

FUNDING NEWS & NOTES RECOGNITION ISSUE

Vol. XXI

James Madison University's
Office of Sponsored Programs

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FY07 Quick Facts:

- 254 total awards
- 305 total submissions
- 107 faculty and staff investigators
- 83% success rate
- US Department of Education largest Funding Sponsor
- \$24,902,471 earned

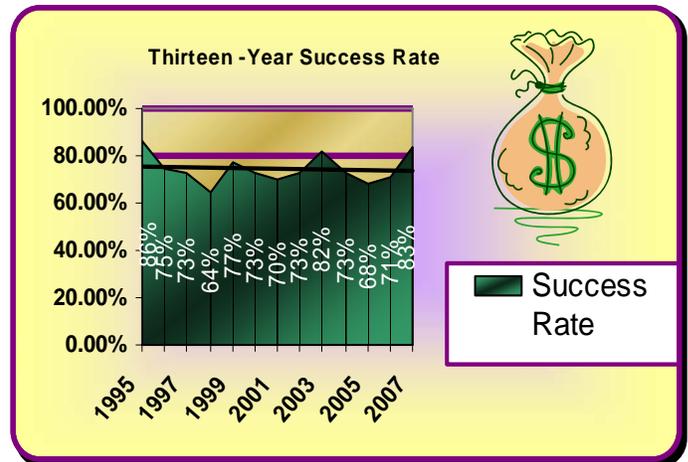
"A well-instructed people alone can be permanently a free people."
~James Madison

FUNDING SUCCESS RATE SOARS

During fiscal year 2007, James Madison University (JMU) faculty and staff improved on an already impressive success rate by earning 254 sponsored awards and obtaining a funding success rate of 83%, a notable increase over the FY06 success rate of 71%.

The chart to the right depicts the success rate of the JMU faculty and staff over the past thirteen years. JMU's Principal Investigators (PI's) have an excellent and sustained record of competing for and acquiring external funds to conduct their research and scholarly endeavors.

Because of the efforts of JMU's dedicated faculty and staff to obtain outside funding, FY07 has surpassed all previous years in terms of the total awarded dollars for externally sponsored projects at the institution, for the first time approaching the \$25 million mark. During FY07, approximately 107 faculty and staff conducted awarded

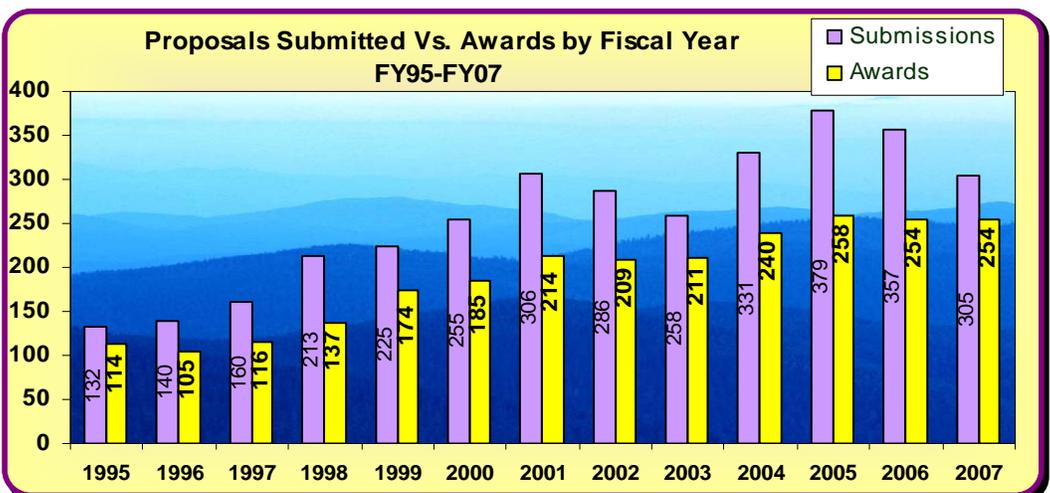


sponsored projects involving research, instruction, public service, and other scholarly activities contributing to the creation of programs of distinction.

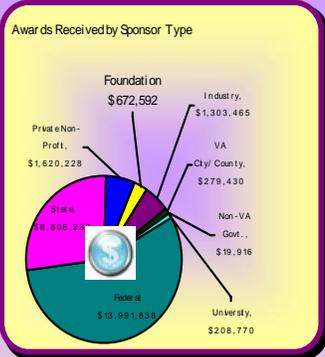
Over the past thirteen years, JMU faculty and staff have submitted over 3,300 funding applications and won 2,471 awards, earning approximately \$185,545,745 towards research, education, and public service activities. This

remarkable success rate also enables the purchase of laboratory equipment, funding of conferences, and provision of unique educational experiences for all students at JMU.

The university's dramatic growth in sponsored project funding is attributable entirely to faculty and staff efforts to augment their resources for scholarly and creative endeavors. ♦



EXTERNAL FUNDING BY AGENCY TYPE



The faculty and staff at JMU received funding from a wide variety of external sponsors in FY07. 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.

The largest percentage of funding, or 56%, came from Federal agencies. The US Department of Education was the source of 26% of all Federal funding received at \$3.6 million.

The total amount earned from State agencies was \$6,806,232 or 27% of all FY07 awards.

Private and non-profit agencies awarded \$1,620,228 in external funding in FY07. This is a 58% decrease over FY06 levels and a \$2.2 million decrease over last year's statistics.

External funding from Foundations increased 161% over FY06 for a total of \$672,592.

External awards from the Industry sector equaled \$1,303,465 or 5.23% of the total amount earned.

Finally, other external funding agencies such as University, City/county, and Non-Virginia government agencies awarded \$508,116 in FY07.

The pie chart at the top of the column demonstrates the percentage earned by the JMU faculty and staff from each type of funding agency.

JMU FACULTY AND STAFF AUGMENT PROGRAMS BY NEARLY \$25 MILLION IN FY2007

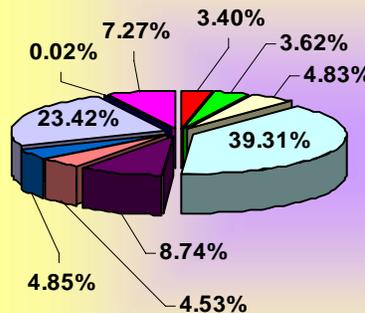
In one year alone, the seven colleges and other divisions at JMU brought in \$24,902,471 in sponsored programs, a 2% increase over FY2006 levels. Federal agencies account for 56% of this total, while State sources contributed 27%. This year's external funding amounts continue a growth trend over the last thirteen years. For more detail, see the chart at the bottom of this page.

