



# College of Natural and Applied Sciences

[science.missouristate.edu](http://science.missouristate.edu)



**State of the College Address**

**Dr. Tammy Jahnke, Dean**

**August 24, 2017**

**Missouri State**  
UNIVERSITY



# Missouri State University Long-Range Plan/Annual Goals

- Long Range Plan 2011-2016
- Annual goals and outcomes for 2016-2017
- Annual goals for 2017-2018
- Six areas with vision, strategic priorities and university goals.
  - Academic Profile
  - Student Experience
  - Diversity and Inclusion
  - Globalization
  - Infrastructure
  - Funding
- Three Areas of Focus for 2017-2018
  - Increase the number of graduates while maintaining academic rigor and quality
  - Enhance Campus Diversity and Inclusion
  - Funding



# Developing a Sustainable Financial Model

- Affordability
- Efficiency
- Revenue Growth
- Revision of Current Tuition, Fee and Scholarship Policies

# State Funding Performance Measures are changing! Current list below. Watch for new list in November/December

- 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 New Faculty

- ❖ BIO – Babur Mirza, PhD Texas State University
- ❖ CHM – Cyren Rico, PhD University of Texas, El Paso
- ❖ GGP – Krista Evans, PhD Clemson University
- ❖ GGP – David Perkins, PhD University of North Carolina, Greensboro
- ❖ HL – Yoshimasa (Nancy) Kageyama, PhD University of Central Florida
  
- ❖ HL – Wajeana White, Instructor
- ❖ MTH – Anna Tripi, Instructor
- ❖ MTH – Fan Zhou, Instructor
- ❖ PAMS – Tig Besara, Visiting Assistant Professor

# CNAS New Staff

- GGP – Tracy Carroll, Administrative Assistant
- HL – Sandra Bales, Administrative Assistant
- HL – Stephanie Cockrell, Academic Advisor – Marketing & Recruitment

# Faculty Promotions - 2017

## Distinguished Professor

Bob Mayanovic – PAMS

## Professor

Judy Meyer – GGP

Xin Miao – GGP

Adam Wanekaya - CHM

## Senior Instructor

Kimberly Van Ornum – MTH

# Springfield Greene County Library Series

[TheLibrary.org/branches/tlc](http://TheLibrary.org/branches/tlc)

- Armchair University Science Series at The Library Center (4653 S Campbell) on Tuesdays, 7-8 PM, Auditorium
- **September 26: From Allergies to Zika Virus: The Good and Bad of the Immune System** - Dr. Chris Lupfer: Department of Biology
- **October 24: Wetland Plants: What Are They Good For?** - Dr. La Toya Kisson-Charles: Department of Biology
- **November 28: Beneath the Surface: Fabulous Biodiversity in Flowing Waters** - Dr. Debra Finn: Department of Biology





# 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.




# Alignment of Goals

- College and Departmental Goals all fall under the six areas.
  - Academic Profile
  - Student Experience
  - Diversity and Inclusion
  - Globalization
  - Infrastructure
  - Funding

# CNAS – Goals for 2017-2018

- Increase # of graduates – continue proactive advising of students; begin new MS in CSC; support university initiatives
- Enhance Campus Diversity and Inclusion – invite diverse seminar speakers, support diverse student organizations, support recommendations from CNAS Diversity Committee
- Funding – Propose a new college-wide fee, grow OTC TA possibilities, continue to dominate in submission of grants

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- Academic Profile – Complete BSED revisions for science, seek to provide more internships for students, continuous improvement through program review and accreditation; continue to provide research opportunities for students and support faculty research.
  - Student Experience – Support CNAS student organizations and CNAS STEM and HL Career Fairs
  - Globalization – Continue to support short-term study away programs. Develop a plan to provide more support to international students majoring in CNAS

- Infrastructure – Move appropriate items to storage to make more room for faculty research, continue to advocate for additional space.
- Partnerships – Continue all current partnerships. There are many!!!!
- Funding – Help university in efforts of affordability (helping students to graduate with just the required credit hours); help university in efforts of efficiency; help the university in efforts of revenue growth (bootcamps or other short term programs); and help with revision of policies.

# CNAS Graduates - range from 2012-2017 (average)

Departments	BS/BA/BSED/BAS Graduates	Certificate Completions	MS Graduates (includes MNAS and MSED)
BIO	94-122 (108)		17-39 (23)
CHM	17-30 (25)		7-13 (10)
CSC	18-41 (27)		1-4 (2)
GGP	60-82 (69)	UG 12-14 (13) GRAD 1-8 (5)	15-19 (17)
HL	55-92 (68)		
MTH	28-36 (31)		8-22 (12)
PAMS	8-13 (10)		5-11 (7)

**CNAS with the help of the provost has added \$200,000 to support TA's in the past four years.**

<b>Department</b>	<b>FY18 TA Allocations</b>	
<b>BIO</b>	\$267,589	Funds 25-30 TA's
<b>CHM</b>	\$156,921	Funds 14.5-17.5 TA's
<b>CSC</b>	\$40,000	Funds 4-4.5 TA's
<b>GGP</b>	\$162,810	Funds 15-18.5 TA's
<b>HL</b>	\$18,000	Funds 2 TA's
<b>MTH</b>	\$128,027	Funds 12-14.5 TA's
<b>PAMS</b>	\$137,418	Funds 12-15.5 TA's
<b>MNAS</b>	\$48,000	Funds 4.5-5.5 TA's

# External Funding Fun Fact

- 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 were awarded over \$2,570,000 in grant funding in 2016-2017.
  - 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
	#Contributions	#Contributions	#Contributions	#Contributions	#Contributions
<b>Department</b>	Value	Value	Value	Value	Value
<b>BIO</b>	19	18	33	24	29
<b>CHM</b>	16	19	10	15	9
<b>CSC</b>	0	3	1	1	2
<b>EGR</b>	0	1	0	1	0
<b>GGP</b>	12	23	22	20	15
<b>HL</b>	2	2	2	4	5
<b>MTH</b>	8	15	5	8	8
<b>PAMS</b>	17	23	24	20	26
<b>Total by COLUMNS</b>	74	104	107	93	94

# Student/Faculty Publications and Presentations

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



# Student Research

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

[science.missouristate.edu/Undergraduate-Research-Day](http://science.missouristate.edu/Undergraduate-Research-Day)

<http://science.missouristate.edu/Undergraduate-Research-Day.htm>

Graduate College IDF – Saturday, April 29, 2017

[graduate.missouristate.edu/currentstudents/IDF](http://graduate.missouristate.edu/currentstudents/IDF)

**2018 Dates – May 3 and 5**



*Have a wonderful semester!*

## Free Portrait Days

Wednesday and Thursday, August 30-31

9 AM - 4 PM in PSU 317

# Communications

Email: [cnas@missouristate.edu](mailto:cnas@missouristate.edu)

CNAS NEWS: [blogs.missouristate.edu/cnas](https://blogs.missouristate.edu/cnas)

Newsletter: **DISCOVERIES**



# CNAS Shared 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