

Council of Graduate Coordinators and Staff (CGCS) Meeting

November 18th 2011

Agenda

- Admission Requirements (GRE, etc.)
- Research Capacity Study
- Recruiting High Quality Students
- Graduate Learning Objectives (GLO) Rubrics
- Russian Grad Students
- Announcements:
 - Posthumous Degrees
 - Graduate Faculty Meeting
 - Graduate Catalog Revisions
 - Holiday Schedule

Admission Requirements (GRE, etc.)

Input from one program:

Hard to recruit graduate students when each department requires different minimum scores on GRE and TOEFL. Can this be made uniform across the campus?

Background: The graduate faculty sets the campus level policy for minimums. Our campus used to have minimums for GRE scores but by a graduate faculty vote it was decided that the GRE minimums for the campus must be removed and the individual departments should set their own GRE requirements. Some departments argued that GRE does not help/work for their programs.

Research Capacity at Missouri S&T

Venkat Allada (co-chair)

VP Graduate Studies

K. Krishnamurthy (co-chair)

VP Research

Task Force Members:

Dr. Venkat Allada, VP Graduate Studies, Professor of Engineering Management & Systems Engineering (Co-Chair)

Dr. S. N. Balakrishnan, Curators' Professor of Aerospace Engineering

Dr. Al Crosbie, Curators' Professor of Mechanical Engineering

Dr. Mariesa Crow, ERDC Director and Finley Professor of Electrical Engineering

Dr. Wayne Huebner, Department Chair and Professor of Ceramic Engineering

Dr. Ali Hurson, Department Chair and Professor of Computer Science

Dr. Kamal Khayat, CIES and NUTC Director and Vernon Maralee Jones Professor of Civil Engineering

Dr. K. Krishnamurthy, VP Research, Professor of Mechanical Engineering (Co-Chair)

Dr. Ming Leu, ISC Director and Keith and Pat Bailey Distinguished Professor of Mechanical Engineering

Dr. Suzie Long, Assistant Professor of Engineering Management & Systems Engineering

Dr. Yinfa Ma, Curators' Teaching Professor of Chemistry

Dr. John Myers, Associate Professor of Civil Engineering

Dr. Runar Nygaard, Assistant Professor of Geological Sciences & Engineering

Dr. Matt O'Keefe, MRC Director and Professor of Metallurgical Engineering

Dr. Paul Parris, Professor of Physics

Dr. Nancy Stone, Department Chair and Professor of Psychological Sciences

Dr. Hai Xiao, Associate Professor of Electrical & Computer Engineering

Resource People:

Mr. Andy Careaga, Director of Communications

Ms. Margaret Cline, Chief Information Officer

Dr. Thulasi Kumar, Director of Institutional Research & Assessment

Ms. Joan Nesbitt, Vice Chancellor for University Advancement

Mr. Andy Stewart, Director of Library & Learning Resources

Scheduling/Logistics:

Ms. Lauren Costoplos – Administrative Assistant, Office of Graduate Studies

Ms. Sue Papen – Administrative Assistant, Office of Sponsored Programs

Charge of Task Force on Research Capacity

Study Missouri S&T's "current state" research capacity report and develop a "future state" recommendations report to expand and elevate S&T's research performance and reputation.

Specifically, the charge to the Task Force is:

1. Review the "current state" research capacity report and collect other pertinent data as deemed appropriate.
2. Recommend short- and medium-term actions that can be taken to improve the research performance of and increase the research capacity at S&T.
3. Recommend areas/disciplines in which we must invest, including hiring new faculty and research personnel and recruiting high quality graduate students to enhance the research mission of S&T.

Outcomes

Recommendations Report: This work will result in a number of recommendations for Missouri S&T in advancing S&T's research mission.

The recommendations may be organized under categories such as: **Structure, People, and Culture**. To this end, the Task Force is not limited to, but should consider issues such as:

- ✓ Research and scholarship indicators
- ✓ University Rankings
- ✓ Research needs
- ✓ Awards, incentives, etc.
- ✓ Faculty Workload
- ✓ Faculty and research personnel hiring
- ✓ Recruiting high quality graduate students
- ✓ Student assistantships and fellowships, Stipend X, etc.
- ✓ Revenue needs of the university

Findings by the task force should be summarized and presented to Chancellor Wray no later than Tuesday, April 3, 2012.

