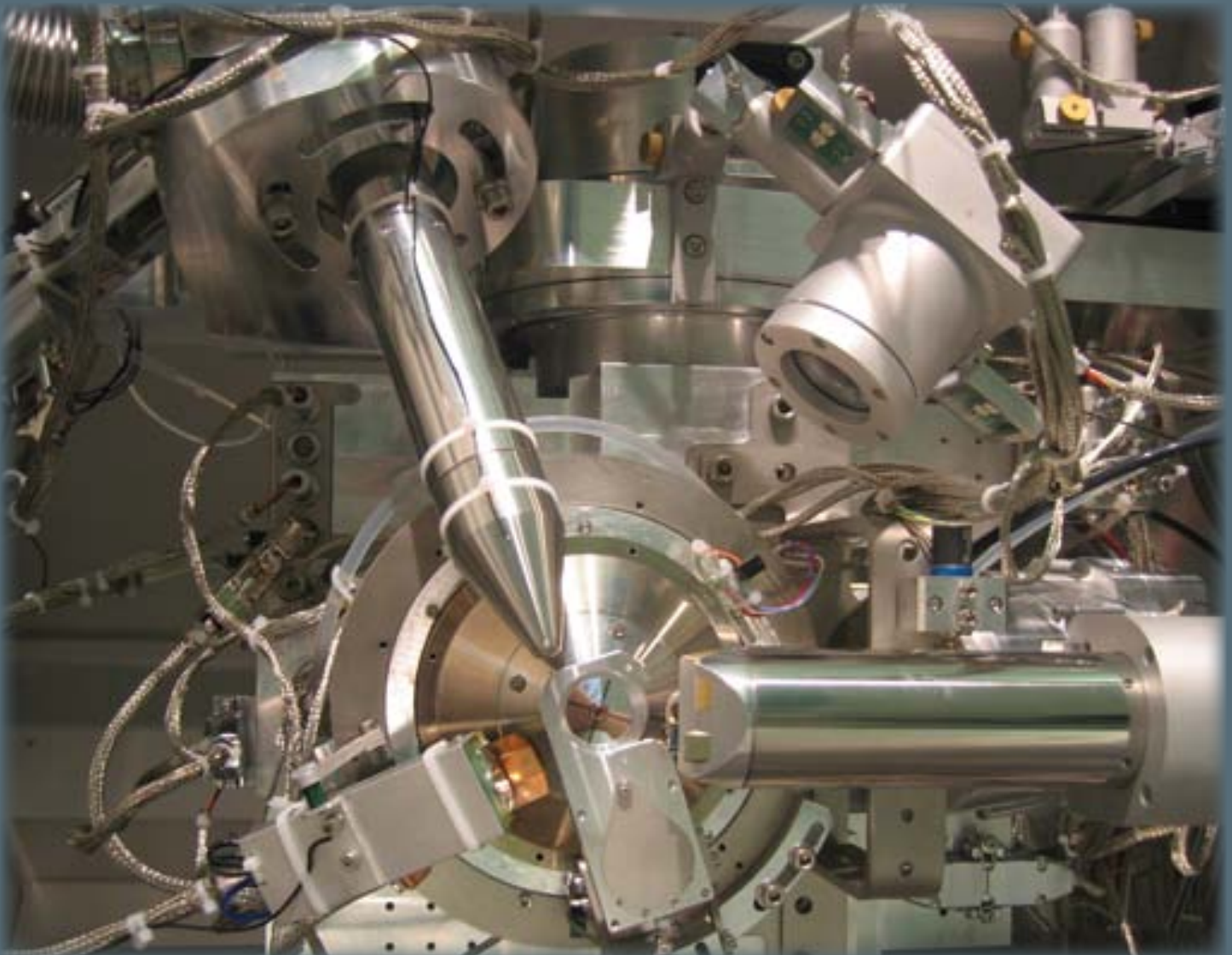


WKU[®]

Research & Sponsored Programs

Annual Report 2010-2011



Message from the Vice President



On behalf of Western Kentucky University and the Office of Research and Sponsored Programs, it is a pleasure for me to present this report of research activities for the fiscal year 2010-2011.

