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Advisory Board Members

Arthur J. Bauernfeind College of Business

Terry Holmes, Ph.D.
vacant

College of Education

Meagan Musselman, Ph.D.
Joyce Shatzer, Ph.D.

College of Health Sciences and Human Services

Daniel Hepworth, Ph.D.
vacant

College of Humanities and Fine Arts

ZB Smetana, Ph.D.
David Pizzo, Ph.D.

Hutson School of Agriculture

David Ferguson, Ph.D.
Michelle Santiago, Ph.D.

Jesse D. Jones College of Science, Engineering and Technology

Terry Derting, Ph.D.
Wafaa Fawzy, Ph.D.

School of Nursing

Summer Cross

University Libraries

Dieter Ullrich



Posters-at-the-Capitol

TOTAL # of PROPOSALS: 27

TOTAL # of SLOTS FILLED: 19

<u>College/School/Unit</u>	<u>Department/Program</u>	<u># of Proposals</u>	<u>Slots Filled Accepted</u>
Arthur J. Bauernfeind College of Business		3 / 11%	1 / 6%
	Economics and Finance	3	1
College of Education		1 / 4%	1 / 6%
	EC and Elementary Edu	1	1
College of Health Sciences and Human Services		0	0
College of Humanities and Fine Arts		3 / 11%	3 / 17%
	Creative Writing / History	1	1
	History	2	2
Continuing Education		0	0
Hutson School of Agriculture		3 / 11%	3 / 17%
	Agricultural Science	1	1
	Animal Sciences	1	1
	Animal Health Technology	1	1
Jesse D. Jones College of Science, Engineering and Technology		14 / 52%	9 / 44%
	Biological Sciences	9	5
	Chemistry	3	1
	Geosciences	2	2
School of Nursing		3 / 11%	2 / 11%
	Nursing	3	2



Murray State University continued to lead the coordination effort for the statewide *Posters-at-the-Capitol* (P@C) program. All of Kentucky's public universities and the Kentucky Community and Technical College System participated in this program. Following this year's program, a student participation survey across all participants was conducted and returned a 20% response rate. Below is a snapshot of the program-wide survey results:

- Heavy senior participation in P@C
- Academic disciplines
 - Science – 43%, Humanities and Fine Arts - 16%, Business – 16%, Agriculture – 11%, Health Sciences and Human Services – 8%, Education – 3%, and other – 3%
- 73% of respondents indicated their project was a result of an independent study
- 64% of respondents indicated they did not meet with their legislators while at P@C
- 60% of respondents indicated their faculty mentor attended P@C with them
- Key takeaways from the most valuable learning experience at P@C
 - Experience presenting projects to colleagues
 - Learning to present in a non-scientific fashion
 - Meeting faculty and student researchers from other institutions
- Positive Experiences
 - Good on program communication – 97.22% Satisfaction
 - Good on program organization – 86% Satisfaction
 - Good on overall experience – 89% Satisfaction



Scholars Week

Research and/or Scholarly Activity Posters:	104*
Service Learning Posters:	0
Service Posters:	5
TOTAL POSTER PRESENTATIONS:	109

TOTAL ORAL PRESENTATIONS:	75
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Undergraduate Student Participants (research or scholarly)	121
Undergraduate Student Participants (service learning)	0
Undergraduate Student Participants (service)	11
Graduate Student Participants	24
TOTAL STUDENT PARTICIPATION:	156

BREAKOUT OF RESEARCH/SCHOLARLY ACTIVITY POSTERS AND ORAL/PERFORMANCES:

<u>College/School/Unit</u>	<u>Poster</u>	<u>Oral</u>	<u>Faculty Mentors</u>
Arthur J. Bauernfeind College of Business	5	6	5
College of Education	0	7	6
College of Health Sciences and Human Services	19	3	5
College of Humanities and Fine Arts	9	31	15
Continuing Education	0	0	0
Huston School of Agriculture	8	4	5
Jesse D. Jones College of Science, Engineering and Technology	65	24	17
School of Nursing	3	0	1

** Posters that participated in the Sigma Xi competition are listed twice as actually being presented twice (Sigma Xi on Monday and General on Wednesday). The student headcount, however, does not double count.*



