

FUNDING NEWS & NOTES RECOGNITION ISSUE

Vol. XXII

James Madison University's
Office of Sponsored Programs

October 2008

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FY08 Quick Facts:

- 252 total awards
- 372 total submissions
- 135 faculty and staff investigators
- 68% success rate
- US Department of Education largest Funding Sponsor
- \$24,081,704 in Awards

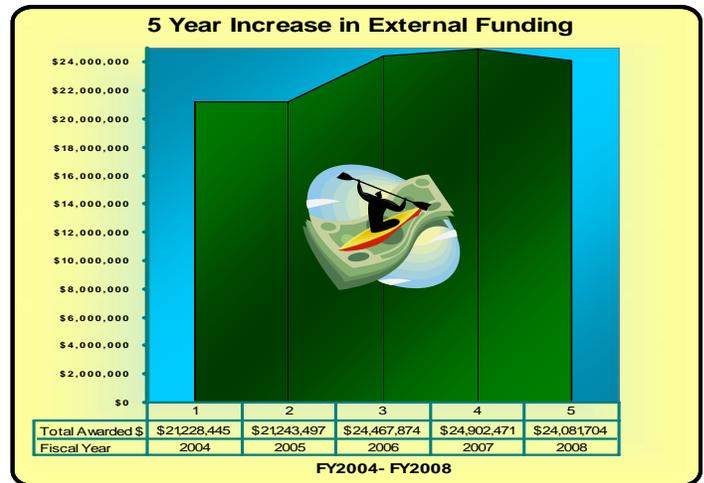
“Liberty and Learning; both best supported when leaning each on the other.”

~James Madison

JMU INVESTIGATORS SECURE FUNDING NEARING \$25 MILLION IN FY 08

Fiscal year 2008 (FY08) proved to be another successful year for James Madison University (JMU) in terms of externally sponsored activities. JMU faculty, students, and staff submitted a total of 372 proposals for external funding. During the same period, 252 funding applications were selected to receive external funding, which attained a 68% funding success rate. This should come as no surprise to the university community, as JMU has continued to excel in the area of sponsored programs over the past several years.

The focused efforts of over 135 faculty, staff, and students within the JMU community have brought in a total of \$24,081,704.25 in external funding during the period July 1, 2007 through June 30, 2008. Notably, involvement in the pursuit of external funding involves collaborations with increasing numbers of individuals,



jumping from 107 to 135 individuals, or an increase of 26%, in just one year's time.

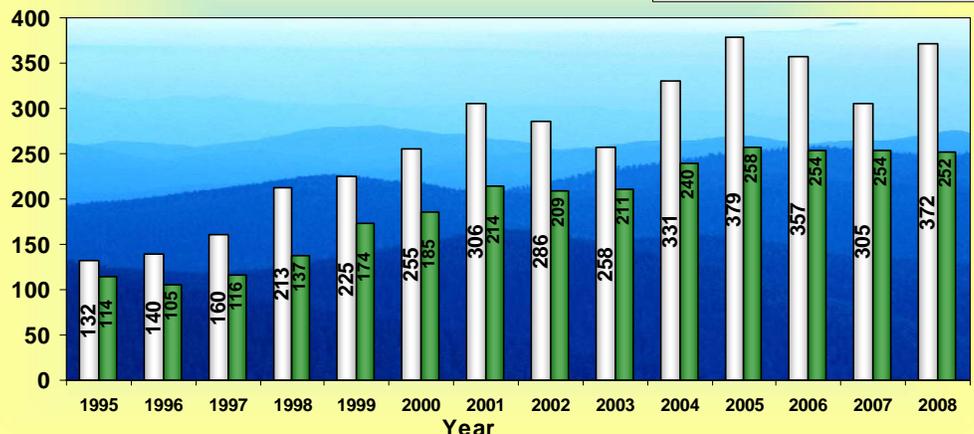
Since FY1995, JMU faculty and staff have submitted 3,719 funding applications and won 2,723 awards, earning \$209,627,179 towards research growth, education development, and public service operations. The university's

dramatic growth in sponsored project funding is a testament to JMU faculty and staff efforts to augment their resources for scholarly and creative endeavors. For the past three years, sponsored programs funding has remained level at just under \$25,000,000. ♦

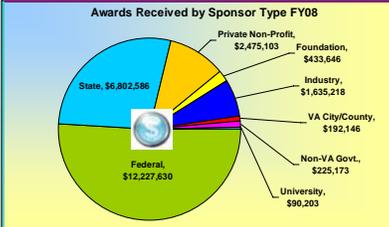
Proposals Submitted Vs. Awards by Fiscal Year

FY95-FY08

Submissions Awards



EXTERNAL FUNDING BY AGENCY TYPE



The faculty and staff at JMU received funding from a wide variety of external sponsors in FY08. This spectrum is indicative of the rigorous and creative process applicants must undergo in search of funding. The individual sectors include Federal, State, Private/Non-profit, Foundation, City/County, Industry, VA City/County, Non-Virginia Government, and University agencies.

Federal agencies remained the largest source of funding for grants, contracts, and cooperative agreements. Awards from the federal government totaled \$12,227,630, which comprises 51% of the total external funds received. The U.S. Department of Education ranked as the single largest federal sponsor in FY08, funding 25 projects and contributing \$4,024,125, or 33% of all federal funding and 17% of all external funding.

The total amount earned from state agencies was \$6,802,586, remaining a significant funding source of external funding for the university, and representing 28% of all awards. The Virginia Department of Education and the Virginia Department of Health comprised a large percentage of total state contributions.

Private and non-profit agencies provided 40 awards totaling \$1,620,228 in external funding in FY07. This year there were 56 awards totaling \$2,475,103. This is a 53% increase in this sector over the previous fiscal year and 11% of the total awarded amount for JMU in FY08.

External funding from Foundations provided 22 awards and a total of \$433,646.

Industry funding amounted to \$1,635,218 in FY08 versus \$1,303,465 in FY07, a 25% increase over the prior fiscal year. Though funding from the Industry sector represents only 6.8% of total sponsored funding received, it has steadily increased over the last several years and is becoming a significant source of funding as entrepreneurial PIs leverage collaboration with their business counterparts.

Finally, other external funding agencies such as University, City/County, and Non-Virginia government agencies awarded \$507,522 in FY08.

SPONSORED PROGRAMS AUGMENT RESOURCES ACROSS ALL DIVISIONS

In FY2008, the seven colleges and other divisions at JMU brought in \$24,081,704 in sponsored programs. During the past year, there was a substantial increase of 22% in the number of applications for external funding; up from 305 in FY07 to 372 in FY08.