The dedication and commitment of talented WKU faculty and staff were again demonstrated through active participation in sponsored project activities in 2010-11, and the results have been encouraging.

Principal Investigators (PIs) play the pivotal role in sponsored programs. The increasing competitiveness of our principal investigators, and our capacity to successfully receive and administer external funds, assures a great future for sponsored programs at Western Kentucky University.

WKU's achievements cannot be measured by simple statistics alone, however. Every day the faculty and staff demonstrate their excellence in the sciences, arts, and education, while simultaneously conducting research and publishing these results in peer-reviewed journals.

Obviously, the WKU community is making an impact on both the national and international levels and we are proud of their accomplishments.

Gordon C. Baylis
Vice President for the Office of Research

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Office of
Research & Sponsored Programs

The logo features a red stylized building icon above the letters 'WKU' in a bold, black, serif font. Below this, the text 'Office of Research & Sponsored Programs' is written in a smaller, black, sans-serif font.

Message from the Director

The Office of Sponsored Programs is responsible for providing resources to search for funding opportunities, coordinate and authorize proposal submittal to external agencies and to interpret negotiate, and accept contracts and grants for projects funded by federal and state agencies, foundations, and other public and private sources. OSP also prepares and negotiates all sub-awards for collaborative research.

In fiscal year 2011, federal funding once again comprised the largest portion of the total amount received, at 52.3% of the total, or \$12,005,885.

Of the nonfederal funding, 47.8% came from state, local and private sources. Funding from non-federal sources totaled \$10,972,874.

In fiscal year 2011:

WKU submitted 268 proposals for request total of \$62,203,816

WKU received \$22,955,803 in grants, a total of 195 awards

37% of funds requested were received

72% of proposals submitted were awarded



We extend our appreciation to all who carried out the challenging work of preparing grant proposals— whether awarded or not—and recognize the productivity and commitment represented by all who are actively engaged in the pursuit of extramural funding.

The past year saw the realization of policies and programs that had been formulated the previous year, and the development of new ones recently drawn. We have worked to improve the effectiveness of communication strategies for OSP documentation routing; and expanded the internal Research and Creative Activities Program to incorporate more awards and to provide faculty with much-needed seed money to pursue external funding.

These are but a few highlights of the year, the details of which follow in this report. On behalf of the first-rate and hard-working OSP staff, we offer our warm regards and best wishes for continued success.

Nancy Mager
Director, Sponsored Programs

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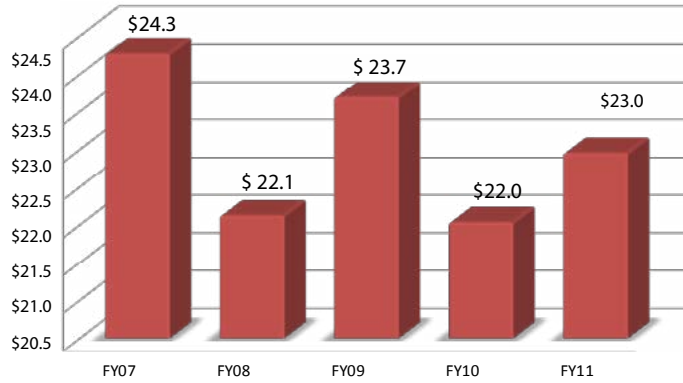
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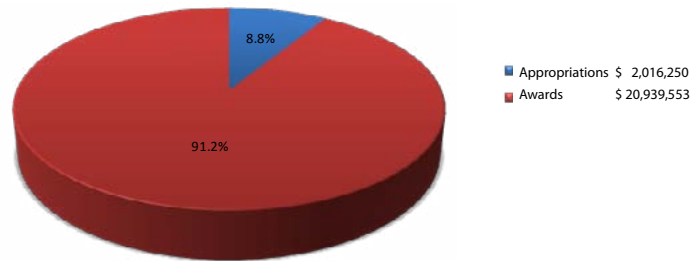
External Funding Overview