Research Scholar Fellowships

TOTAL # of PROPOSALS: 6

TOTAL # of FELLOWSHIPS

AWARDED: 3

<u>College/School/Unit</u>	<u>Department/Program</u>	<u># of Proposals</u>	<u>Funded Fellowships</u>
Arthur J. Bauernfeind College of Business		0	0
Continuing Education		0	0
College of Education		0	0
College of Health Sciences and Human Services		1 / 16%	0
	Nonprofit Leadership	1	
College of Humanities and Fine Arts		1 / 16%	1 / 33%
	Creative Writing / History	1	1
Jesse D. Jones College of Science, Engineering and Technology		4 / 67%	2 / 67%
	Biological Sciences	3	1
	Industrial Engineering and Technology	1	1
Huston School of Agriculture		0	0
School of Nursing		0	0

During 2013-2014, three former recipients of Research Scholar Fellowships had their work published in national journals. Jordan Althoff's "Collaboration within the M1 Aminopeptidase Family Promotes Reproductive Success in *Caenorhabditis Elegans*" was published in *Development Genes and Evolution*, a journal that features experimental and bioinformatics work at the systemic, cellular and molecular levels in the field of animal and plant systems. Jennifer Martin's "The Coffee Sands: A Cretaceous Beach Deposit in the Mississippi Embayment of Western Tennessee" was published in *The Compass*, a peer-reviewed journal for the Society of Sigma Gamma Epsilon. Caleb Robert's "Effects of Captive Elk Browse on a Midwestern Woody Plant Community" was published in the *American Midland Naturalist*, a peer-reviewed journal coordinated by the University of Notre Dame.



Two current recipients of Research Scholar Fellowships presented at the National Conference on Undergraduate Research in April. Dustin Patton presented “Smart Instrumentation Based Embedded System for Ultrasonic Positioning Estimation” and Haley Russell presented “The Woodhouse's Use of an Apothecary: The Ambiguous Mr. Perry.”

Current recipient, Haley Russell, has been accepted to present at an International Interdisciplinary Conference hosted by Newcastle and Northumbria Universities in Newcastle upon Tyne, England in July.

Former recipient, Samantha Thomas, presented at the Kentucky Academy of Science Annual Conference and won 1st place oral presentation in the botany category. Former recipient, Jennifer Martin, presented and won 1st place oral presentation in the graduate geology category.



URSA Grants

TOTAL # of PROPOSALS: 11
TOTAL # of GRANTS AWARDED: 10

<u>College/School/Unit</u>	<u>Department/Program</u>	<u># of Proposals</u>	<u>Funded Grants</u>
Arthur J. Bauernfeind College of Business		0	0
Jesse D. Jones College of Science, Engineering and Technology		5 / 45%	5 / 50%
	Biological Sciences	3	3
	Industrial and Engineering Technology	2	2
Continuing Education		0	0
College of Education		0	0
College of Health Sciences and Human Services		1 / 9%	0
	Nonprofit Leadership	1	0
College of Humanities and Fine Arts		3 / 27%	3 / 30%
	Psychology	3	3
Hutson School of Agriculture		1 / 9%	1 / 10%
	Pre-Vet Medicine	1	1
School of Nursing		1 / 9%	1 / 10%
	Nursing	1	1

URSA Grant recipient, Nolan Mark, presented at the Kentucky Academy of Science Annual Conference and won 2nd place poster in the engineering category.



Travel Support Grants

TOTAL # of PROPOSALS: 18

TOTAL # of GRANTS AWARDED: 17

<u>College/School/Unit</u>	<u>Department/Program</u>	<u># of Proposals</u>	<u>Funded Grants</u>
Arthur J. Bauernfeind College of Business		0	0
Jesse D. Jones College of Science, Engineering and Technology		6 / 33%	6 / 35%
	Biological Sciences	4	4
	Chemistry	2	2
Continuing Education		0	0
College of Education		2 / 11%	2 / 12%
	Early Childhood and Elementary Education	2	2
College of Health Sciences and Human Services		0	0
College of Humanities and Fine Arts		8 / 44%	8 / 47%
	English and Philosophy#	1	1
	History	3	3
	Music Education	1	1
	Music Performance*	1	1
	Psychology	2	1
Hutson School of Agriculture		2 / 11%	2 / 12%
	Animal Health Technology	2	2
School of Nursing		0	0

* Trumpet Ensemble (Equivalent to ~4 Travel Support Grants)

Medieval Drama Group (Equivalent to ~4 Travel Support Grants)



Professional Development

- The Office of Undergraduate Research and Scholarly Activity continued Murray State's institutional membership in the Council on Undergraduate Research (CUR). The Council on Postsecondary Education (CPE) continued to facilitate the membership process for all Kentucky public institutions to join as a "system" for better pricing. Institutional membership makes CUR resources available to all faculty, staff, and students.
- The Office of Undergraduate Research and Scholarly Activity joined the University of Kentucky and the CPE in working to establish the Kentucky Consortium of Undergraduate Research (KCUR). More information about this statewide consortium of undergraduate research professionals is expected in 2014-2015.