During FY08, the combined efforts of approximately 135 faculty and staff received 252 awards, achieving a success rate of 68%. Records also indicate an increase in collaborative efforts on a multi-disciplinary level and inter-institutionally.

Awards obtained by JMU faculty and staff range in type, including research, public service/outreach, continuing education and instruction development, as well as equipment acquisition. This year saw an emergence of collaborative activity involving multidisciplinary projects, inter-institutional collaborations, and industry partnerships as researchers reached out to colleagues in other departments, sister institutions, and private funding sources to construct increasingly complex funding proposals. The variety of funding applications involving multiple disciplines is un-

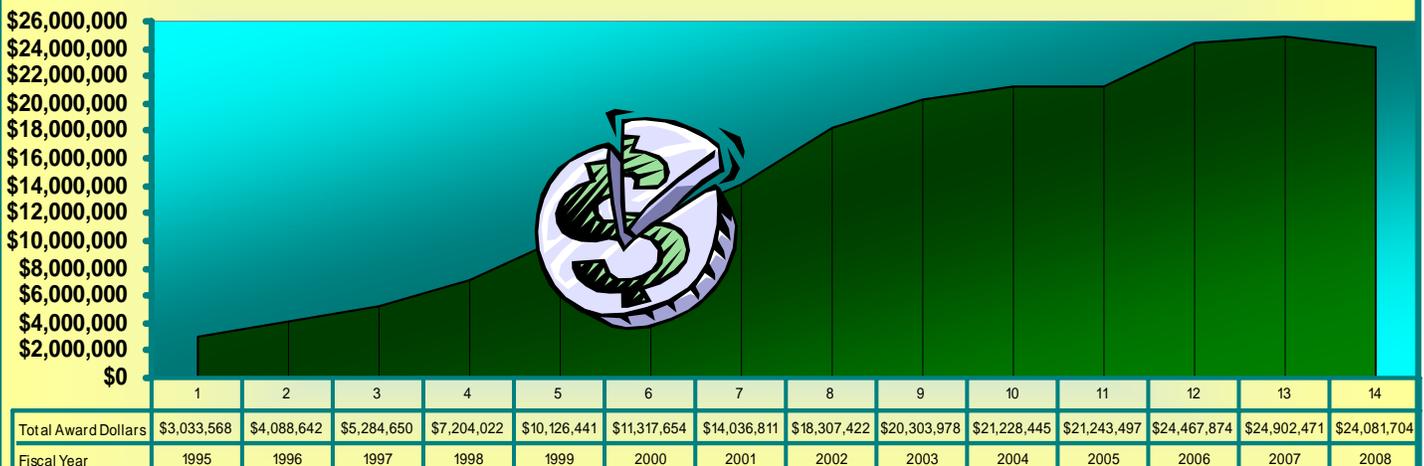
College or Division	Total Funding	Percentage of Total
College of Arts & Letters	\$668,498	2.78%
College of Business	\$823,035	3.42%
College of Education	\$1,342,005	5.57%
College of Integrated Science & Technology	\$9,415,098	39.10%
College of Science & Mathematics	\$2,569,795	10.67%
Academic Affairs	\$278,256	1.16%
Research & Public Service	\$1,493,594	6.20%
College of Graduate & Outreach Programs	\$1,763,952	7.32%
College of Visual & Performing Arts	\$19,362	.08%
All Other Divisions	\$5,708,111	23.70%

precedented.

In fourteen years, JMU has dramatically increased its sponsored funding. The chart below shows the total amount of sponsored funding JMU has received between FY95 and FY08. In 1995, faculty and staff brought in \$3,033,568 in external funding; just five years later in 2000, external funding had tripled with the

total amount of \$11,317,654. Within another five years, the faculty and staff in FY2005 once again nearly doubled JMU's sponsored programs earnings to total \$21,243,497. For the past three years, sponsored programs funding has remained level at just under \$25,000,000. ♦

14 Year Increase in External Funding



EXTERNAL FUNDING SUCCESSES—FY2008

Dr. Mohamed S. Aboutabl, Institute for Infrastructure and Information Assurance, received **\$2,500** from Engedi Technologies, Inc. for laboratory testing.

Ms. Emily K. Akerson, Institute for Innovation in Health and Human Services, received **\$35,000** from the Department of Social Services to provide in-home parenting education to parents; and **\$7,710** from the Valley Program for Aging Services, Inc. to improve community health through education and collaboration.



Dr. Brian H. Augustine, Chemistry, and **Dr. W. Christopher Hughes**, Physics & Astronomy, received **\$55,000** from the National Science Foundation to study the physico-chemical properties of surface modified polyhedral oligomeric silsesquioxane (POSS)-copolymer materials when exposed to plasma and chemical environments.



Dr. Sharon K. Babcock, Institute for Innovation in Health and Human Services, received **\$115,468** from Alpha Epsilon Delta to maintain the premedical honor society National Headquarters Office.



Dr. Steve J. Baedke, Geology and Environmental Science, received **\$31,675** from the U.S. Geological Survey to investigate and quantify groundwater and surface water interactions using groundwater modeling and aqueous geochemical techniques at localities around Lakes Huron and Michigan that contain strand plains of beach ridges and wetlands.

Dr. George H. Baker, Institute for Infrastructure and Information Assurance, received **\$103,615** from Defense Group, Inc. to perform Balanced Survivability Assessments as a subject matter expert in electromagnetic threats, effects, and protection; and a total of **\$87,076** from Science Applications International Corporation (SAIC) to assess methodologies to estimate risk for very low frequency but high consequence events and assess their utility for High Altitude Nuclear Electromagnetic Pulse (EMP) events.



Col. Dennis C. Barlow, Mine Action Information Center, received a total of **\$860,197**

from the U.S. Department of State to study Cambodian mine deterioration, for a mine action management course for international attendees, to articulate the setting where the Big Bang model will be used, gather, manage and distribute public information for the Office of Weapons Removal and Abatement programs, and minimize the number of unexploded ordnance related accidents in Jordan; **\$213,884** from the United States Institute of Peace to analyze data studying training and education for complex operations; **\$65,000** from the Department of Defense to develop literature related to humanitarian mine-action technology; **\$21,001** from the Geneva International Centre for Humanitarian Demining to maintain the Mine Action Standards website; **\$19,427** from the Office of Weapons Removal and Abatement to publish the publication "To Walk the Earth in Safety;" and **\$204,172** from the United Nations Office for Project Services (UNOPS) to provide a program of training that will improve the management capabilities available to mine action programs globally.



Dr. Morgan Benton, Integrated Science and Technology, received a total of **\$10,346** from the Department of Historic Resources for a historical highway marker website and database.