External Dollars Received 2007 - 2011
(in Millions of Dollars)

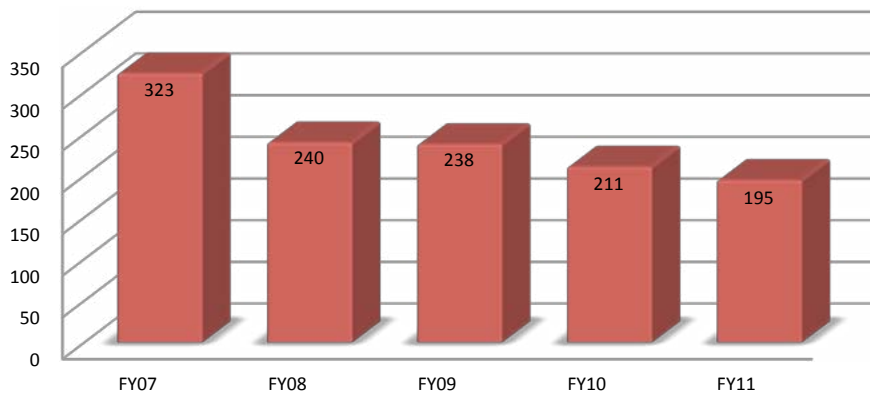


FY 07	\$24,271,622
FY08	\$ 22,123,638
FY09	\$ 23,690,258
FY10	\$22,034,483
FY11	\$22,955,803

Federal Appropriation Awards
(as Part of Total Award Dollars)



Awards by Fiscal Year
(Number of Awards)



External Funding Overview

External Dollars Received by Type of Award

<i>Source</i>	<i>Amount</i>	<i>Percentage</i>
Public Service	\$8,781,213	38.3%
Research	\$6,535,346	28.5%
Instruction	\$3,713,381	16.2%
Equipment	\$2,500,000	10.9%
Student Services	\$1,026,943	4.5%
Scholarships	\$398,920	1.7%
Totals	\$22,955,803	100%

External Dollars Received by Funding Source

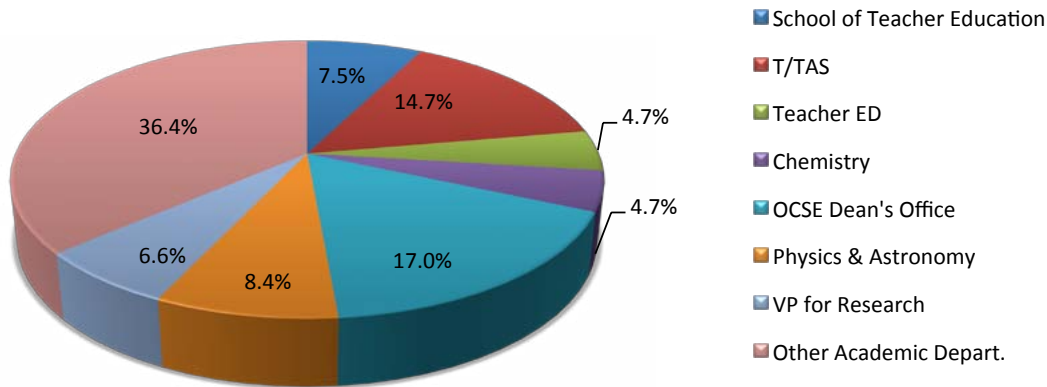
<i>Source</i>	<i>Number</i>	<i>Percentage</i>
Federal	102	52.3%
State	51	26.2%
Local	1	0.5%
Private	37	19.0%
International	4	2.1%
Totals	195	100%

