



College of Natural and Applied Sciences



All College Meeting

Dr. Tammy Jahnke, Dean

August 24, 2016

Missouri State
UNIVERSITY

Missouri State University

MISSION

- Missouri State University is a comprehensive institution offering undergraduate and graduate programs, including the professional doctorate. The university educates students to be global citizen scholars committed to public affairs.

VISION

- Missouri State University will be the university of choice to develop successful students who excel academically and in ethical leadership, cultural competence and community engagement.

VALUES - We value:

- A **student-centered learning environment** and **excellent teaching** that promote and support academic success and personal development.
- The generation, discovery, dissemination and preservation of **knowledge** developed through **research** and **creative activity**.
- Personal and academic **integrity** in all our endeavors.
- **Inclusiveness**, fairness, equity and social justice; the recognition that each person possesses not just one, but multiple identities; and the celebration of the similarities, as well as the differences, of our diverse campus.
- **Our people** and their ability to foster an **environment of respect** for all individuals within a climate of civility, trust and collaboration.
- **Continuous improvement** in our programs, policies and procedures.
- **Innovation** and promotion of the **entrepreneurial spirit** in all aspects of university life.
- **Collaboration**, both internally and externally, to promote meaningful **partnerships** that further the university's goals.
- **Pride in**, and **celebration of**, the achievements of the university and campus community, past and present.
- **Responsible and transparent stewardship** of the university's and community's resources for a sustainable future.

Six areas with vision, strategic priorities and university goals:

- Academic Profile
- Student Experience
- Diversity and Inclusion
- Globalization
- Infrastructure
- Funding

Two areas of focus as we begin to tackle this long range plan:

- Increase the number of graduates
- Diversity and Inclusion

Missouri State University Long-Range Plan/Annual Goals

- Long Range Plan 2011-2016
- Annual Goals for 2016-2017

State Funding Performance Measures

Student Success and Progress

- Freshman completing 24 credit hours his/her first academic year.

Increased Degree Attainment

- Six-year graduation rate

Quality of Student Learning

- Professional/occupational licensure exams

Financial Responsibility and Efficiency

- Percent of total education and general expenditures on core mission

Students Graduating in STEM, Health Care and other critical disciplines needed for Missouri's workforce

- Number of graduates

Graduate Placement of Undergraduate Students

- Percent of undergraduate students in jobs or continuing to graduate/professional school

CNAS Mission/Vision

Current

Mission: The College of Natural and Applied Sciences develops educated persons who, upon graduation, are prepared to make sound decisions relative to the natural and applied sciences and society and to be productive and successful in their careers – our commitment to public affairs. We are committed to excellence in teaching, research and scholarly activities, and community and professional service.

Vision: The College of Natural and Applied Sciences at Missouri State University seeks to be recognized regionally and nationally for teaching, scholarly productivity, professional community service, and our outstanding students and alumni.

Proposed

Mission: The College of Natural and Applied Sciences develops global citizen scholars who are prepared to increase understanding of the natural world and applied sciences within society and to be productive and successful in their career.

Vision: The College of Natural and Applied Sciences at Missouri State University seeks excellence in teaching, scholarly productivity, and professional and community service.

CNAS Shared Values

We value (current)

- our students and their success;
- hands-on learning (applied and practical);
- academic rigor and critical thinking;
- faculty, staff and administrators;
- excellence in teaching, research and service;
- ethical behavior;
- our research endeavors;
- our community, alumni and friends; and
- continuous improvement.

We value (proposed)

- our students and their success;
- active learning, academic rigor and critical thinking;
- excellence in teaching, research and service;
- inclusiveness, fairness and justice;
- faculty, staff and administrators;
- personal and academic integrity;
- safe learning environments;
- collaborations and partnerships; and
- continuous improvement

Data to make you think! (2007 cohort data)

- MSU's six year graduation rate for all first time freshman is 55%.
- MSU's six year graduation rate for Pell Eligible first time freshman is 48%.
- MSU's six year graduate rate for first generation first time freshman is 47%.
- MSU's six year graduation rate for Hispanic/Latino students or students who are two or more races who are first time freshman is 46%
- MSU's six year graduation rate for African-American students who are first time freshman is 35%.
- 30% of CNAS faculty are diverse and yet only 17% of the students in CNAS are diverse.

More Data!

Masters Degree Programs in CNAS

Department	# of students/year 2008-2015 (average)	# of graduates/year 2008-2015 (average)
BIO	35-45 (39)	10-24 (17)
CHM	15-23 (19)	2-12 (6)
GGP	19-38 (28)	4-13 (8)
PAMS	11-21 (15)	2-10 (6)
MTH	17-25 (21)	1-9 (5)
MNAS	15-27 (20)	4-12 (7)
MSED	4-13 (8)	0-4 (2)

CNAS Graduates - range from 2012-2016 (average)

Departments	BS/BA/BSED/BAS Graduates	Certificate Completions	MS Graduates (includes MNAS and MSED)
BIO	94-122 (108)		17-24 (20)
CHM	17-30 (25)		4-12 (8)
CSC	18-36 (26)		1-4 (2)
GGP	47-63 (55)	UG 12-14 (13) GRAD 1-8 (5)	7-16 (10)
HRA	55-92 (67)		
MTH	28-34 (31)		8-13 (10)
PAMS	8-13 (10)		5-11 (7)

Alignment of Goals

College and Departmental Goals all fall under the six areas:

- Academic Profile
- Student Experience
- Diversity and Inclusion
- Globalization
- Infrastructure
- Funding



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CNAS New Faculty

(tenure-track)