The awards obtained by JMU faculty and staff fall into several different categories, including research, public service/outreach, continuing education and instruction development, as well as equipment acquisition. The time and effort invested by the PI's involved in sponsored projects provide benefits to every aspect of an academic community.

Each sponsored project enriches and diversifies the learning environment supporting projects that actively involve undergraduate and graduate students in research and activities in a variety of disciplines and expose students to important aspects of science.

The College of Arts and

Colleges & Divisions Awards FY07



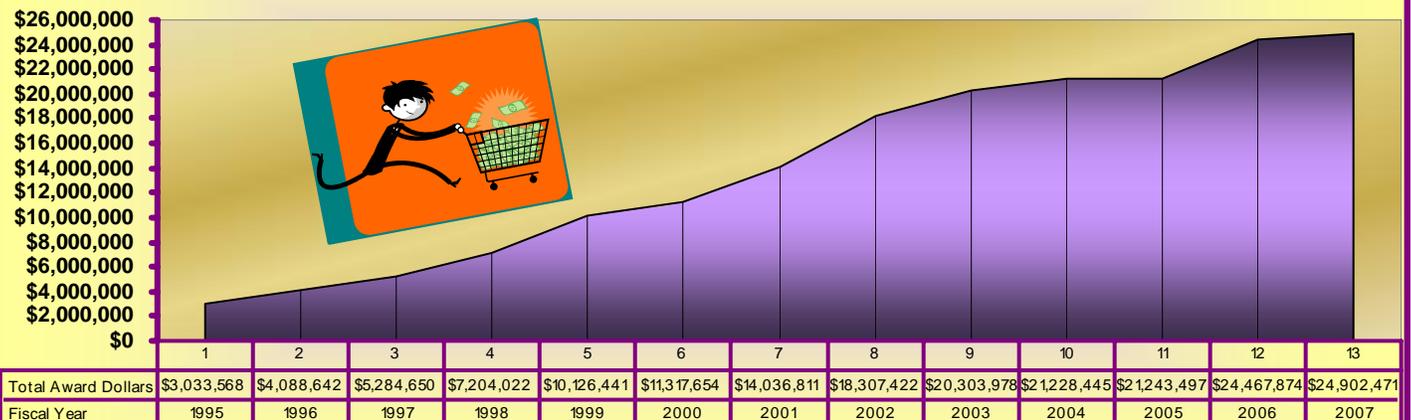
- College of Arts and Letters
- College of Business
- College of Education
- College of Integrated Science & Technology
- College of Science and Mathematics
- Academic Affairs
- Research and Public Service
- All Other Divisions
- College of Visual & Performing Arts
- College of Graduate & Outreach Programs

Letters totaled \$847,370, showing a significant 65.5% increase over the prior year. The College of Integrated Science and Technology (CISAT) earned \$9,788,930, a minor decrease of \$14,222 during the year. CISAT's external awards represent 39.31% of the total funding received for the year. The College of Science and Mathematics contributed \$2,177,673, or 8.74% of the total amount earned in FY07, which is \$146,571 less than in the previous fiscal year, or a 6% decrease. The College of

Education brought in \$1,202,649, or 4.83% of the total awards during FY07. The College of Business garnered \$901,401 in awards, or 3.62% of the total, increasing total awards by 10% over the prior year.

The pursuit of diversified sources of external funding is a high priority and an integral activity across all disciplines and divisions to augment existing resources, actively involve students in faculty mentored research, support curriculum development, and equipment acquisition. ♦

13 Year Increase in External Funding



EXTERNAL FUNDING SUCCESSES—FY2007

Dr. Mohamed S. Aboutabl, Institute for Infrastructure and Information Assurance, received a total of **\$10,000** from Engedi Technologies, Inc. to provide laboratory testing of the Secure Remote Management device (SRMa).

Ms. Emily K. Akerson, Institute for Innovation in Health and Human Services, received **\$85,000** from the Department of Social Services to ensure the continuation and expansion of services for at-risk new parents and young families in Page County; **\$50,000** from the Department of Social Services to prevent child abuse and neglect by promoting positive parenting, maternal and child health, and optimal early development; and **\$7,860** from the Valley Program for Aging Services to provide educational and administrative services.

Dr. Steve J. Baedke, Geology and Environmental Science, received a total of **\$44,744** 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 strandplains of beach ridges and wetlands.



Dr. George H. Baker, Institute for Infrastructure and Information Assurance, received **\$23,000** from the Science Applications International Corporation (SAIC) to explore new technologies that offer improvement in one or more metrics of actual prediction of electromagnetic pulse effects on systems over current technology, and to provide a preliminary assessment of critical infrastructure activities.

Col. Dennis C. Barlow, Mine Action Information Center, received **\$383,697** in operations support from the U.S. Department of State to identify, gather, manage, and distribute information to encourage and stimulate the support of programs undertaken by the office of Weapons Removal and Abatement; and a total of **\$353,612** from the U.S. Department of State for a variety of support activities including to create a new executive level introductory course module and specific workshops on landmine survivor assistance; to identify adaptive technology for use by disabled landmine survivors that will aid reintegration efforts aimed at providing

access to livelihoods in the agricultural and mechanical sectors; to analyze the types and origins of mines and unexploded ordnance to assist with their safe removal and destruction; to collect relevant materials and information on casualty data and mine action planning to use to develop lessons learned, best practices and case studies; to establish a comprehensive list of global training and educational opportunities; to design, develop, identify, gather, and distribute information in order to provide the public access to pertinent and reliable information about landmine action and small arms and light weapons control; and to publish the seventh edition of the publication "To Walk the Earth in Safety;" and **\$19,916** from the Geneva International Centre for Humanitarian Demining to provide the global mine action community with easy access to the current international mine action standards.

Dr. Morgan Benton, Integrated Science and Technology, received **\$37,500** from the Department of Historic Resources to provide a historical highway marker website and database.

Dr. Cheryl L. Beverly, Exceptional Education, received a total of **\$211,929** from the Virginia Department of Education to address the complex service delivery and academic improvement challenges faced by middle & high school youth with disabilities, and to facilitate general membership meetings and a General Membership and Early Childhood Special Education Providers Conference.

