



College of Natural and Applied Sciences

science.missouristate.edu



State of the College Address

Dr. Tammy Jahnke, Dean

August 22, 2018

Missouri State
UNIVERSITY



Missouri State University Long-Range Plan/Annual Goals

- Long Range Plan
2011-2016
- Annual goals and outcomes for 2017-2018
- Annual goals for 2018-2019
- Six areas with vision, strategic priorities and university goals.
 - Academic Profile
 - Student Experience
 - Diversity and Inclusion
 - Globalization
 - Infrastructure
 - Funding



CNAS New Faculty

- ❖ Tiglet Besara – PAMS (MPh – Stockholm University, MS and PhD – Florida State University)
- ❖ Liza Cobos – Hospitality Leadership (BBA – Loyola University, MS and PhD – University of Central Florida)
- ❖ Sarah Morrison – Astronomy (BA – Cornell University, MS and PhD – University of Arizona)
- ❖ Sanjay Tewari – Civil Engineering (PhD – Texas A&M University)
- ❖ Melanie Carden-Jessen – GGP Instructor (BS and MS – Missouri State University)
- ❖ Scott Curtis – CHM Instructor (MS – Missouri State University)



CNAS New Department Heads

- **Ajay Katangur** – Computer Science (Btech – India, MS and PhD – Georgia State University) 2004-2018 – Faculty member at Texas A&M – Corpus Christi
- **Robert Mayanovic** – Physics, Astronomy and Materials Science (BS Missouri State University, MS and PhD Purdue University) 1992-present – Faculty member at Missouri State University



Faculty Promotions - 2018

Distinguished Professor

Shouchuan Hu - MTH

Professor

Jun Luo – GGP

Mark Rogers – MTH

Jamil Saquer - CSC

Associate Professor – with tenure

Matt Siebert – CHM

Tenured

Ridwan Sakidja - PAMS



CNAS Mission/Vision

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.



Values

We value:

- 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.

Top 5 Accomplishments

- Solar Eclipse Event in fall of 2017 that brought the entire campus together in Plaster Stadium
- College Fee passed
- Curricular changes
 - New pathway for science secondary education students
 - Many new certificate programs
 - MS in computer science
- Faculty/student Research Accomplishments (graduate and undergraduate)
- Infrastructure Improvements – Student study room in mathematics renovated, new computer science space for graduate students, phase I addition for mechanical engineering will be complete this fall and addition to Temple Hall greenhouse should start soon.



CNAS – Goals for 2018-2019

- Increase completions (certificates, BS and MS)
- Retention/growth (demand, capacity, marketing)
- Proactive advising – training with COAL
- Study Groups and Bear Claw
- CNAS Career Expo – November 5, 2018



- Funding Realities

- Enrollment makes a difference. Where do we have capacity and is there anything new that might bring in new/different students?
 - Online courses/programs, unique certificate programs, block classes

- College Fee

- \$350,000 is going straight back to your departments
- Student Success Center (two staff will be hired after the first of 2019)
- Infrastructure Improvement
 - Greenhouse addition
 - Space trade in Kemper Hall with COB (win-win for each college) 2019
 - BSFS educational facility expansion
 - Consultant to do comprehensive plan for the college.

- Mechanical Engineering Implementation Plan – on-going new money for implementation (phase II renovations and hiring)



Ad Hoc Committees (new)

- Evaluation of Teaching
- CNAS Master Planning Committee



- Hiring Plan (round 1)

- Chemistry (biochemistry)
- Computer Science
- Biology (fish biology)
- Biology (evolutionary biology)
- Mathematics

- May be others that come up.

- We will have a hiring plan and timeline for mechanical engineering by the end of 2018.



External Funding Facts

- From Sponsored Research Annual reports
- CNAS Faculty/Staff submitted 115/362 total proposals in 2015/2016 – 32%
- CNAS Faculty/Staff submitted 137/383 total proposals in 2016/2017 – 36%
- CNAS Faculty/Staff submitted 109/372 total proposals in 2017-2018 – 29%
- CNAS Faculty were awarded nearly \$3,000,000 in grant funding in 2017-2018.
 - Includes all departments, Bull Shoals Field Station (BSFS), Center for Resource Planning and Management (CRPM) and Ozarks Environmental Water Resource Institute (OEWRI) and Center for Biology and Life Sciences (CBLS)

Faculty Peer-Reviewed Publications

Calendar Year	2012	2013	2014	2015	2016	2017
	#Contributions	#Contributions	#Contributions	#Contributions	#Contributions	#Contributions
Department						
BIO	19	18	33	24	29	31
CHM	16	19	10	15	9	13
CSC	0	3	1	1	2	3
EGR	0	1	0	1	0	1
GGP	12	23	22	20	15	17
HL	2	2	2	4	5	4
MTH	8	15	5	8	8	12
PAMS	17	23	24	20	26	28
Total by COLUMNS	74	104	107	93	94	109

Student/Faculty Publications and Presentations (2016/2017)

	Publications		Presentations	
	Undergraduate	Graduate	Undergraduate	Graduate
Department of Biology	7/14	17/33	34/56	62/50
Department of Chemistry	3/4	6/10	9/14	21/18
Department of Computer Science	3/2	2/1	0/8	0/0
Department of Geography, Geology, and Planning	5/2	6/8	2/117	13/76
Department of Hospitality Leadership	0	0	0	0
Department of Mathematics	6/9	2/2	0/0	0/0
Department of Physics, Astronomy, and Materials Science	9/13	10/12	16/4	12/17
Cooperative Engineering Program	1/3	4/3	0	0



Student Research

10th Annual CNAS Undergraduate Research
Day Friday, May 3, 2019

science.missouristate.edu/Undergraduate-Research-Day

Graduate College IDF – Saturday, May 4, 2019

graduate.missouristate.edu/currentstudents/IDF

Communications

Email: cnas@missouristate.edu

CNAS NEWS: blogs.missouristate.edu/cnas

Newsletter: **DISCOVERIES**