Dr. Thomas Benzing, Integrated Science and Technology, received **\$14,902** from the Department of Conservation and Recreation (DCR) to study the influence of two springs on sediment loading in Mossy Creek; and **\$80,000** from DCR to provide support to integrate local water quality issues into the larger effort to improve Bay water quality.

Dr. Cheryl L. Beverly, Exceptional Education, received **\$30,155** from the Virginia Department of Education to facilitate a General Membership and Early Childhood Special Education Providers Conference.



Dr. Amanda G. Biesecker, Integrated Science and Technology, received **\$1,250** from the Virginia Academy of Science to investigate a largemouth bass virus in healthy and diseased smallmouth bass from the Shenandoah River.



Dr. David F. Brakke, College of Science and Mathematics, received **\$75,000** from the USDA Forest Service to study fish and

turtle movements in aquatic ecosystems fragmented by forest roads.

Dr. Christie J. Brodrick, Integrated Science and Technology, received **\$79,617** from the Economic Development Commission to increase the understanding of health consequences of ozone reduction measures.

Dr. Laurie O. Cavey, Middle, Secondary, and Mathematics Education, and **Ms. Judy B. Kidd**, Mathematics & Statistics, received **\$44,497** from the Virginia Department of Education to collaborate with several K-12 Virginia mathematics and mathematics education communities in developing an Algebra I endorsement program for middle school teachers.

Dr. Young B. Choi, Computer Information Systems & Operations Management, received **\$20,000** from the Electronics & Telecommunications Research Institute in South Korea to investigate the effects of Mobile Web 2.0 on the American telecommunication market environment in the context of social network services.

Major C. Scott Coverstone and **Ms. Patricia A. Layman**, Police and Safety, received **\$11,934** from Rockingham County to improve the quality of criminal justice records in the regional central repository.



Ms. Penelope Critzer, Shenandoah Valley Child Development Clinic, received

\$89,402 from the Virginia Department of Education for educational programs at the Child Development Clinic; and **\$277,212** from the Virginia Department of Health to educational programs at the clinic.

Dr. Pauline K. Cushman, Integrated Science and Technology, and **Dr. Joseph D. Eneidy**, Center for Geographic Information Science, received **\$5,000** from the Virginia Geographic Alliance to tour the five physical regions of Virginia teaching the physical, human, economic, and historical geography of the Commonwealth.

Dr. Janet C. Daniel, Biology, received continuing support of **\$10,000** from the Jeffress Memorial Trust to characterize a novel role for the STP1 hexose transporter in osmotic regulation in the developing root.



Dr. Benjamin A. DeGraff, Chemistry, received **\$20,000** from the Camille & Henry Dreyfus Foundation to train students in synthesis molecular structure determination using multiple techniques, and evaluation of reporter characteristics using modern photo-physics.

Dr. Dorothy J. Della Noce, School of Communication Studies, received **\$4,028** from the Institute for the Study of Conflict Transformation, Inc. to direct the Institute for the Study of Conflict Transformation Consortium's knowledge creation and dissemination function.

Dr. Thomas C. DeVore, Chemistry, received **\$9,500** from the Academy of Applied Sciences for high school researchers to present their research at a university symposium; and **\$7,515** from the National Institute of Standards and Technology to provide a residential research experience to a JMU undergraduate working in the NIST laboratories.



Dr. Daniel M. Downey and Dr. Gina MacDonald Handal, Chemistry, received **\$102,526** from the National Science Foundation to provide research experiences for undergraduates in subdisciplines of biochemistry, synthesis, natural products, and spectroscopy; **\$41,768** from the Virginia Department of Environmental Quality to study chemical contaminants of anthropogenic origin in the Shenandoah River during episodic runoff events that may be contributing to the fish kills; and **\$10,000** from the USDA Forest Service to inventory water quality of forest streams and evaluate the effects of stream water chemistry on managing the forest plan.



Dr. Carol C. Dudding and Dr. Vicki A. Reed, Communication Sciences and Disorders, received **\$400,000** from the Virginia Department of Education for an ASHA accredited masters program in Communication Sciences and Disorders to increase the number of entry-level speech language pathologists in Virginia public schools; and **\$27,405** from the Virginia Department of Education to assess the feasibility of telepractice in speech language pathology curriculum.



Dr. L. Scott Eaton, Geology and Environmental Science, received **\$8,000** from the Virginia Department of Mines, Minerals and Energy to document surficial deposits and

landforms in the central Appalachians of Virginia.

David H. Ehrenpreis, School of Art and Art History, received **\$3,500** from the Arts Council of the Valley to install the "Square Word Calligraphy Project," an interactive exhibition by the celebrated Chinese artist Xu Bing in downtown Harrisonburg.

Dr. Steven W. Evans, Institute for Innovation in Health and Human Services, received a total of **\$192,421** from the National Institutes of Health to evaluate a set of psychosocial interventions for adolescents with attention-deficit/hyperactivity disorder (ADHD), and for a clinical trial to support a larger-scale evaluation and develop treatment fidelity measures; **\$2,000** from Eli Lilly & Company to sponsor an Attention Deficit/Hyperactivity Disorder conference; and **\$1,000** from Shire Pharmaceuticals, Inc. to organize an annual conference to further understanding of Attention Deficit Hyperactivity Disorder.



Ms. Jody C. Fagan, Libraries & Educational Technologies, received **\$3,000** from the American Library Association to support the development of the Research Databases & Resources web application.

Ms. Carol A. Fleming, Outreach Programs, received **\$1,500** from the Arts Council of the Valley to sponsor "Wolf Pack," six Wolf Trap artists' one-week residency in each of Harrisonburg's elementary schools.

Dr. Diane L. Foucar-Szocki, Learning, Technology, and Leadership Education, received a total of **\$703,974** from the Virginia Department of Education to serve ESL students, their families, and low-literacy native speakers currently enrolled in the school day program at Thomas Harrison Middle School, Waterman, Keister, and Stone Spring Elementary schools; **\$100,000** from the Merck Foundation for the Career Development Academy that serves Harrisonburg, and Rockingham County; and **\$25,000** from tuition payments for programming support of the Career Development Academy.



Dr. Steven P. Frysinger, Integrated Science and Technology, received **\$20,000** from the National Park Service to scan an extensive facility drawings library of the Shenandoah National Park into electronic form.



Dr. Joanne V. Gabbin, Furious Flower Poetry Center, received **\$1,000** from the Commonwealth Federal Credit Union (COFCU) to support the Furious Flower Summer Poetry Camp.

Ms. Kristin M. Gardner, University Health Center, received **\$8,000** from the Virginia Department of Health to initiate positive tobacco use control policy change throughout Virginia.