Dr. Paul E. Bierly, Center for Entrepreneurship, received **\$28,500** from the Kauffman Center for Entrepreneurial Leadership to evaluate the entrepreneurial propensity of college students.

Dr. Joseph R. Blandino, Integrated Science and Technology, received **\$5,539** from the Dynamic Aviation Group, Inc. to provide services associated with strain and vibration of an aircraft mounted synthetic aperture radar.

Dr. David F. Brakke, College of Science and Mathematics, received a total of **\$90,000**



from the USDA Forest Service to conduct studies on fragmentation of aquatic ecosystems in eastern National Forests and to study fish and turtle movements (by radio tracking & pit tags) in aquatic ecosystems fragmented by forest roads and various land uses.

Dr. Christie J. Brodrick, Integrated Science and Technology, received **\$8,000** from the Virginia Department of Environmental Quality to complete an evaluation and report of the educational driver's education curriculum for the Clean Air Champions Program; **\$1,122,000** from the National Oceanic and Atmospheric Administration to demonstrate and evaluate a pilot interactive system for the distribution of scientific and administrative information on air quality in the Shenandoah Valley; and **\$73,719** from the Economic Development Commission to increase the understanding of health consequences of ozone reduction measures.



Dr. Justin W. Brown, Biology, received **\$10,640** from the U.S. Army Research Institute of Environmental Medicine to determine the appropriate housing temperatures for different strains of laboratory mice and rats to lead to improvements in laboratory animal care and the quality of data obtained from the study of these subjects.

Dr. Florian P. Buchholz, Computer Science, received **\$97,098** from the National Science Foundation to conduct research in the area of timestamp analysis for computer forensics investigators.

Sgt. Margaret A. Campbell, Police and Safety, received **\$7,500** from the Virginia Department of Alcoholic Beverage Control to decrease high-risk behavior and criminal activity associated with the use of alcohol.

Dr. Laurie O. Cavey, College of Education, received **\$6,950** from the Virginia Department of Education to produce "highly qualified teachers" of mathematics at the middle school level.

Dr. Corey L. Cleland, Biology, received **\$6,000** from the National Science Foundation to improve understanding of the principles by which the nervous system coordinates muscles across joints and solves the "degrees of freedom" problem in motor control.



Dr. W. Dean Cocking, Biology, received **\$5,800** from the DuPont De Nemours & Company to investigate mercury content of earthworms at sites along the South River which have previously been used for soil sampling.

Lt. C. Scott Coverstone, Police and Safety, received **\$15,000** from Rockingham County for equipment replacement.

Ms. Penelope Critzer, Institute for Innovation in Health and Human Services, received a total of **\$283,212** from the Virginia Department of Health to provide services to children with special healthcare needs; and \$2,732 from the Virginia Department of Education to support the education programs of the Child Development Clinic.



Dr. Pauline K. Cushman, Integrated Science and Technology, received **\$14,640** from the National Institute of Standards and Technology to support two undergraduate researchers working at NIST laboratories during the summer of 2007.



Dr. Ronn M. Daniel & Dr. Dawn M. Hachenski, Art and Art History, received **\$1,700** from the DuPont De Nemours & Company to promote the South River Science Team Public information exhibit to a wider audience.

Dr. Thomas C. DeVore, Chemistry, received **\$9,500** from The Academy of Applied Sciences to provide high school researchers with opportunities to present their research at a university symposium.

Dr. Daniel M. Downey & Dr. Gina M., MacDonald, Chemistry, received **\$84,360** from the National Science Foundation to provide research experiences for undergraduates in a ten-week session which includes opportunities in the sub-disciplines including materials science, biochemistry, synthesis, environmental chemistry, and spectroscopy; and **\$8,000** from the USDA Forest Service to inventory water quality of forest streams and monitor the effects on stream water chemistry of implementing the management as developed in the forest plan.



Dr. Carol C. Dudding & Dr. Vicki A. Reed, Communication Sciences and Disorders, received **\$287,258** from the Virginia Department of Education to provide a statewide American-Speech-Language-Hearing Association accredited masters program in Com-

munication Sciences and Disorders.

Mr. Thomas E. DuVal, Center for Public Broadcasting (WMRA-Valley Voice), received a total of **\$249,665** from the Corporation for Public Broadcasting to acquire qualified website services from internet suppliers, to support the WMRA website, to provide a Radio Community Service Grant, and to provide listeners significantly improved audio quality and innovative public service programming.

Dr. Steven W. Evans, Institute for Innovation in Health and Human Services, received a total of **\$370,437** from the National Institutes of Health to complete a small controlled clinical trial to obtain the necessary pilot data to potentially support a larger scale evaluation and to develop treatment fidelity measures and to develop and conduct a preliminary evaluation of a set of psychosocial interventions for high aged adolescents with attention-deficit/hyperactivity disorder (ADHD); and received **\$122,087** from the Virginia Tobacco Settlement Foundation to serve as the data management site and primary site for the writing of the prevention treatment manual.



Dr. Mark K. Fiegenger, Management, received a total of **\$137,314** from the Pacific Earthquake Engineering Research Center (PEER) to extend understanding of how life-line organizations make decisions about investments to mitigate earthquake risks in ways that can help managers and other key decision makers.

Dr. Diane L. Foucar-Szocki, Learning, Technology and Leadership Education, received **\$75,000** from the Virginia Department of Education to expand the breadth of educational services available to non-native speakers at all levels and increase access to those services; **\$100,000** from the Merck Foundation to facilitate the Career Development Academy for the Harrisonburg/Rockingham County and surrounding areas; and **\$193,974** from the Virginia Department of Education to provide after school and summer programming to help ESL and low literacy native speakers at the high school level to improve academic achievement.

Dr. Steven P. Frysinger, Integrated Science and Technology, received **\$3,000** from the National Park Service to help develop a database of information necessary for the next General Management Plan of Shenandoah National Park.

Dr. Joanne V. Gabbin, Furious Flower Poetry Center, received **\$2,500** from Pomegranate

Communications, Inc. to distribute the Painted Word Calendar based on the artwork of the Furious Flower Poetry Center Portrait Quilt.

Dr. Mark L. Gabriele with **Dr. Jonathan D. Monroe**, Biology, **Dr. Benjamin A. DeGraff**, Chemistry, & **Dr. Brenda M. Ryals**, Communication Sciences and Disorders received **\$358,005** from the National Science Foundation to establish an interdisciplinary, multi-user facility in innovative confocal microscopy at James Madison University.