- ❖ BIO – Debra Finn, PhD Colorado State University (joining in 2017)
- ❖ BIO – LaToya Kisson-Charles, PhD North Dakota State University
- ❖ CSC – Tony Clark, PhD Michigan State University
- ❖ ELEC EGR – Tayo Obafemi-Ajayi, PhD Illinois Institute of Technology
- ❖ GGP – Matt McKay, PhD West Virginia University
- ❖ PAMS – Evan Frodermann, PhD Ohio State University



CNAS New Faculty

- ❖ MTH – Joann Barnett, Instructor
- ❖ CHM – Galen Eakins, Visiting Assistant Professor

CNAS New Staff

- BIO – Rachel Rigby, Administrative Assistant
- BIO – Joni Durden, Administrative Assistant
- BIO – Katie Frederick-Hudson, Microbiology Lab Coordinator
- CHM / PAMS – Marla Fritz, Administrative Assistant
- MTH – Sherry Jones, Administrative Assistant
- CNAS – David Szepatowski, Administrative Assistant
- CNAS – Craig Baird, Electronic Support Services
- CRPM (GGP) – Jason Ray, Planner
- EGR – Matthew Pulliam, Shop & Lab Supervisor

Faculty Promotions - 2016

Distinguished Professor

Bob Pavlowsky – GGP

Professor

Anita Liu – CSC

Kyoungtae Kim – BIO

Associate Professor with tenure

Adam Harbaugh – MTH

Matt Pierson – EGR (GGP)

Senior Instructor

Jennifer Pursley – MTH

Becky Baker – PAMS

Professor Salary Incentive Program

missouristate.edu/provost/psiprecipients

- 10 out of 30 in 2014
- 2 out of 10 In 2015
- 3 out of 12 in 2016
 - Kartik Ghosh – PAMS
 - Reza Sedaghat-Herati – CHM
 - Xingping Sun – MTH

Foundation Award Winners

missouristate.edu/provost/foundationawards

Missouri State University Foundation Awards for Research 2016

- *Paul Durham – Biology*
- *Kanghui Guo – Mathematics*

Missouri State University Foundation Awards for Service 2016

- *Kyoungtae Kim – Biology*

External Funding Fun Fact

- Sponsored Research Annual Report FY2016 – starts on page 145 of missouristate.edu/assets/agendas/Agenda.Retreat.7.28.2016.open.pdf
- CNAS Faculty submitted 115/362 total proposals – 32%
- CNAS Faculty were awarded 72/288 grants – 25%



Student Research

8th Annual CNAS Undergraduate Research Day
Friday, April 28, 2017

science.missouristate.edu/Undergraduate-Research-Day

Graduate College IDF – Saturday, April 29, 2017

graduate.missouristate.edu/currentstudents/IDF

Springfield Greene County Library Series

<http://thelibrary.org/index.cfm?src=m>

Armchair University Science Series at [The Library Center](#) (4653 S Campbell)

Wednesdays, 7 p.m. – 8 p.m. in the auditorium

- **September 28: CRISPR – Bacterial Defense to Genomic Editing**

Dr. Paul Schweiger from Missouri State University's Biology Department will discuss the CRISPR/Cas9 gene editing technique and how it has been used to fight diseases and enhance agriculture. He will also discuss the ethical issues of this new technique.

- **October 26: The Golden Age of Exoplanet Discovery**

Dr. Peter Plavchan from Missouri State University's Department of Physics, Astronomy and Materials Science will discuss recent advances in the discovery of exoplanets and what these discoveries have taught us about our Universe. Dr. Plavchan will also discuss current exoplanet research projects at MSU.

- **November 30: Water Quality Problems and Possible Solutions in Ozarks' Streams**

Dr. Bob Pavlowsky, Director of the Ozarks Environmental and Water Resources Institute at Missouri State University, will discuss contemporary water quality problems in Springfield and the Ozarks region and what communities are doing to address those problems.

Title IX Policy on Sexual Assault, Stalking and Other Forms of Sexual Misconduct – G1.31

missouristate.edu/policy/G1_31_Title_IX

- Any member of the University community is strongly encouraged to report conduct that may constitute a violation of this policy to the Title IX Coordinator, or a responsible employee. **Any responsible employee MUST forward such reports to the Title IX Coordinator within 3 days to review and investigate.** Any responsible employee who knew about a violation of this policy and took no action to stop it or failed to report the prohibited act may be subject to disciplinary action.
- If one desires that details of the incident be kept confidential, they should speak with on-campus mental health counselors, campus health service providers or off-campus rape crisis resources who can maintain confidentiality. Campus counselors are available to help students free of charge. In addition, you may speak on and off-campus with members of the clergy, who may also keep reports made to them confidential (see below for contact information). The Title IX Coordinator and Office of General Counsel will evaluate other requests for confidentiality on a case-by-case basis.

**Green Dot Training is available for all faculty and staff.
Please contact your department head to schedule training.**

Important University contact information:

MSU Safety and Transportation.....417-836-5509
Office of the Dean of Students.....417-836-5527
Human Resources.....417-836-6616
Counseling Center.....417-836-5116
Taylor Health Center417-836-4000
Title IX Coordinator.....417-836-8506

Other sources of counseling, advocacy and support off campus:

Springfield Police Department.....911 or 417-864-1810
Victim's Center (417).....417-864-7233
Family Violence Center.....417-864-7233
Mercy Emergency- Trauma Center.....417-885-2115
Cox Emergency Department - North.....417-269-3393
Cox Emergency Department - South.....417-269-4083



Have a great semester!

Free faculty/staff portrait days

Tuesday-Wednesday, August 30-31

9 AM - 4 PM in PSU 317

Communications & Outreach

Email: cnas@missouristate.edu

Blogs: blogs.missouristate.edu/cnas

Newsletter: blogs.missouristate.edu/cnas/discoveries