Dr. Clarence R. Geier, Sociology and Anthropology, received a total of **\$99,190** from Carmeuse Lime & Stone to conduct a Cultural Resource survey of the company's grounds in Middletown, Virginia; a total of **\$35,394** from the National Park Service to identify and document the archaeological features of Ellwood Plantation and define the nature and scope of the military engagement at Auburn; a total of **\$25,446** from the Shenandoah Valley Battlefields Foundation to discuss the Star Fort in the larger context of military actions in Winchester during the Civil War and to cultural remains on a land parcel; **\$10,329** from Belle Grove Inc.



to catalogue and interpret historic artifacts found between Old Hall and the ice house at Belle Grove Plantation and to archaeologically test and evaluate the property adjoining the historic Hall Complex; and **\$7,160** from the Frontier Culture Museum of Virginia to conduct a Phase I archaeological survey on the grounds of the museum.

Dr. John W. Gilje, Chemistry, received a departmental planning grant of **\$83,000** from the Research Corporation to integrate undergraduate research experiences into the Chemistry and Physics department curriculum.

Dr. Tammy D. Gilligan, Graduate Psychology, received a total of **\$103,000** from various public school systems in the state and region for student psychology internships.

Dr. Heather Griscom, Biology, received **\$20,000** from the USDA Forest Service to address the critical die-off of a hemlock strand and the resulting regenerating forest in a headwater system that will affect water temperature and brook trout populations; and continuing support of **\$10,000** from the Jeffress Memorial Trust to address the seedling performance of three dominant canopy tree species in manipulated forest gaps in the Shenandoah Valley.



Dr. Dawn M. Hachenski, School of Art and Art History, received **\$862** from the Department of Historic Resources to create high-quality digital files for the publication "Notes on Virginia."

Dr. J. Christine Harnes, Center for Assessment & Research Studies, received **\$53,000** from the National Council of State Boards of Nursing to investigate the levels of cognitive processing required for various types of innovative items and the degree to which examinees are able to remember.

Dr. Teresa T. Harris, Early Childhood Education, received **\$193,974** from the Virginia Department of Education for after school and summer programs to help ESL and low-literacy native speakers in elementary school to improve academic achievement.

Dr. William Hawk, Philosophy and Religion, received **\$5,590** from Hiroshima University to videotape lectures and send them to students.



Ms. Elizabeth Haworth, Furious Flower Poetry Center, received **\$500** from the Arts Council of the Valley to support a political satire performed through spoken word poetry, music, dance, comedy and acting; and **\$500** from the Community Foundation to promote the genre of African American poetry through the fourth annual free Summer Poetry Camp for Disadvantaged Children in Harrisonburg and Rockingham County.

Dr. Gregg Henriques, Department of Graduate Psychology, received a total of **\$20,000** from the Great Ape Trust to bring together scholars from across the academic spectrum to discuss the latest research in primatology and perspectives on human distinctiveness at the Visions of Integration II conference.

Dr. M. Hossain Heydari, Computer Science, received **\$56,321** from the Department of Defense to design and develop a lab-based Information Security Vulnerability Assessment course taught at three institutions; and with **Dr. Steven J. Greenwald**, Computer Science, received **\$15,000** from the National Security Agency to provide conference travel funds for New Security Paradigms Workshop participants.



Dr. Jane C. Hilton, Communication Sciences and Disorders, received **\$7,500** to provide an intensive summer intervention program for Rockingham County children diagnosed with autism and Pervasive Development Disorder.

Ms. Jane Hubbell, Institute for Innovation in Health and Human Services, received a total of **\$99,904** from the Virginia Department of Health to evaluate community-based youth suicide prevention programming; **\$269,031** from the US Department of Health and Human Services to reduce youth premarital sexual activities; a total of **\$251,104** from the Virginia Department of Education for education for children of migrant farm workers in collaboration with local schools; **\$62,000** in continuing support from the Claude Moore Charitable Foundation for respite care for

caregivers of children with disabilities; **\$42,000** from various local early education Centers for the Gus Bus to visit schools on a weekly basis to promote literacy; **\$33,000** from individual donor support of the Gus Bus program needs; **\$38,047** from the Community Resource Center to develop and maintain agency programs; **\$28,807** from the Central Shenandoah Health District to decrease non-marital birth rates; **\$24,910** from the Harrisonburg Redevelopment and Housing Authority for a resource center to help people find needed services; and a total of **\$12,331** from Rockingham Memorial Hospital to support the local Youth Data Survey and decrease the number of non-marital births among teens and young adults; **\$6,228** from Crossroads to Brain Injury Recovery Inc. for services to individuals afflicted by brain injuries; **\$5,400** from the Rockingham Free Clinic for administrative services; and **\$664,619**, with **Mr. Chris B. Nye**, also of the IHHS, from the Virginia Department of Health to provide primary medical care, medications, dental care, case management, transportation, nutritional supplements/food, substance abuse, and mental health services for those affected by HIV.



Dr. David K. Jeffrey, Arts and Letters, received **\$50,000** from the American-Israeli Cooperative Enterprise to support a visiting Israeli professor for the Foreign Language and Literature Department.

Dr. Elizabeth A. Johnson, Geology and Environmental Science, received a total of **\$25,606** from UCLA to fund undergraduate researchers with National Science Foundation support to prepare samples for infrared spectroscopic analysis and to learn about the oxidation state of the Roseland Anorthosite, VA, using measurements of structural hydroxyl in the mineral rutile.

Dr. Ronald G. Kander, School of Engineering, and **Mr. Dwight Dart**, Integrated Science and

Technology, received **\$77,684** from the National Science Foundation to produce plastic snap-together cell parts for biological demonstrations.



Ms. Judy B. Kidd, Mathematics and Statistics, received **\$50,455** from the

Virginia Department of Education to teach improved mathematical concepts to middle school math teachers.

Ms. Susan F. Lamb, WMRA/Center for Public Broadcasting, received **\$178,780** from the Corporation for Public Broadcasting for broadcasting services; and a total of **\$172,181** from the Virginia Public Broadcasting Board to provide noncommercial, informational, or cultural audio programs to help print-disabled individuals.

Dr. Stephen A. Leslie, Geology and Environmental Science, received **\$43,238** from the National Science Foundation (NSF) to integrate graptolites and bentonites in the successions with the conodont biozonations to achieve higher resolution and use it towards the advancement of CONOP in the Chronos System;

\$48,000 from the NSF to study carbon cycling on geological timescales to develop a societal perspective of the magnitude and impact of human-induced climate change; and **\$15,264** from the American Chemical Society Petroleum Research Fund to collect geological samples for microfossils, to identify species, and conduct biostratigraphic analysis.



Dr. Reid J. Linn, College of Graduate and Outreach Programs, along with **Ms. Cheryl L. Henderson**, and **Ms. Melinda B. Bright**, of the Region 5 Training & Technical Assistance Center, received **\$1,763,952** from the Virginia Department of Education to support state and local activities for youth with disabilities through activities of the T-TAC.