Ms. Kristin M. Gardner, University Health Center, received **\$8,000** from the Virginia Department of Health to establish policies that support smoking cessation services through the use of normalizing non-smoking advertising; and with **Ms. Caroline G. Campbell**, University Health Center, received **\$6,000** from the Virginia Department of Health to initiate positive tobacco use control policy changes.

Dr. Clarence R. Geier, Sociology and Anthropology, received **\$4,848** from Belle Grove Inc. to complete the archaeological excavation and survey of Belle Grove's circa 1815 smokehouse; and a total of **\$93,813** from the Shenandoah Valley Battlefields Foundation to complete a cultural resources survey of the Artillery Ridge Parcel of Cross Keys battlefield, to establish the historic context of the Valley Pike Parcels on Fisher's Hill in Shenandoah County, to complete a systematic and comprehensive metal detector reconnaissance on the Valley Turnpike parcel at Fisher's Hill, to complete the archaeological excavation and survey of the Fair Meadows property on the Cedar Creek Battlefield, to provide a cultural resources survey of the New and Old Flint Hill Parcels in Shenandoah County, to conduct an archeological survey for parcels of land in the vicinity of New Market, to conduct an archeological survey of the Jordan Run parcel, and to perform an archeological assessment of Cemetery Hill and UDC Property Tracts at McDowell, Virginia.



Dr. Tammy D. Gilligan, Graduate Psychology, received a total of **\$104,000** from a variety of county and public school systems to provide Psychology Student Internships.

Dr. Katrina E. Gobetz, Biology, received **\$24,000** from The Jeffress Memorial Trust to quantify digging ability among ages, sexes, individuals, and species of sev-



eral mammals; and **\$3,187** from the Jurassic Foundation to investigate diet in ceratopsian and hadrosaurian dinosaurs through isolation of biogenic silica in calcified dental plaque.

Mr. Paul B. Goodall, Integrated Science and Technology, received **\$22,925** from Agwater Technologies Inc. to provide opportunities for undergraduates to conduct water testing in conjunction with this industrial partner.

Dr. Lincoln C. Gray, Communication Sciences and Disorders, received **\$53,860** from Virginia's Center for Innovative Technology to apply an analysis method to the task of monitoring wildlife and other data inputs for anomalous events that would indicate a potential disease outbreak.



Dr. Joann H. Grayson, Psychology, received **\$87,500** from the Virginia Department of Social Services to publish the Virginia Child Protection Newsletter.

Dr. Heather Griscom, Biology, received **\$25,000** 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. Dan C. Halling, Communication Sciences and Disorders, received **\$21,000** from the Virginia School for the Deaf and Blind to provide a graduate assistant from the Communication Sciences and Disorders on the campus of the school.

Dr. Reid N. Harris, Biology, received a total of **\$372,000** from the National Science Foundation to conduct research on amphibian cutaneous bacteria to provide information for conservation efforts.

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



Ms. Elizabeth Haworth, Furious Flower Poetry Center, received **\$38,000** from the Target Corporation to develop materials to allow students to gain a deeper understanding and appreciation of African American poetry;

and with **Ms. Julie Caran**, received **\$6,000** from R.R. Donnelley & Sons Company to provide support for the Furious Flower poetry camp initiatives.

Dr. M. Hossain Heydari, Computer Science, received **\$1,050** from the National Security Agency to provide students with advanced knowledge and skills necessary to better protect information technology infrastructure, and **\$15,000** to manage the Financial Aid Fund for the New Security Paradigms Workshop.

Ms. Jane Hubbell, Institute for Innovation in Health and Human Services, received a total of **\$54,790** from the Community Resource Center to develop and maintain high quality agency programs; **\$5,412** from Crossroads to Brain Injury Recovery, Inc. to provide services to individuals affected by brain injuries; **\$2,500** from Rockingham Memorial Hospital to analyze the data from the Youth Data Survey and disseminate it to the Shenandoah Valley community; with **Dr. Catherine J. Webb**, Nursing, received **\$62,000** from the Claude Moore Charitable Foundation to provide families of children with disabilities an opportunity to take a break from the demands of constant care giving; **\$79,907** from the Virginia Department of Health to implement, enhance, and evaluate comprehensive community based youth suicide prevention & early intervention programming; **\$39,766** from the U.S. Department of Health and Human



Services to identify barriers and strengths of using a web-based Core Instrument across sites; **\$4,250** from the Department of Social Services to help teens improve decision-making skills to make competent decisions about their futures; **\$13,000** from individual donors to support the Reading Road Show's Gus Bus activities; **\$15,315** from the Central Shenandoah Health District to provide programs to decrease the number of out-of-wedlock births in the area; **\$241,950** from the Virginia Department of Education to provide supplemental educational services to the children of migrant farm workers in collaboration with local school districts; **\$269,031** from the U.S. Department of Health and Human Services to provide services that help adolescents acquire knowledge and skills that will instill healthy attitudes; **\$80,000** from the Virginia Department of Health to reduce the rate of teen pregnancy and help sustain lower rates; **\$24,910** from the Harrisonburg Redevelopment and Housing Authority to develop and

maintain high quality agency programs; and with **Dr. Karen A. Ford**, Social Work, received **\$14,000** from the Governor's Office for Substance Abuse Prevention to collect, compile, analyze, and present data on youth surveys done in Virginia and selected other states.

Dr. Carole A. Hurney, Biology, received **\$10,000** from the Jeffress Memorial Trust to clone and analyze some aspects of embryonic expression of a key myogenic gene, Myf5, in the four-toed salamander.

Dr. Ronald G. Kander & Mr. Dwight R. Dart, Integrated Science and Technology, received **\$21,707** from the National Science Foundation to produce final products of plastic snap together cell parts for biological demonstrations; and with **Ms. Carole Nash**, Geographic Science Program, received a total of **\$34,709** from the National Park Service to act as an archaeological advisor for Shenandoah National Park and to perform an archaeological reconnaissance survey of the Madison Run Fire Road and to conduct field work to include intensive survey and GPS mapping of landscape features and surface artifact scatters and to input data into the Archeological Sites Management Information System Database; and **\$5,186** from the Wintergreen Nature Foundation to test excavate and evaluate a site; and **\$70,000** from the City of Harrisonburg to promote the growth and development of small businesses in fields related to Information Technology in the city.