External Dollars Received by Type

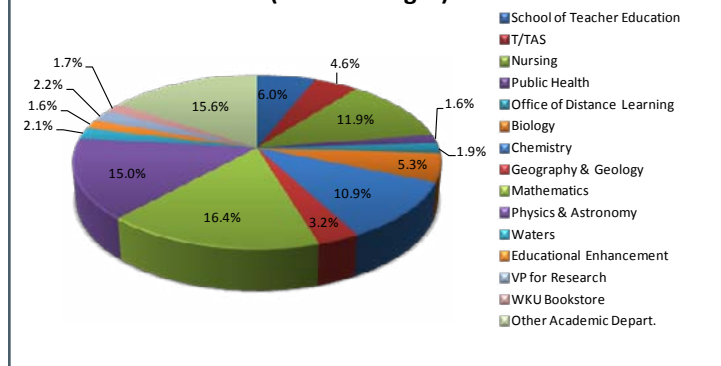
Grants	\$12,085,251
MOAs	\$4,434,665
Contracts	\$3,509,330
Subcontracts	\$2,891,557
Other	\$35,000
Totals	\$22,955,803

College Level

Award Dollars by Academic Department (in Percentages)



Proposal Dollars by Academic Department (in Percentages)



Award Dollars by Colleges and Other Units

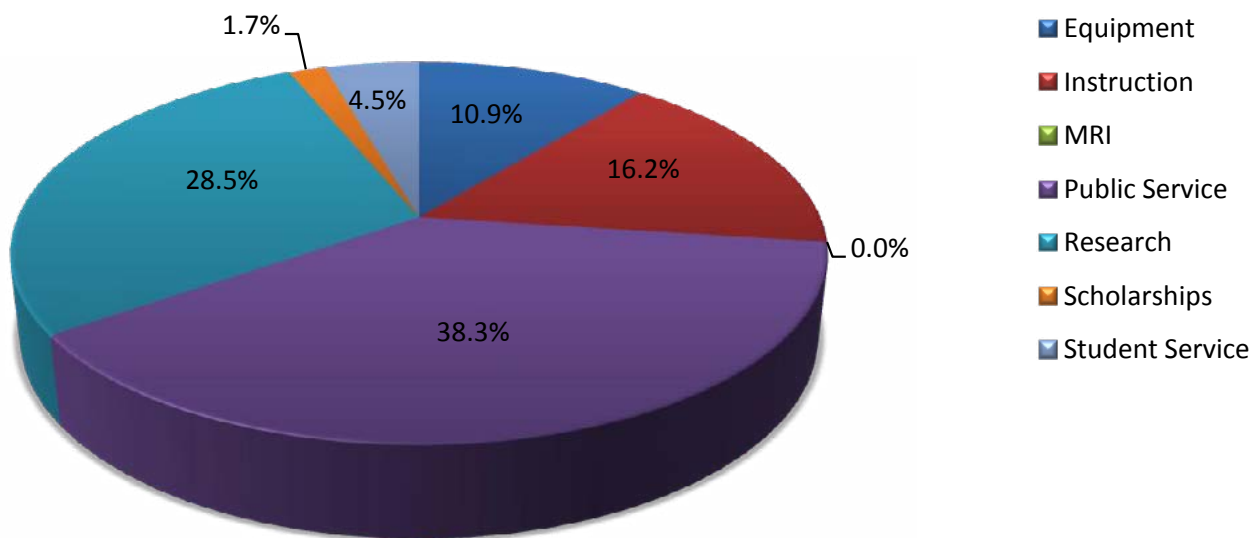
College	Award Dollars	Awards
Ogden College of Science and Engineering (OCSE)	\$8,188,929	87
College of Education and Behavioral Sciences	\$7,642,843	40
Other	\$4,893,820	27
College of Health and Human Services	\$1,551,701	25
Honors College	\$ 287,646	3
Gordon Ford College of Business	\$256,948	8
Potter College of Arts and Letters	\$ 120,071	4
Community	\$ 13,843	1

Awards by Project Type

Awards by Project Type

Public Service	\$8,781,213
Research	\$6,535,346
Instruction	\$3,713,381
Equipment	\$2,500,000
Student Services	\$1,026,943
Scholarships	\$ 398,920

Awards by Project Type (in Percentages)



Research and Creative Activities Program (RCAP)

RCAP 2010-11 Annual Report

The WKU Office of Research has long held the belief that fostering faculty scholarship creates a bridge to successfully cultivating the minds of WKU's students. To support this vital connection, the Office of Research established the Research & Creative Activities Program (RCAP) in August 2010.