Dr. Gina MacDonald Handal, Chemistry, received **\$5,500** from the Camille & Henry Dreyfus Foundation, Inc. to fund an undergraduate student to carry out chemistry research as a faculty mentor.



Dr. Jeanne M. Martino-McAllister, Health Sciences, received **\$1,000** from the Prevention Research Center to evaluate the extent which an online alcohol prevention

program reduces student alcohol consumption and risky behaviors.

Dr. Merle E. Mast, Nursing, received **\$50,000** from the Virginia Department for the Aging to assess the needs of caregivers of people with Alzheimer's and tailor services to this group; and **\$37,079** from the Harrisonburg Community Health Center to provide care for clients at the Harrisonburg Community Health Center by JMU Nurse Practitioners.

Dr. Lisa M. Maynard, School of Music, received a total of **\$12,500** from the National String Project Consortium to create assistantships for undergraduate String Music Education majors to gain real-life teaching experiences while offering string instrument lessons to local school-age students.

Dr. Robert L. McKown, Integrated Science and Technology, received **\$63,788** from the National Institutes of Health to optimize lacritin's cyroprotective activity and understand its mechanism of action; **\$80,000** from the National Institutes of Health to research, develop, and analyze variations of lacritin constructs suitable for commercial therapeutic use; and with **Dr. Kyle N. Seifert**, Biology, received **\$78,426** from the Commonwealth Health Research Board to develop the first clinical immunoassay for human tear lacritin and pursue the development of recombinant lacritin as a novel therapeutic for wound healing and the treatment of ocular diseases.



Dr. Julia M. Merkel, Carrier Library and Educational Technologies, received **\$5,000** from the National Endowment for the Humanities for a re-housing project for James Madison University's Special Collections.

Dr. Jonathan J. Miles, Integrated Science and Technology, received **\$150,000** from the Virginia Coastal Energy Research Consortium (VCERC) to support renewable energy production from offshore winds; **\$71,149** from the US Department of Energy to promote wind energy and provide technical support to state-based wind working groups under the Wind Powering America Programs; **\$19,800** from the National Science Foundation to plan and initiate an interdisciplinary, collaborative research project entitled "Land Use Considerations and Siting Assessments for Renewable Energy Facilities" between faculty members from JMU and the University of Malta; and **\$7,000** from the U.S. Department of Energy to support the develop-



ment of model working relationships and tools between environmental groups and wind energy proponents to promote dialogue and common understanding concerning the environmental issues relating to wind energy development in the Commonwealth and across the region.

Dr. Kevin P. Minbiole, Chemistry, received **\$25,000** from the Jeffress Memorial Trust to study the complex relationship of mutualistic symbionts and microbial ecology and develop new strategies in amphibian conservation; and **\$826** from Dupont Crop Protection to synthesize biological natural products to evaluate properties useful for agricultural and horticultural crop protection agents.

Dr. Jonathan D. Monroe, Biology, received **\$25,000** from the Jeffress Memorial Trust to determine the subcellular localization and tissue distribution of all nine Arabidopsis B-amylases and to understand the role of B-amylase in starch degradation throughout plants.

Ms. Carole Nash, with **Dr. Helmut Kraenzle**, Geographic Science Program, received **\$6,064** from the Wintergreen Nature Foundation to document systematic surface collection and general subsurface testing of archaeological sites and to map the site locations with GPS and produce GIS images.



Dr. M. Ioana Niculescu and **Dr. Gabriel Niculescu**, Physics & Astronomy, received **\$116,000** from the National Science Foundation to improve the existing High Momentum Spectrometer and provide a new Super High Momentum Spectrometer capable of analyzing higher energy particles; **\$10,626**, from the Fermi National Accelerator Laboratory to participate in the research and development of the MINERvA Detector; and with **Dr. Gabriel Niculescu** and **Dr. Kevin L. Giovanetti**, Physics & Astronomy, received **\$108,963** from the National Science Foundation to continue exploration of hadron structure physics.

Dr. John B. Noftsinger, Institute for Infrastructure and Information Assurance, with **Dr. Malcom Lane** and **Dr. Ronald G. Kander**, received **\$992,284** from the National Institute of Standards and Technology to continue the study of critical infrastructure protection and to test new concepts in resiliency, disaster recovery, and response; and with **Mr. Kenneth F. Newbold, Jr.**, Research and Public Ser-



vice, received **\$1,162,776** from I2, Inc. for a Visual Investigative Analysis Software License; with **Mr. Kenneth F. Newbold, Jr.**, received **\$508,290** from the U.S. Department of Defense to strengthen security professionals' counterfactual reasoning and produce practical benefits in the areas of data collection and data fusion; with **Mr. Robin Sullenberger**, received **\$205,860** from the Shenandoah Valley Partnership to provide quality economic development services; and a total of **\$48,458** from the Shenandoah Valley Technology Council to support the SVTC, which serves as an advocate for developing the technological and workforce development infrastructure required to support technology-related industries in the region.

Mr. Christopher B. Nye, Institute for Innovation in Health and Human Services, received **\$546,952** from the Department of Mental Health, Mental Retardation, and Substance Abuse for support of the Infant Toddler Connection, a local system of early intervention services; a total of **\$150,940** from Virginia Commonwealth University for the Facts and Fundamentals Program for healthcare learners, to promote health careers and access to primary care for medically underserved populations, and to help the Medicaid population through medical residents' clinical rotations in rural settings; a total of **\$26,000** from Rockingham Memorial Hospital for primary medical services for the uninsured or underinsured and Medicaid populations and to train health interpreters; a total of

\$781,723 from the Virginia Department of Health for medical care services for the HIV



Consortium, administrator support for the Medical Interpreter Training Grants Program, to integrate trained Community Health Workers (CHW) into the regional network and expand outreach programming; to work with the Home Visiting Consortium to support home visitors working with families with children 0-5 years old; **\$45,345** from Harrisonburg-Rockingham Community Services Board for interpretation services to non-



English speaking clients; **\$353,569** from the Harrisonburg-

Rockingham Free Clinic for uninsured outpatient services; **\$476,461** from the Harrisonburg Community Health Center to open a Community Health Center for Harrisonburg and the surrounding area; **\$1,748** from the First Presbyterian Church to support interpreter services; **\$102,041** from the Valley Aids Network for educational and health administrative services; **\$12,000** from individual donors to offer interpreter training

classes; **\$5,000** from the Page County Department of Social Services to promote positive parenting, health, and child development; and **\$500** from Giant Food Stores, LLC to help eradicate hunger and improve the quality of life for children.