Dr. Judy B. Kidd, Mathematics and Statistics, received a total of **\$33,519** from the Virginia Department of Education to offer workshops to enable middle school teachers to understand and better teach mathematics concepts at the middle school level.

Ms. Susan F. Lamb, Center for Public Broadcasting (WMRA-Valley Voice), received a total of **\$155,556** from the Virginia Public Broadcasting Board to provide community broadcast services and Radio Reading Services; **\$32,600** from WMRA listeners to support the WMRA studio campaign and the digital radio conversion of WMRA, WMRL, and WMRL; and **\$209,980** from the Corporation for Public



Broadcasting to provide community broadcast services.

Dr. Chris S. Lantz, Biology, received **\$10,000** from the Jeffress Memorial Trust to determine biologically relevant sources of IL-3 in vivo.

Dr. Kristi L. Lewis, Health Sciences, received **\$4,968** from the University of Kentucky to analyze trend data on seasonal influenza.



Dr. Laura A. Lewis, Sociology and Anthropology, received **\$40,000** from the National Endowment for the Humanities to explore variable identities among black Mexicans in both Mexico and North Carolina.

Dr. Reid J. Linn, College of Graduate and Outreach Programs, with **Ms. Cheryl L. Henderson** and **Ms. Melinda B. Bright**, T-TAC, received **\$1,751,134** from the Virginia Department of Education to support regional and local activities for the Training/Technical Assistance Center for Region V; and a total of **\$60,000** from the Virginia Department of Correctional Education to provide staff development and training programs.

Dr. Jeffrey A. Marler, Communication Sciences and Disorders, received **\$8,000** from the National Williams Syndrome Association to investigate the chromosomal link to sensorineural hearing loss.

Dr. Jeanne M. Martino-McAllister, Health Sciences, received **\$32,081** from the Virginia Tobacco Settlement Foundation to support the delivery of Prevention Basics Workshops for current practitioners.



Dr. Merle E. Mast, Nursing, received **\$407,419** from the U.S. Department of Health and Human Services to implement a new first Masters of Science in Nursing (MSN) program designed to provide graduates with eligibility for ANP or GNP certification; **\$85,000** from the Virginia Department for the Aging to increase and coordinate information, resources, and access to resources for persons with Alzheimer's Disease (AD) and their family caregivers, and **\$100,000** to enhance the Caregivers Community Network collaboration with partner agencies to more effectively coordinate services.

Dr. Mark E. Mattson, Physics, received **\$255,365** from the Toyota USA Foundation to restore a summer institute for regional physics and physical science teachers in public secondary schools.



Dr. Sandy L. Maxfield, Libraries & Educational Technologies, received **\$225,476** from the Institute of Museum and Library Services to engage in research and development to increase interoperability between the Madison Digital Image Database (MDID) and other digital image systems and presentation tools.



Dr. Robert L. McKown, Integrated Science and Technology, received **\$80,665** from the National Institutes of Health to provide novel recombinant proteins for research on tear secretion, and to perform development and analysis of variations of lacritin constructs suitable for commercial therapeutic use.

Dr. Jonathan J. Miles, Integrated Science and Technology, received **\$78,832** from the Virginia Department of Mines, Minerals and Energy to undertake the development of a site scoring system for wind and solar energy facilities.



Dr. Debra L. Mohler, Chemistry, received **\$55,000** from the Petroleum Research Fund to develop a quantitative understanding of the relationship between molecular structure and electron transfer dynamics.

Dr. Joy J. Moody, Education Support Center, received **\$63,588** from the Virginia Department of Education to extend the successful clinical faculty training provided by the Mid-Valley Consortium for Teacher Education into schools as a component of mentor training.

Dr. Aashir Nasim, Psychology, received **\$53,120** from the Virginia Tobacco Settlement Foundation to implement research that comprehensively addresses multiple cultural ecologies, which influence smoking among African American youth.

Dr. M. Ioana Niculescu, Physics, received

\$106,384 from the National Science Foundation to explore hadron structure physics, specifically the transition between the perturbative and the non-perturbative regimes, quark confinement and hadronization, and measurements of fundamental quantities, such as the muon lifetime; and **\$13,594** from the Fermi National Accelerator Laboratory to participate in the research and development of the MINERvA Detector.

Dr. John B. Noftsinger, Institute for Infrastructure and Information Assurance, received **\$1,162,776** from I2, Inc. to provide a Visual Investigative Analysis Software License; **\$1,500** from the Verizon Foundation to support the annual Technology Awards presentation (Tech Nite 7.0) of the Shenandoah Valley Technology Council; **\$2,022,624** from the National Institute of Standards and Technology to study policy, legal and technical issues related to critical infrastructure protection and to expand and test new concepts in resiliency and disaster recovery and response; **\$491,710** from the U.S. Department of Defense to strengthen security professionals' skill sets including counterfactual reasoning applications, and to produce research and practical benefits in the areas of data collection and data fusion; and **\$44,158** from the Shenandoah Valley Technology Council to support ongoing activities of the SVTC.

Mr. Christopher B. Nye, Institute for Innovation in Health and Human Services, received **\$12,500** from Rockingham Memorial Hospital to make health care more accessible to the area's immigrant community; **\$24,883** from Virginia Commonwealth University to train persons in providing interpretation in health and medical care encounters; a total of **\$2,079** from local churches to support the Promotoras de Salud Program; **\$2,655** from the Harrisonburg-Rockingham Free Clinic to provide volunteer outpatient health services; **\$103,569** from Virginia Commonwealth University to promote health careers and access to primary care for medically underserved populations through community-academic partnerships; **\$35,100** from the Harrisonburg-Rockingham Free Clinic to provide volunteer outpatient health services; **\$15,000** from Sentara Health Plan to train persons in providing interpretation in health and medical care encounters; **\$12,850** from the Intercultural Alliance to organize an annual International Festival; **\$20,000** from the Harrisonburg-Rockingham Community Services Board to provide interpretation services to non-English speaking clients; **\$8,323** from the Harrisonburg-Rockingham



Community Services Board to provide the services of System Manager for the Community Services Board's Infant-Toddler Connection Program; **\$236,243** from the Department of Mental Health, Mental Retardation and Substance Abuse to establish and administer a local system of early intervention services; **\$266,515** from the Virginia Department of Health to provide administrative and planning services for the HIV Consortium to improve the quality, availability and organization of health care and support services for individuals with HIV disease in the region; **\$15,000** from Virginia Commonwealth University to provide the Facts and the Fundamentals programs for healthcare learners; **\$16,850** from the RMH Foundation to provide interpretive services for low income, limited English proficient women accessing local obstetrical services; and **\$5,000** from the Page County Department of Social Services to provide services to promote positive parenting, health, and



child development; and with **Dr. Merle E. Mast**, Nursing, received **\$40,000** from the Virginia Department for the Aging to establish a care model to identify, assess, and follow-up with frail elders with dementia and family caregivers with memory enhancement support services.