Other Activities

- Staffing structure for the office during 2013-2014 was the following: 1 – quarter-time Faculty Coordinator, 1 – half-time URSA Program Coordinator, and 1 – Graduate Assistant. During this academic year, two in-person URSA Advisory Board meetings were held. Also, the URSA Advisory Board conducted several conversations and votes using the Board listserv.
- During the 2013-14 academic year, over 20 classroom visits took place to discuss the opportunities available through the Office of Undergraduate Research and Scholarly Activity.
- In February, the Office of Undergraduate Research and Scholarly Activity participated in the Admitted Student Open House to promote undergraduate research to potential students and their parents/guardians.
- The Office of Undergraduate Research and Scholarly Activity in partnership with the MSU Foundation launched the inaugural cohort of the Research Policy Group. Their purpose was to engage in a policy-research project to produce a nonpartisan policy brief. The topic identified by State Representative Kenny Imes and State Senator Stan Humphries was "The Use of State Parks and Recreation Facilities as Economic Development Tools." On May, the Research Policy Group presented preliminary findings to Rep. Imes and Sen. Humphries. Their policy brief is still in development. Tentative plans for next year are to continue the Research Policy Group expanding on the same topic.
- In October, the Office again partnered with the School of Nursing and the Development Department to host a day-long session entitled "Evidence-based Best Practices in Clinical Healthcare." This gathering was to draw attention to and highlight undergraduate research activities of nursing students and raise awareness of future opportunities.
 - 70 students participated in this program and a dozen faculty and staff members.
 - Poster and oral presentations were offered before and after lunch.
- In April, the Office, in conjunction with the Office of the Provost, awarded the University Distinguished Mentor Award to Dr. David Ferguson, Department of Agricultural Science, for his meritorious efforts.



URSA Participants Highlighted During Honors Days*

Honors Program Medallion

Kristina Herrera
Samuel Pellock
Sierra White
Carli Whittington

Honors Graduate Outstanding Research Award

Kristina Herrera

Pugh Family Outstanding Senior in Economics

Abigail Shelley

Outstanding Spanish Student

Zona Ascensio

Outstanding Psychology Undergraduate Research Award

Meggie Goeke

Outstanding Senior in Biology

Carli Whittington

Outstanding Major(s) in Chemistry

Kristina Herrera
Samuel Pellock

Outstanding Area in Chemistry

Zachary Reeder

Chemistry Student Affiliates Award

Kristina Herrera

International Education Award

Sierra White



Outstanding Spring Graduates of Murray State University

Carli Whittington
Samuel Pellock

Presidential Scholars

Chesika Crump
Aida De La Fuente
Danielle Eichelberger
Anne Jablinski
Ryan Knight
Victoria Ramlose

** = Excludes Scholars Week Participation given the extensive nature of that list of participants.*



Operating Budget

<u>EXPENSE DESCRIPTION</u>	<u>AMOUNT</u>
Research Scholar Fellowships*	\$3,000
URSA Grants	\$4,000
URSA Travel Support Grants	\$3,500
<i>Posters-at-the-Capitol</i>	\$5,425
<i>Scholars Week</i>	\$300
Evidence-Based Best Practices Program	\$750
National Conference on Undergraduate Research	2,500
Research Policy Group	\$1,000
University Distinguished Mentor Award	\$1,000
Graduate Assistant	\$6,000
Office Operation	\$2,215
Faculty Development	\$575
	\$30,265
<u>INCOME DESCRIPTION</u>	<u>AMOUNT</u>
Budget	\$19,065
Provost Carry Forwards (October)	\$3,700
Provost Carry Forwards (January)	\$5,000
Provost - NCUR	\$2,500
	\$30,265

* During 2013-2014, three Research Scholar Fellowships included:

- A \$1000 student scholarship from the MSU Foundation (Not Reflected in URSA Budget);
- A \$500 student stipend; and
- A \$500 supply budget.