Dr. Susan B. Nye, Kinesiology, received **\$62,254** from the U.S. Department of Education to provide professional development opportunities for Rockbridge County school teachers.

Dr. Cynthia R. O'Donoghue, Communication Sciences and Disorders, received **\$30,475** from the Virginia Department of Education for a seminar on the importance of collaboration between medical providers and schools, and to study medical findings relative to swallowing to be addressed by the school team.



Dr. Maria C. Papadakis, Integrated Science and Technology, received **\$75,000** from the Virginia Department of Mines, Minerals, and Energy to support the development of wind power in Virginia on-shore, offshore, and on a large and small community scale through a three year strategic plan; and **\$834** from the Shenandoah Valley Resource Conservation and Development Center to analyze energy savings of a new, dimmable, compact fluorescent lighting system in a poultry house.



Dr. Amy L. Paugh, Sociology and Anthropology, received **\$50,400** from the National Endowment for the Humanities to examine linguistic practices, language ideologies, children's play and agency, and social reproduction and change in Dominica.

Dr. Scott A. Paulson, Physics & Astronomy, received **\$60,000** from the National Science Foundation to investigate friction via correlations between force measurements and atomic scale study of relative motion between layers of atoms.

Ms. Brianna Quinn, Exceptional Education, received **\$24,405** from the Virginia Department of Education to develop and implement a statewide program to meet the initial and continuing education needs for teachers of students with visual impairments in the Commonwealth of Virginia.

Dr. Vicki A. Reed, Communication Sciences and Disorders, received **\$45,500** from the Scottish Rite Foundation of Virginia for the JMU-Scottish Rite Language Disorders Clinic; and **\$7,500** from Rockingham County Public

Schools for intensive communication intervention for children diagnosed with Autism or Pervasive Developmental Disorder; and a total of **\$3,000** from individual donors to provide communication intervention services for children with Autism.



Mr. Henry A. Reeves, Small Business Development Center, received **\$10,000** from the City of Harrisonburg and a total of **\$409,775** from the U.S. Small Business Administration to serve as a business and economic information focal point for small businesses.

Dr. Robert D. Reid, Institute of Certified Professional Managers, received **\$230,000** from the Institute of Certified Professional Managers to maintain the organization's national headquarters on the JMU campus.

Dr. Terrie K. Rife and Jonathan D. Monroe, Biology, received **\$95,387** from the National Science Foundation for twelve students to do independent research one-on-one with experienced faculty mentors, expose them to ethical issues in science and practice communicating scientific ideas; and with **Dr. Cheryl P. Talley** received **\$45,000** from the Commonwealth Health Research Board to continue research to lead to a better understanding of why obese individuals are more susceptible than the normal population to the development of type-2 diabetes.



Dr. Judith T. Rocchiccioli, Nursing, received **\$14,038** from the U.S. Department of Health and Human Services for traineeships for 27 full time and 11 part time graduate nursing students.

Dr. J. Barkley Rosser, Jr., Economics, received a total of **\$66,856** from the Journal of Economic Behavior and Organization for editorial services.

Dr. Joseph W. Rudmin, Physics & Astronomy, received **\$4,200** from the National Institute of Standards and Technology to provide a residential research experience to a JMU undergraduate working in the NIST laboratories.



Dr. Michael J. Saunders, Kinesiology, received **\$100,930** from the DSM Nutritional Products, Inc. to study how an aqueous olive pulp extract affects oxidative damage, inflammation, and post-exercise muscle



damage, soreness, and recovery; **\$28,262** from Cadbury Schweppes to test endurance performance when subjects consume a CHO+P beverage versus a CHO-only beverage; and **\$27,043** from DMI Dairy Management, Inc. to test the effectiveness of chocolate milk as an exercise recovery beverage during intense training in competitive soccer players.

Dr. Katherine A. Schwartz, School of Art and Art History, received **\$2,500** from the Arts Council of the Valley to teach students to create and make informed judgments about works of art.

Dr. Sean T. Scully, Physics & Astronomy, received continuing support of **\$10,000** from the Jeffress Memorial Trust to determine the signatures of the competing proposed models to improve cosmic ray data.

Dr. Brenda C. Seal, Communication Sciences and Disorders, received **\$25,249** from the Virginia Department of Education for a 3-credit course on educational interpreting and new instructional DVD.

Dr. Kyle N. Seifert, Biology, received continuing support of **\$10,000** from the Jeffress Memorial Trust to focus on the roles of *ssr-2* and accessory secretory genes on the pathogenesis of the highly virulent lineage of serotype III GBS.

Dr. Zewelanj N. Serpell, Psychology, received **\$18,231** from Virginia Commonwealth University to assess the impact of receiving Attention Deficit/Hyperactivity Disorder (ADHD) treatment during the middle school years on risk factors for smoking and tobacco use among adolescents with ADHD.

Dr. James M. Shaeffer, Outreach Programs, received **\$75,000** from the New College Institute to develop, provide, and administer an undergraduate adult degree program leading to a Bachelor's Degree from JMU, with course instruction being provided on-site and through distance technologies at the offices of the New College Institute.



Dr. Michelle A. Smith-Bermis, English, received **\$30,000** from the Woodrow Wilson National Fellowship Foundation to understand the social and cultural processes by which collective identities, especially post-and trans-national configurations, have been theorized and represented in both the "postcolonial" moment

and in the nascent 21st century paradigm.

Dr. Kristin E. St. John, Geology and Environmental Science, received **\$173,671** from the National Science Foundation to develop teaching materials designed to cover the key concepts surrounding the use of ocean sediment cores for interpretation of past climate changes, and new core data interpretations from Arctic and Antarctic drilling expeditions that provide evidence of rapid and cyclic Cenozoic climate change.

Dr. Lee G. Sternberger, International Programs, received **\$1,000** from the University of Minnesota to assist with a survey; and **\$900** from the Department of State for a hands-on professional development for advising practitioners in the U.S. to build on training they have received in their country or region.

Ms. Lynne F. Stover, Center for Economic Education, received **\$6,687** from the National Council on Economic Education to conduct teacher-training workshops.



Ms. Sharon L. Strang, Nursing, received **\$35,231** from the Merck Foundation to empower people with chronic illnesses to manage their disease and maximize quality of life.



Col. Nick D. Swayne, College of Education, received **\$10,000** from the Dominion Foundation to operate regional and state tournaments for the Virginia FIRST LEGO league; and **\$210,000** from the State Council of Higher Education for Virginia (SCHEV) to improve teacher quality in science, technology, math content knowledge, and pedagogical skills.



Dr. Cheryl P. Talley, Psychology, received **\$675** from the Rockingham Memorial Hospital to conduct a hypnotherapy-smoking seminar.