Categories

Structure

- Official documents identifying research mandate: mission, vision, strategic plan
- Job descriptions have research mandates: academic tenure regulations
- Physical resources: space, laboratory facilities, computing hardware and software, library facilities
- Financial resources: internal investments, infrastructure development and maintenance, startup funds, graduate fellowships
- Support mechanisms: research centers
- Incentives: raises, promotion, awards
- Disincentives: teaching load

Culture

- Supportive culture: commitment to and valuing research; role models and formal mentorship
- Sharing of knowledge: scholarly publications, meetings, workshops, sabbaticals
- Valuing risk taking and innovation: establishing stretch goals

People

- Technical expertise: T/TT/research NTT, post docs, graduate and UG research assistants
- Areas/disciplines of excellence, new investments
- Motivation: making a difference

Ref: J. M. Birdsell, L. Ginsburg, K. Golden-Biddle, A. Groeneveld, A. Langley, J. Underwood, S. Zahra, and W. Zerbe, Assessing organizational research capacity (working paper). Edmonton, AG: Alberta Heritage Foundation for Medical Research, 2002.
http://www.google.com/url?q=http://www.aihealthsolutions.ca/download.php/04d37cf578509ad1f82b77b7efff6eb9&sa=U&ei=w2W3Tv_jLu6A2QWH6rzMDQ&ved=0CBMQFjAA&usg=AFQjCNH4UT7xs_Ek7jvJeW9PptR0FbuTHA

Sub-committee groups

- Three sub-committee groups will be formed by Dec 5, 2011:
 - Structure sub-committee
 - People sub-committee
 - Culture sub-committee

Meeting Schedule

Monday, November 7, 2011, 12-1 p.m., Missouri Room

Kick-off Meeting: Review Charge & Outcomes, Meeting Schedule, Sub-committee groups

Monday, December 5, 2011, 12-1 p.m., Ozark Room

Research Capacity Categories: Structure, People, Culture

Sub-committee assignments

Monday, January 23, 2012, 3-4:30 p.m., Room TBD

Subcommittee Meetings

Monday, January 30, 2012, 3-4:30 p.m., Room TBD

Subcommittee Meetings

Monday, February 6, 2012, 3-4:30 p.m., Room TBD

Subcommittee Meetings

Monday, February 20, 2012, 3-4:30 p.m., Room TBD

Subcommittee Findings & Recommendations

Monday, March 5, 2012, 3-4:30 p.m., Room TBD

Review & Discuss 1st Draft Findings and Recommendations

Monday, March 19, 2012, 3-4:30 p.m., Room TBD

Final Review Findings & Recommendations

Tuesday, April 3, 2012 Task Force Report due to Chancellor Wray

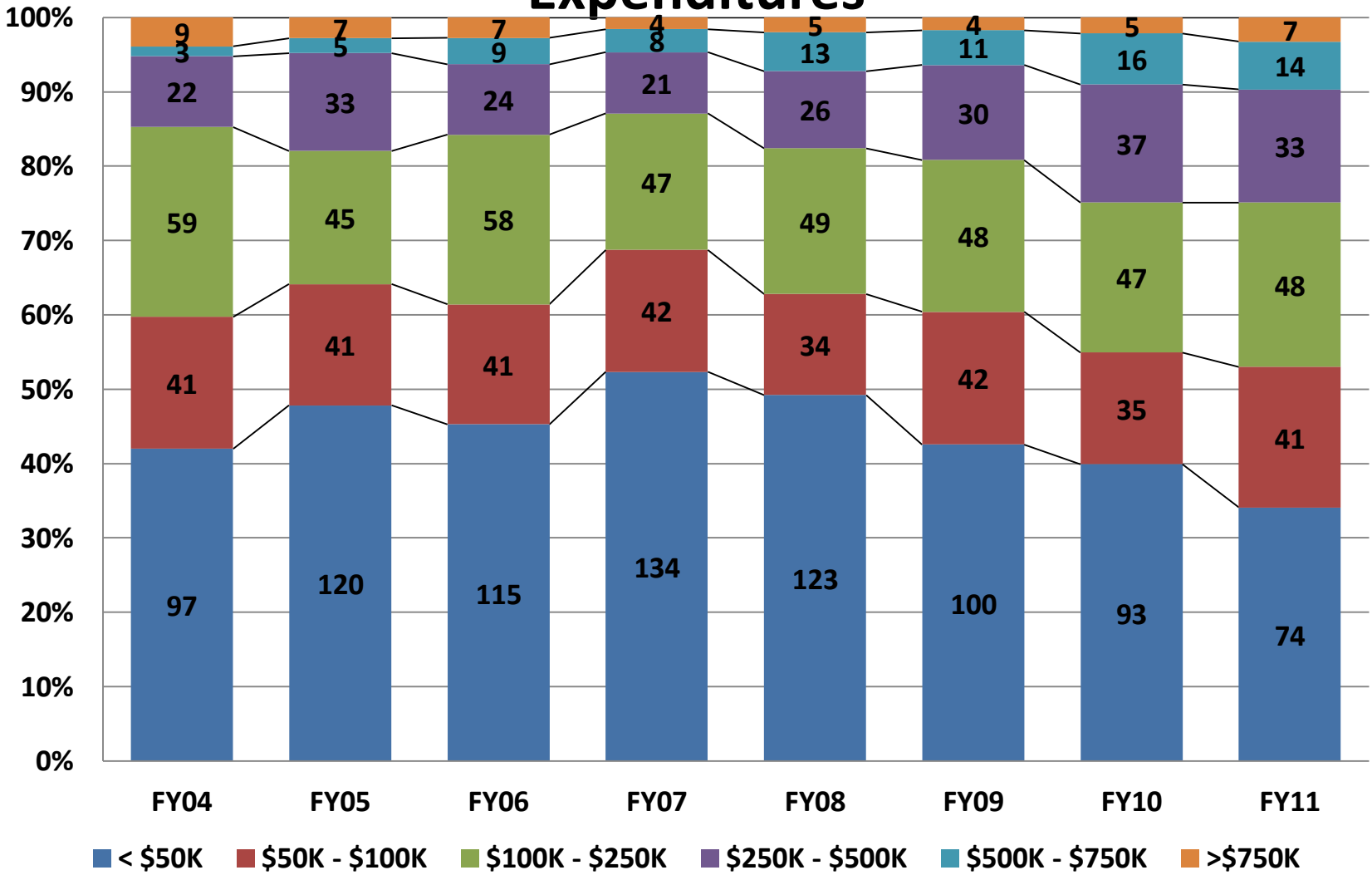
“Current State” Research Capacity Highlights