RCAP is a competitive internal grant program designed to develop faculty members' individual research projects leading to the pursuit of external funding sources, and/or the promotion of scholarly and creative activities.

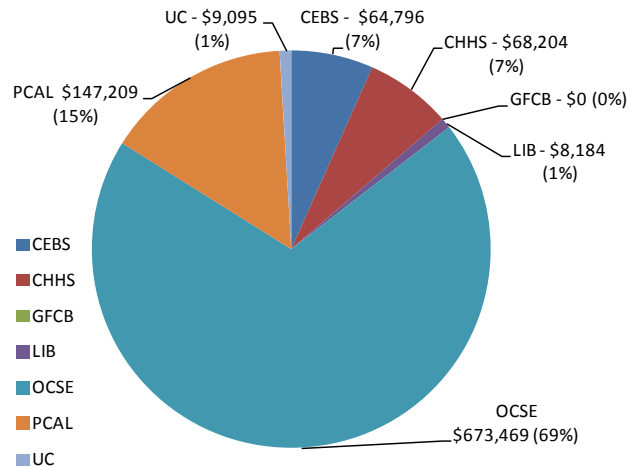
In 2010, eligible faculty applied for funding through three types of programs:

- RCAP Category I awarded up to \$20,000 per application with the stated objective of enhancing the competitiveness of a proposal for external grant funding.
- RCAP Category II awarded up to \$8,000 per application to support the general development, expansion, or enhancement of faculty research and scholarly activity.
- RCAP Category III awarded up to \$3,000 per application to support the creative and performing arts. (This category has since been subsumed under Category II.)

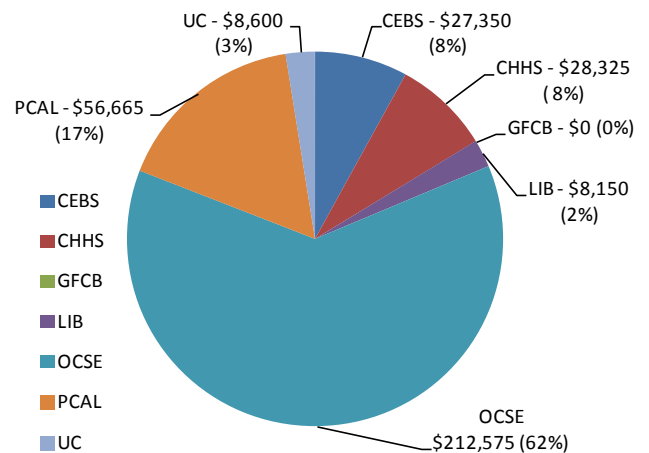
As one of the most anticipated and significant enhancements to WKU's research community, RCAP received over 80 applications from eligible faculty in its inaugural year. Over \$340,000 was awarded for projects ranging from an investigation into the causes of climate change affecting precipitation in Barbados to a study on the history of Kentucky's literary clubs.

Whether conducted locally or abroad, the scholarly activities supported by the Office of Research through the RCAP program all culminate to serve a greater purpose – to benefit the students of WKU and contribute to the quality of life.

2010 RCAP
Dollar Amount Requested by College
Total Requested – \$970,957



2010 RCAP
Dollar Amount Awarded by College
Total Amount Awarded – \$341,665



2010 Proposal and Award Numbers by RCAP Type & by College

Type	CEBS		CHHS		LIB		OCSE		PCAL		UC		Totals	
	# of Prop.	# Awarded	# of Prop.	# Awarded	# of Prop.	# Awarded	# of Prop.	# Awarded	# of Prop.	# Awarded	# of Prop.	# Awarded	# of Prop.	# Awarded
RCAP I			1	1			32	13	3	1			36	15
RCAP II	9	4	7	3	2	2	9	4	13	8	2	2	42	23
RCAP III									2	2	1	1	3	3
Totals	9	4	8	4	2	2	41	17	18	11	3	3	81	41

Faculty / Staff Awards

Fiscal Year 2010

External funding supports research, teaching, public service and creative activities initiated by faculty and staff at the university. The following faculty/staff received recognition for their efforts in submitting grant proposals and/or receiving awards from federal, state, local, private and international sponsoring agencies.