Dr. Wayne S. Teel, Integrated Science and Technology, received **\$6,062** from the Environmental Protection Agency to support two undergraduate researchers to create a sustainable water pumping and irrigation system for the Namawanga Community in western Kenya; and **\$5,542** from the Environmental Protection Agency to assess the effects of airborne nitrogen compounds and chemical contaminants on the BAY ecosystem and help establish reduction goals for these contaminants.



Dr. Louise M. Temple, ISAT, received **\$183,458** from the National Institutes of Health to define and explore the constellation of virulence factors of *B. pertussis* and to develop tissue and/or organ culture models for studying toxicity of *B. avium*; and with Co-PI's **Dr. Steven G. Cresawn**, **Dr. Ronald W. Raab**, and **Dr. Amanda G. Biesecker**, was awarded support for the Phage Genomics Research Initiative (PGRI) by the Howard



Hughes Medical Institute to offer a freshmen-oriented PGRI course to study phage discovery and genomics components.

Dr. Anthony L. Tongen and **Dr. Roger J. Thelwell**, Mathematics and Statistics, received **\$24,191** from the Mathematical Association of America to gain lab experience understanding the uncertainty and difficulty in data collection and the mathematical problem being studied.



Dr. Leonard A. VanWyk, Mathematics and Statistics, received a total of **\$51,580** from the National Science Foundation to give students diverse mathematical research experiences.



Dr. Brian D. Walton, Mathematics and Statistics, along with Co-PI's **Dr. Hasan Hamden**, **Dr. Reid N. Harris**, **Dr. Nusrat Jahan**, **Dr. Kyle N. Seifert**, **Dr. Louise Temple**, **Dr. Anthony L. Tongen**, and **Dr. Roshna E. Wunderlich**, received **\$700,000** from the National Science Foundation to support long term interdisciplinary research experiences for undergraduates; and **\$7,613**, with **Dr. Anthony L. Tongen**, Mathematics and Statistics, from the Center for Undergraduate Research in Mathematics (CURM) to involve undergraduate students in a jointly-mentored research group.

Dr. Christopher R. Watts, Communication Sciences and Disorders, received **\$23,500** from the Jeffress Memorial Trust to study the role of the elastin gene (ELN) on vocal fold development on the ELN knockout mouse.

Dr. C. Steven Whisnant, Physics & Astronomy, received **\$74,284** from the National Science Foundation to study nucleon resonance properties through Compton scattering and the production of mesons using polarized beams and targets.

Dr. Steven J. Whitmeyer, Geology and Environmental Science, received **\$27,696** from

the National Science Foundation to embed digital map data, geophysical survey results, and tectonic data from existing paper maps into 4-dimensional virtual globe models; **\$15,500** from the U.S. Geological Survey to produce geologic maps and cross sections of the western half of the Big Meadows 7.5' quadrangle that represent the Stanley fault; and **\$8,676** from the Virginia Department of Mines, Minerals and Energy to map the geology of the Stanley 7.5' quadrangle and support students researching the quadrangle.



Dr. Jacqueline A. Williams, Kinesiology and Recreation Studies, received **\$42,000** from the Virginia Department of Education to provide funding for a health and physical education summer institute.

Mr. William R. Wilson, Madison Institutes, received **\$181,806** from the Center for Civic Education for the National We The People Institute; and **\$30,550** from the Center for Civic Education to increase understanding of the constitutional institutions of American democracy and the fundamental principles and values upon which they are founded, the skills to participate as effective and responsible citizens, and the willingness to use democratic procedures for making decisions and managing conflict.

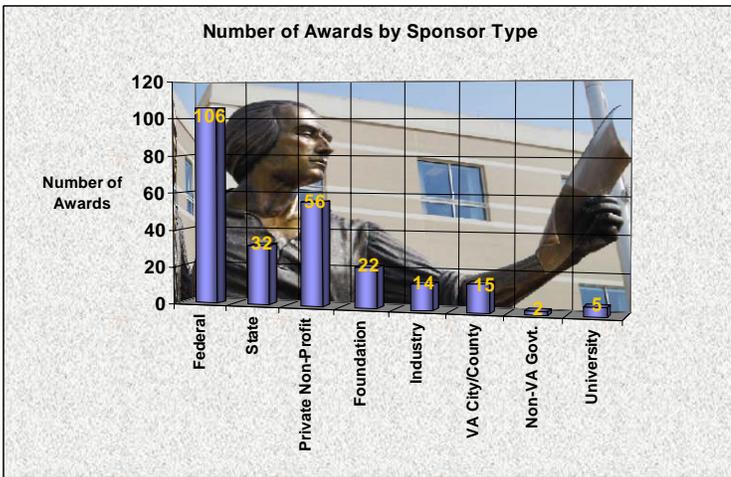


Dr. William C. Wood, Center for Economic Education, received **\$77,237** from Shenandoah Valley Economic Education, Inc. to provide Harrisonburg and Rockingham County school systems with economic teacher consultation, training, and assistance with materials.

Dr. Roshna E. Wunderlich with **Dr. Kenneth E. Roth**, Biology, received **\$80,220** from the Commonwealth Health Research Board to provide insight into the etiology of sports injuries through a multidisciplinary examination of the relationships among hormonal fluctuations, ligament laxity, foot load distribution, and footwear to solve the problem of overuse injuries in men and women.