Dr. Cynthia R. O'Donoghue, Communication Sciences and Disorders, received **\$31,726** from the Virginia Department of Education to provide seminars and expertise to support web-based study modules concerning dysphagia.

Dr. David Owusu-Ansah, History, & **Dr. Melinda J. Adams**, Political Science, received **\$60,908** from the U.S. Department of Education to strengthen Africana studies course offerings and African language instruction.

Dr. Maria C. Papadakis, Integrated Science and Technology, received **\$8,800** from the Department of Conservation & Recreation to conduct a rapid watershed assessment as part of assessment planning for implementing the Tributary Strategy in the South Fork Shenandoah watershed.



Dr. Eric J. Pyle, Geology and Environmental Science, received a total of **\$85,112** from the Virginia Department of Education to develop a statewide network in the Earth Sciences, specialized Earth Science courses, an increased pool of endorsed teachers, and increased student achievement on the Earth Science SOL test.

Dr. Ronald W. Raab, Dr. George L. Coffman, & Dr. Robert L. McKown, Integrated Science and Technology, received a total of **\$47,500** from the U.S. Army Medical Research Institute of Infectious Diseases to use yersinia pestis DNA and Bacillus anthracis gene CapD DNA as starting material to either subclone the genes of interest into protein expression vectors or develop a purification scheme for use with agency-produced expression vector clones.

Dr. Vicki A. Reed, Communication Sciences and Disorders, received **\$97,041** from the Virginia Department of Education to assist bachelor's degree level speech-language clinicians employed by the public schools to obtain a master's degree; **\$45,500** from the Scottish Rite Foundation of Virginia to continue support of the JMU-Scottish Rite Language Disorders Clinic; and **\$5,000** from the Blue Ridge Speech and Hearing Center of Loudoun County, Inc. to establish a scholarship for a graduate speech-language pathology student.

Mr. Henry A. Reeves, Small Business Development Center, received **\$380,875** from the U.S. Small Business Administration to provide technical advice and guidance and to



serve as a business and economic information focal point for small businesses.

Dr. Robert D. Reid, Institute of Certified Professional Managers, received **\$216,500** from the Institute of Certified Professional Managers to maintain the organization's national headquarters on the campus of James Madison University.

Dr. Barbara A. Reisner, Chemistry, received **\$46,093** from the National Science Foundation to promote metacognition and provide a guide for students' thinking throughout the inquiry process; and **\$500** from the Virginia Academy of Science to support an undergraduate researcher's efforts to identify the effects of structure directing agent (SDA) and reaction conditions on the ionothermal synthesis of open-framework aluminophosphate (AIPO) materials.

Dr. Terrie K. Rife with Dr. Jonathan D. Monroe, Biology, received **\$94,500** from the National Science Foundation to establish an REU site to provide students with independent research experiences and to give students opportunities to observe how molecular biology is becoming more integrated and collaborative within biology and other scientific disciplines; and with **Dr. Cheryl P. Talley**, Psychology, received **\$45,000** from the Commonwealth Health Research Board to lead to a better understanding of why obese individuals are more susceptible than the normal population to the development of diabetes type-2.



Dr. Judith T. Rocchiccioli, Nursing, received **\$14,038** from the U.S. Department of Health and Human Services to request traineeship stipends for underserved rural Virginia graduate nursing students.

Dr. Sheena J. Rogers, Graduate Psychology, received **\$2,000** from the American Psychological Association to integrate broader experiences into graduate Psychology practicums by supporting student visits to potential partner institutions.

Dr. J. Barkley Rosser, Jr., Economics, received **\$30,680** from the Journal of Economic Behavior and Organization to provide editorial services.

Dr. Brenda M. Ryals, Communication Sciences and Disorders, received **\$3,500** from Special Olympics, International to establish an objective, criterion based program for cerumen removal referral; and **\$107,856** from the National Institutes of Health to clarify the developmental progression of the anatomy and function on the inner ear of two strains of canary with normal hearing and with hearing loss.



Dr. Karen E. Santos, Center for Faculty Innovation, received **\$10,000** from the Virginia Association for Supervision and Curriculum Development to enhance learning outcomes for all students by increasing active co-planning and effective co-teaching by general and special education teachers in Staunton City Schools.

Dr. Michael J. Saunders, Kinesiology, received **\$10,000** from PacificHealth Labs to examine the effects of CHO+P ingestion during simulated mountain bike racing and its role on central and peripheral fatigue; **\$6,650** from DSM Food Specialties to research and determine whether a carbohydrate plus protein beverage improves endurance performance and muscle recovery when compared to a conventional carbohydrate-only sports beverage; and **\$15,000** from Cadbury Schweppes to determine if endurance performance is enhanced when subjects consume a commercially-available CHO+P beverage versus a commercial CHO-only beverage.



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

Dr. Sean T. Scully, Physics, received **\$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 **\$2,000** from Gallaudet University to provide a JMU graduate student a research assistantship at the Cochlear Implant Education Center at Gallaudet University; and **\$38,127** from the Virginia Department of Education to provide educational interpreters with a new DVD, "Teacher Sampler for sign-to-voice interpreting" and a 3-credit course on educational interpreting.

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



Dr. Zewelani N. Serpell, Psychology, received **\$39,964** 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 on tobacco use among adolescents with ADHD; and **\$1,500** from Eli Lilly & Company to sponsor an Attention Deficit/Hyperactivity Disorder conference.

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Dr. Lee G. Sternberger, International Programs, received **\$200,000** from the U.S. Department of State to foster sustainable connections and deep understandings of the countries experienced by all participants and to host a Fulbright Visiting Scholar for six weeks under the Fulbright program "Direct Access to the Muslim Word."