- Research capacity was viewed from the perspectives of human resource capacity, and financial and physical resources
 - Externally sponsored program expenditures – metric to measure success
 - Proposals submitted and awarded – leading indicators for measuring state of expenditures
 - Number of tenured/tenure-track faculty, post-doctoral fellows, graduate research assistants – metrics for measuring human resource capacity
 - Research space – metric for measuring physical resource capacity
 - Research center budgets, UM Research Board awards – metrics for measuring financial resource capacity
- No effort was made to document the University’s performance in scholarship and technology transfer activities

Sponsored Program Related Metrics

		FY01	FY02	FY03	FY04	FY05	FY06	FY07	FY08	FY09	FY10	FY11
Proposals Submitted	(\$M)	75.24	91.10	128.99	132.45	133.61	116.22	110.12	151.14	180.09	259.07	149.50
	No.	411	388	476	512	527	485	400	549	567	528	496
Proposals Awarded	(\$M)	25.79	24.99	30.12	35.90	28.37	32.03	37.23	38.36	42.57	52.32	43.21
	No.	300	260	336	370	333	326	348	369	364	327	291
Total Expenditures	(\$M)	22.19	26.53	28.90	34.81	34.75	36.26	32.27	37.70	38.08	44.69	45.88
No of Faculty w Expenditures		n/a	n/a	n/a	231	251	254	256	250	235	233	219
No of T/TT Faculty		263	270	268	279	281	279	274	293	288	279	n/a
Total SCH (Fall)		61,092	65,373	67,016	66,582	69,598	72,387	77,324	79,309	84,979	89,330	n/a