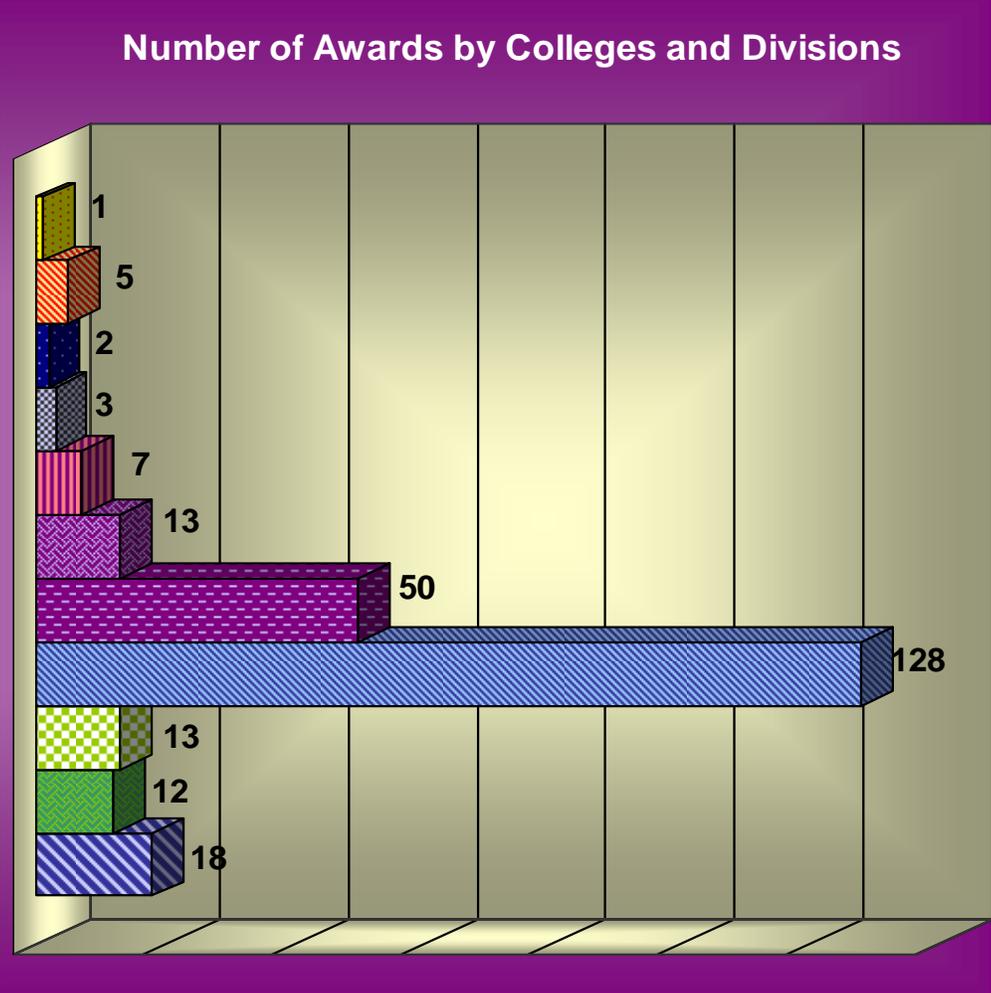
Dr. Grace A. Wyngaard, Biology, received **\$31,100** from the National Science Foundation to support attendance of researchers at a workshop held at the World Association of Copepodologists meeting in Pattaya, Thailand to collaborate on a variety of genomics research.





“Research is an important component of the James Madison University of the 21st century. Here we integrate research with teaching and service. We conduct research for the good of the student body and for society at large, not solely for the benefit of the researcher.”
 - *Linwood H. Rose, President*

- All Other Divisions
- ▨ College of Visual and Performing Arts
- College of Graduate and Outreach Programs
- ▨ Administration and Finance
- ▨ Research and Public Service
- ▨ Academic Affairs
- ▨ College of Science and Mathematics
- ▨ College of Integrated Science & Technology
- ▨ College of Education
- ▨ College of Business
- ▨ College of Arts and Letters



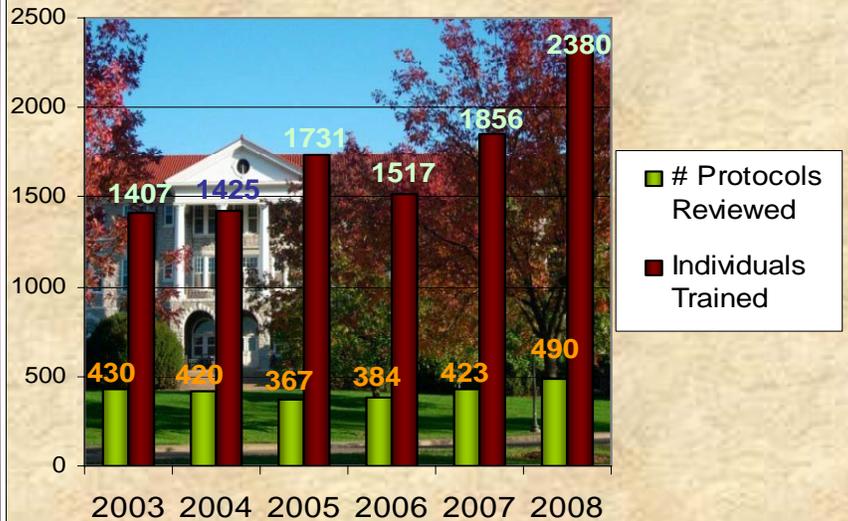
The *College of Arts and Letters* received 18 awards. The *College of Integrated Science and Technology (CISAT)* earned 128 awards. CISAT’s external awards represent 39% of the total funding received for the year. The *College of Science and Mathematics* obtained 50 awards. The *College of Education* brought 13 total awards during FY08. *College of Business* investigators earned 12 awards. The *College of Graduate & Outreach Programs* brought in 2 awards. *Research and Public Service* had 7 awards. The *College of Visual & Performing Arts* received 5 awards. *Academic Affairs* had 13 awards, while all other departments and divisions, including *Administration & Finance*, and *Student Affairs* contributed 4 awards during FY08.

Compliance Corner

The Office of Sponsored Programs (OSP) coordinates training and documentation of all human subjects research and activity at the university. The Institutional Research Board (IRB) is responsible for ensuring compliance with all federal and state regulations regarding research with human subjects. During FY2008, OSP administered the review, editing, distribution, and approval process of 490 Human Research protocols and trained 2,380 investigators in the responsible and ethical conduct of human research. The chart at right shows the dramatic increase in IRB activity at the university over the past 5 years. ♦

Institutional Research Board (IRB)

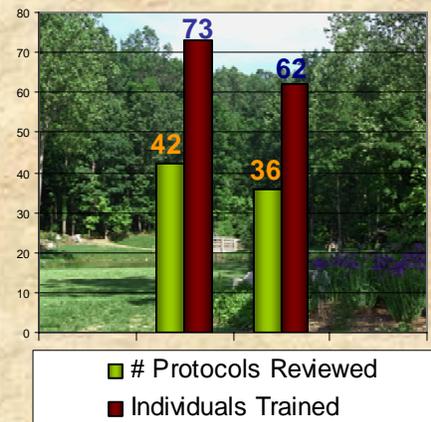
6 Year Activity for Institutional Review Board



Institutional Animal Care & Use Committee (IACUC)

The OSP also coordinates all institutional animal care and use (IACUC) activity and laboratory inspections at the university to ensure federal animal care and use regulations are observed in animal laboratories. During FY08, training was provided for 62 investigators and individuals in humane care and use of animals in research, and 36 protocols were reviewed. During the same period in FY07, 73 investigators were trained and 42 protocols were reviewed. The OSP also provides the Annual Report to the Office of Laboratory Animal Welfare (OLAW) to comply with internal and external regulatory policies. ♦

2 Year Activity for Animal Care and Use Committee



James Madison University Office of Sponsored Programs



The OSP homepage can be accessed at the following URL:

www.jmu.edu/sponsprog/

For details on other aspects of sponsored programs, contact

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