Most grant dollars awarded to a department:

Dr. Bruce Schulte, Department Head, Department of Biology \$3,775,410

Most grant dollars awarded to a college:

Dr. Blaine Ferrell, Dean, Ogden College of Science and Engineering (\$12,126,773)

Award Dollar Growth

College that received the highest percent increase in grant award dollars compared to the previous fiscal year:

Dr. Dennis George, Dean, University College

\$10 Million Club

Faculty / Staff with \$10 million or greater in awards throughout their WKU careers:

Dr. Wei-Ping Pan, Department of Chemistry and Director of ICSET

Dr. Blaine Ferrell, Ogden College of Science and Engineering

\$5 Million Club

Faculty/Staff with \$5 million or greater in awards throughout their WKU careers:

Linda Gaines, Director, Upward Bound

Inductees into the 1 Million Dollar Club

Dr. Keith Andrew, Department of Physics and Astronomy

Dr. Claire Rinehart, Department of Biology

Dr. Connie Jo Smith, Training & Technical Assistance Services

Largest dollar amount in a single grant award:

Dr. Claire Rinehart, Department of Biology, Ogden College of Science and Engineering (\$2,379,000)

Largest dollar amount awarded per college:

Adam Brownlee, College of Business

Dr. Roger Pankratz, College of Education and Behavioral Sciences

Lucy Juett, College of Health and Human Services

Dr. Claire Rinehart, Ogden College of Science and Engineering

Linda Gerofsky, Special Programs

Dr. John Hagaman, Potter College of Arts & Letters

Barbara Johnston, Community College

First-time grant recipients:

Dr. Kathleen Abrahamson, Department of Public Health

Chris Bierwirth, Kentucky Institute for International Studies

Dr. Ellen Bonaguro, Academic Advising & Retention

Dr. Raja Dakshinamurthy, Department of Chemistry

Dr. David Erbach, Department of Computer Science

Dr. Xingang Fan, Department of Geography and Geology

Dr. Danita Kelley, Department of Consumer & Family Sciences

Kerry Northrup, Journalism & Broadcasting

Rebekah Phillips, University College

Dr. Jason Polk, Department of Geography & Geology

Sgt. Ricky Powell, WKU Police Department

Dr. Darlene Shearer, Department of Public Health

Dr. Data Sullivan, Department of Social Work

Dr. John Wassom, Business Division, Commonwealth School

Dr. Patti Whetstone, School of Teacher Education

Faculty / Staff Awards

Fiscal Year 2011

Largest dollar amount in a single grant award:

Dr. Marce Verzaro-O'Brien, College of Education and Behavioral Sciences, Training and Technical Assistance Center
Dr. Andrew Ernst, Ogden College of Science and Engineering
Ms. Linda Gerofsky, Education Television Services
Ms. Lucy Juett, College of Health and Human Services, South Central Area Health Education Center
Dr. Dan Myers, Gordon Ford College of Business, Department of Economics
Mr. John Hagaman, Potter College of Arts & Letters, Department of English

Most grant dollars awarded to a department:

Dr. Marce Verzaro-O'Brien, Training and Technical Assistance Center

Most grant dollars awarded to a college:

Dr. Sam Evans, College of Education and Behavioral Sciences

Inductees into the 1 Million Dollar Club

Dr. Alexander Barzilov, Physics and Astronomy
Dr. Scott Bonham, Physics and Astronomy
Dr. Martha Day, School of Teacher Education
Dr. Denise Hardesty, Teacher Services
Dr. Wanda Weidemann, Mathematics

First-time grant recipients:

