Enrollment Highlights

- Diversity: Entering class includes 1,355 students of color, 20 percent of the total domestic entering class
 - 7,900 total students of color, approximately 18.7 percent of the total domestic student body
- Total graduate and graduate professional enrollment: 11,350
 - 1,795 new master's and doctoral students
 - 620 new graduate professional students