Dr. Stephen H. Stewart, Institute for Innovation in Health and Human Services, received **\$99,849** from Alpha Epsilon Delta to maintain the premedical honor society National Headquarters Office.

Ms. Lynne F. Stover, Center for Economic Education, received a total of **\$7,189** from the National Council on Economic Education to conduct a teacher-training workshop on the Mathematics and Economics: Connections for Life, 3-5 curriculum series and to advance the goals of the National Council on Economic Education in the field of entrepreneurship by conducting a year-long model implementation of the Mini-Society in area classrooms.

Dr. Donna L. Sundre, Center for Assessment & Research Studies, **Dr. Richard F. West**, Dept of Graduate Psychology, **Dr. Mary K. Handley**, Integrated Science and Technology, & **Dr. Carol A. Hurney**, Center for Faculty Innovation, received **\$498,765** from the National Science Foundation to further the development of collegiate scientific and quantitative reasoning assessment tools and procedures.

Col. Nick Swayne, College of Education, **Dr. Denise A. Perritt** & **Dr. Michelle A. Hughes**, Education Programs, received **\$307,629** from the State Council of Higher Education for Virginia (SCHEV) to improve teacher quality in science, technology and math content knowledge and pedagogical skills.



Dr. Wayne S. Teel, Integrated Science and Technology, received a total of **\$11,084** from the Environmental Protection Agency to provide information, data and water samples to the National Atmospheric Deposition Program on the pH levels and ammonia content of the rainfall collected, and to assess the effects of airborne nitrogen compounds and chemical contaminants on the BAY ecosystem.



Dr. Anthony L. Tongen, Mathematics and Statistics, received **\$24,985** from The Mathematical Association of America to



increase interest in advanced degrees and careers in mathematics for underrepresented groups by providing a summer research program.

Dr. Brian C. Utter, Physics, received **\$11,234** from the National Institute of Standards and Technology to support an undergraduate researcher working at NIST facilities in Boulder, Colorado, and to support an undergraduate researcher working at NIST Gaithersburg during the summer of 2007; and **\$44,718** from the Research Corporation to measure effects of vibration on the force network and flow rates and characterize the failure mechanism in shear and gravity-driven flows.

Dr. Leonard A. VanWyk, Mathematics and Statistics, received **\$51,580** from the National Science Foundation to provide student researchers with an authentic REU mathematical research experience and opportunities for interaction among diverse students.

Dr. C. Steven Whisnant, Physics, received **\$150,000** from the National Science Foundation to conduct research that centers on the use of photonuclear reactions to investigate the properties of the nucleon through the production of mesons and nucleon resonances; and **\$55,584** from the National Science Foundation to investigate the properties of the nucleon and nucleon resonances through Compton scattering and the production of mesons using polarized beams and targets.

Dr. Steven J. Whitmeyer, Geology and Environmental Science, received **\$3,993** from the Virginia Department of Mines, Minerals and Energy to identify and map surficial deposits and review maps prepared by state geologists; and **\$8,676** from the U.S. Geological Survey to perform geological mapping in the Stanley 7.5' quadrangle in Page Valley, Virginia.

Dr. Jacqueline A. Williams, Kinesiology, received **\$11,711** from Rockingham County Public Schools to provide a graduate assistantship; and **\$42,000** from the Virginia Department of Education to provide funding for a health and physical education content & teaching summer institute.

Mr. William R. Wilson, Madison Institutes, received **\$157,880** from the Center for Civic Education to implement the National We The People Institute.



Dr. Phillip M. Wishon, College of Education, received **\$39,605** from the College of William and Mary to develop a system for collecting quantifiable data and gathering subjective data on school size, location, sense of teacher empowerment and autonomy, and other environment concerns.

Dr. William C. Wood, Center for Economic Education, received **\$91,842** from Shenandoah Valley Economic Education, Inc. to continue full coverage of the school systems of Harrisonburg and Rockingham County with teacher consultation, training and assistance; and **\$8,500** from the Virginia Council on Economic Education to deliver the state-wide programs in the Shenandoah Valley during 2006-2007.

Dr. Daniel A. Wubah, Office of the President, received **\$113,380** from the National Science Foundation to provide a research experience for undergraduates (REU) site program whereby students from U.S. universities travel to the University of Cape Coast, (UCC) in Ghana during the summer to work on defined research projects under the mentorship of Ghanaian scientists.