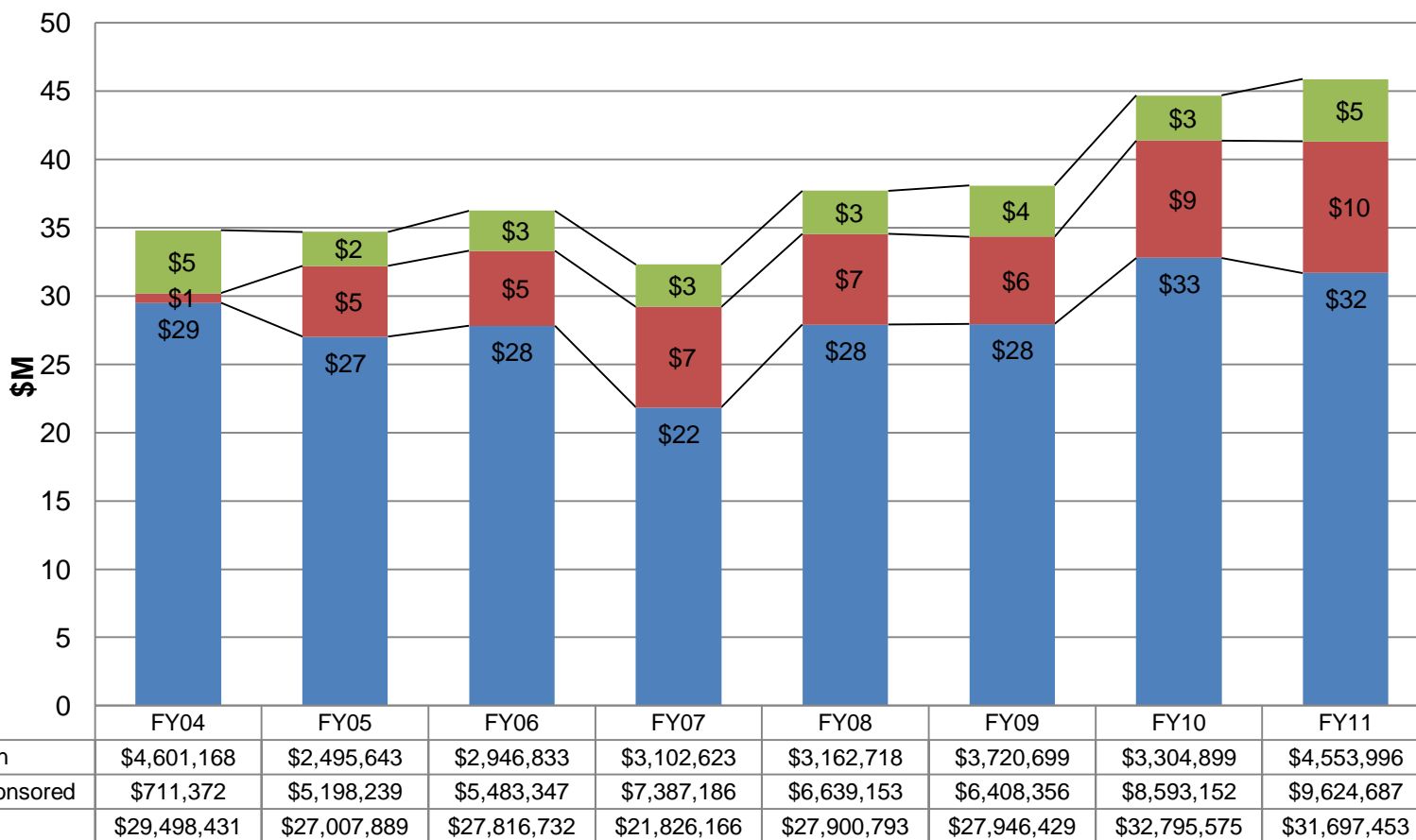
Frequency Distribution of Number of Faculty with Expenditures



Headcount/FTE of Graduate Research Assistants and Post-Doctoral Fellows

	FY01	FY02	FY03	FY04	FY05	FY06	FY07	FY08	FY09	FY10
Headcount										
Graduate Students	1127	1391	1370	1287	1289	1343	1414	1459	1610	1702
Graduate Research Asst	347	395	419	387	395	373	326	341	394	394
Post-Doctoral Fellow	22	24	29	34	35	30	26	20	22	27
Full-Time Equivalent										
Graduate Research Asst	143.7	155.4	168.1	163.9	164.7	154.8	136.7	144.7	164	164.1
Post-Doctoral Fellow	21.1	22.2	26.5	31.4	31.4	28	23.6	18.1	18.8	22.7

Grant and Contract Expenditures by Type



CGCS Input

Please provide your inputs/suggestions on S&T Research Capacity to us by noon January 23, 2012.

Email: allada@mst.edu

Recruiting High Quality Students

- Stipend X increase
- Zero-out the I-20 (for students with full departmental funding)
- Match money provided by Office of Graduate Students to recruit high quality PhD students
- VPGS Fellowship awards (\$500)

GLO Rubrics

- Request to submit your graduate program GLO rubrics. IT's very important for HLC accreditation.

Sponsored Russian Grad Students

- Russia will sponsor thousands of students to receive masters and doctoral degrees at the world's leading universities during the next decade.
- 2,000 Russian students will enroll in foreign universities from 2012, rising to up to 10,000 in 2015.
- First year of the initiative will cost an estimated US\$60 million.

Full article:

<http://www.universityworldnews.com/article.php?story=20110708163511469&mode=print>

Announcements

- Posthumous Degrees
- Graduate Faculty Meeting
- Grad Catalog Revisions
- Holiday Schedule

Graduate Faculty Meeting

December 5th, 2011 3:00pm

Missouri/Ozark Room

Grad Catalog 2012-13 Revisions (Tentative Schedule)

- Feb. 15th First proof to academic departments
- March 5th First proof due back to Registrar's Office
- April 10th Final proof to academic departments
- April 25th Final proof due back to Registrar's Office
- June 14th Last Faculty Senate meeting in which curriculum changes for catalog will be approved
- June 14th Catalog changes due to curriculum approvals at June Fac Senate meeting due to Registrar's Office
- July 1st Catalog goes to print

Holiday Schedule

Our office will be closed on closed December 23rd and 26th.

Office open Dec 27-30 with No student advising available.

Office closed again January 2nd.

Open Items

Thanks for attending.

Happy Holidays.

Next meeting: January 20, 2012