Ms. Chris Bixler, Small Business Development Center
Mr. Dale Brown, Academic Affairs
Dr. Craig Cobane, Honors College
Dr. Martha Day, School of Teacher Education
Dr. Julie Ellis, Department of Engineering
Ms. Sarah Gibbs, Student Disability Services
Ms. Nancy Givens, Center for Environmental and Sustainability
Dr. Darbi Haynes-Lawrence, Family and Consumer Sciences
Dr. Lynne Holland, Career Services
Dr. Mikhail Khenner, Mathematics and Computer Science
Qi Li, Computer Sciences
Ms. Kristie Lowry, Libraries
Dr. Eve Main, Nursing
Dr. Jason Polk, Geography and Geology
Dr. Bruce Schulte, Biology
Ms. Helen Siewers, Planning, Design & Construction
Dr. Steve Spencer, Kinesiology, Recreation & Sports
Dr. Ajay Srivastava, Biology
Dr. Beckie Stobaugh, School of Teacher Education

Office of Compliance

In November of 2011; the WKU IRB and the Office of Compliance were pleased to announce the adoption of the industry leading IRBNet suite of tools, bringing electronic protocol management, on-line submissions, and many other important features to the Western Kentucky University research community.

The WKU IRB and the Western Kentucky University research community have long recognized the need to reduce manual and paper-based procedures, streamline protocol submission and review processes, and leverage today's best technologies throughout the research lifecycle.

As an important step toward these objectives, the WKU IRB adoption of IRBNet now brings the Western Kentucky University community a robust set of electronic tools supporting the management, submission, review, and oversight of our research protocols.

Some of IRBNet's many features include electronic document management, web-based protocol sharing, collaboration, automatic notifications, electronic submissions, reviews, important audit capabilities (including electronic revision histories), electronic signatures, and event tracking.

Since June 1, 2009 over 1800 WKU faculty, staff, and students have completed research training within the Collaborative Institutional Training Initiative (CITI). WKU now offers training through CITI for Human subjects, Animal subjects, Responsible Conduct of Research, Biosafety, and Export Controls.

WKU IRB Research Protocols (by the numbers)

FY2008 -210

FY2009 – 255

FY2010 – 306

FY2011 – 315

FY2012 – another 6% increase over the first half

Significant Activities at the CRD

- The **NOVA Center** was built out and the Large Chamber Scanning Electron Microscope was installed.
- The **Confucius Institute** was temporarily housed in the Center until it moved to its permanent home on campus.
- **Hitcents**, one of the long-term tenants of the Center, received an incentive award from the Kentucky Economic Development Cabinet related to new jobs for the development of the Omniprise ERP software.
- Space was renovated to accommodate the **High Performance Computing System (HPCC)** and the Lost River Data Center, a joint venture with Bowling Green Municipal Utilities. The HPCC was installed and hooked up to utilities.
- **Pure Power Technologies**, a Small Business Accelerator tenant, agreed to keep their R&D facility in the CRD, and plans were started to renovate approximately 13,000 square feet of space to their requirements.
- **Douglas Rohrer** was hired in January as the Director of the Center and the Executive Director for the Central Region ICC. He was subsequently made Associate VP of R&D.
- The **Small Business Development Center** was relocated from Garrett Conference Center to the CRD and put under the supervision of Mr. Rohrer.
- The **“Bucks for Bright Ideas”** marketing program for the ICC was held February-April and was a major success, with over 130 entries and eight winners claiming almost \$30,000 in prizes.
- Planning started for renovation for a new **Advanced Materials Institute laboratory**, combining many pieces of test equipment scattered around various buildings at WKU into one space.
- Started planning for a **Telepresence facility** inside the CRD for use by the weekend MBA program and available for corporate users at other times
- Due to growth and high occupancy rates in the WKU Small Business Accelerator, planning started for a **second expansion of this area**, requiring more renovation of old space.
- **Additional renovation of common areas** and a glass wall entrance were accomplished, allowing for more public uses of this large area.
- A new **Farmer’s Market** was established on the CRD property.
- **New signage** was developed and installed on and around the facility to help guide visitors to the desired destination and make clear what facilities are located in the CRD.



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