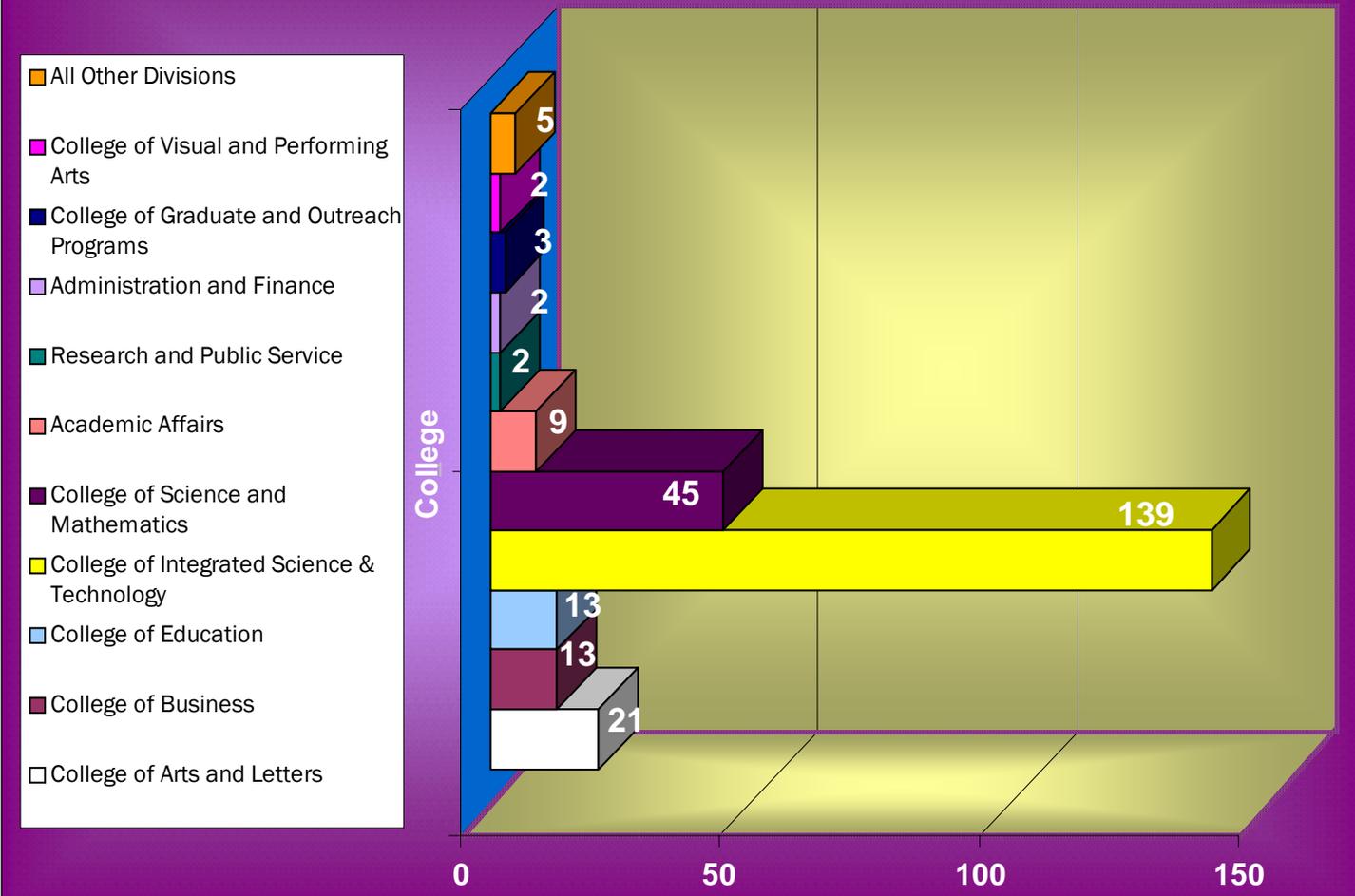


Dr. Roshna E. Wunderlich, Biology, received **\$10,000** from The Jeffress Memorial Trust to examine the biomechanics of bipedal locomotion in *Propithecus verreauxi*.

“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*



Number of Awards by College and Division



This figure shows the number of awards earned by each college or division. The *College of Arts and Letters* earned 21 awards totaling \$847,370, showing a significant 65.5% increase over the prior year. The *College of Integrated Science and Technology (CISAT)* earned \$9,788,930, a minor decrease of \$14,222 during the year. CISAT's external awards represent 39.31% of the total funding received for the year. The *College of Science and Mathematics* contributed \$2,177,673, or 8.74% of the total amount earned in FY07, which is \$146,571 less than in the previous fiscal year, or a 6% decrease. The *College of Education* brought in \$1,202,649, or 4.83% of the total awards during FY07. The *College of Business* garnered \$901,401 in awards, or 3.62% of the total, increasing total awards by 10% over the prior year.

All other departments and divisions, which include the *College of Visual & Performing Arts*, *Graduate & Outreach Programs*, *Academic Affairs*, *Research and Public Service*, the *Office of the President*, and *Student Affairs* contributed \$9,984,448, which equaled 40.1% of the total external funding received during FY07.

Compliance Corner New Effort Reporting System Roll-out



A new Effort Reporting System (ERS) will be implemented this September. This change will improve the accuracy and compliance of the institution's Effort Reporting process, but more importantly, it will be more convenient for faculty than the existing paper "Activity Reports" which have been used until now to certify individual effort on sponsored programs (grants and contracts.)

The following are changes that you should know about how the new ERS system works:

- Salary payments from ALL Sponsored Program funding will require certification. In the past, only federally funded awards required certification.
- Each employee will certify their own effort. With the old process, the Principal Investigator (PI) or Project Director was

asked to certify effort for everyone that worked on their award. The exception to this will be when the employee is a student or if the employee has left JMU before the certification could be obtained. In those cases, the PI will again be asked to certify that effort.

- Transactions which affect the distribution of Payroll dollars (PAR forms or ATV's) will be subject to review in relation to submitted certification forms. Retroactive salary payments may not be allowed if the employee's previously certified effort did not reflect the sponsored project work.

The first ERS certification process will be in September and will cover Summer 2007 effort. Grants & Contracts Financial Services personnel will be offering training and question and answer sessions on the following dates and times:

- **Thursday, Sept 6, 10 - 11:30; Taylor 305**
- **Friday, Sept 7, 10 - 11:30; Taylor 305**
- **Tuesday, Sept 11, 9 - 10:30; nTelos Room (ISAT 259)**

All sessions are identical, so you need only attend one. *No advance registration is required.* PI's will also receive training documents via e-mail.

There are two things that should be done immediately to assist in a smooth transition to ERS:

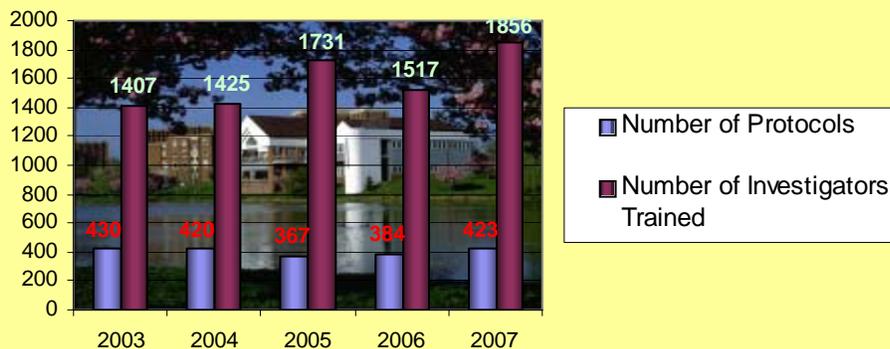
1. Submit any remaining PAR forms for summer payroll.
2. Submit all ATV's related to summer payroll.

We appreciate your patience and cooperation during this transition and are available to answer any questions about ERS. ♦

Institutional Research Board (IRB) Activity

The 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 FY2007, the OSP administered the review, editing, distribution, and approval process of 423 Human Research protocols and provided training for 1,856 investigators in the responsible and ethical conduct of human research. This year, the OSP formalized a bi-monthly Full-Board IRB meeting schedule to facilitate the timely review of complex protocols. The chart at right shows the dramatic increase in IRB activity at the university over the past 5 years ♦.

5 Year Results for IRB Protocols



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

John Hulvey
(540)568-6872 or
hulveyjd@jmu.edu

