

FY04 EXTRAMURAL AWARDS GRANTS, CONTRACTS, AND COOPERATIVE AGREEMENTS

The **OKLAHOMA CENTER FOR THE ADVANCEMENT OF SCIENCE AND TECHNOLOGY (OCAST)** has awarded a grant entitled: “*Research for Creating a Paperless Information System Year 2*” in the amount of **\$17,717**. The grant, in part, supports internships for computer science majors to gain hands-on experience through an internship arrangement with the BAR-S Foods Company. The students will assist on projects related to design and implementation of paperless information systems for production and distribution floor processes at Bar-S facilities. The primary function of this award is university student training and support. The principal investigator of the grant is ***Dr. Harpal Dhillon***.

The **BAR-S FOODS COMPANY** has awarded matching funds for an OCAST grant entitled: “*Research for Creating a Paperless Information System Year 2*” in the amount of **\$15,000**. These funds, in part, support internships for computer science majors to gain hands-on experience through an internship arrangement with the BAR-S Foods Company. The students will assist on projects related to design and implementation of paperless information systems for production and distribution floor processes at BAR-S facilities. The primary function of this award is university student training and support. The principal investigator of the grant is ***Dr. Harpal Dhillon***.

The **NATIONAL SCIENCE FOUNDATION** through Oklahoma State University has awarded a cooperative agreement entitled: “*Louis Stokes Alliance for Minority Participation in Science, Mathematics, Engineering, and Technology Year 5*” in the amount of **\$12,142**. The cooperative agreement, in part, supports efforts to recruit minority students to pursue degrees in the Science, Mathematics, Engineering, and Technology fields. The primary function of this award is university student training and support. The principal investigator of the cooperative agreement is ***Dr. Brian Campbell***.

The **NATIONAL INSTITUTE OF HEALTH** through the University of Oklahoma Health Sciences Center has awarded a grant entitled: “*Oklahoma Biomedical Research Infrastructure Network (BRIN Student Summer Research Program) Year 3*” in the amount of **\$18,000**. The grant, in part, supports students in an undergraduate institution who have exhibited a record of high academic achievement in science through first-hand experience working in a biomedical research laboratory. The primary function of the grant is university student training and support. The principal investigator of the grant is ***Dr. Vilas Prabhu***.

The **AMERICAN FOUNDATION FOR PHARMACEUTICAL EDUCATION** has awarded a grant entitled: “*Novel Thalidomide Analogs as Hypoxia Inducible Factor-1 Inhibitors*” in the amount of **\$5,000**. The grant, in part, supports a promising pharmacy student to undertake a faculty-mentored research program and to encourage the student to consider an advanced graduate education and/or a career in research. The primary function of the award is university student training and support. The principal investigator of the grant is ***Dr. David Bergman***.

The **OKLAHOMA STATE DEPARTMENT OF EDUCATION** through the Hydro-Eakly Public Schools has awarded a contract entitled: “*OK-RMSP: Oklahoma Rural Mathematics and Science Partnership*” in the amount of **\$4,012**. The contract, in part, supports a program to increase content knowledge and the creation of standards based mathematics and science lessons for K-12 teachers in rural western Oklahoma. The primary function of the award is K-12 teacher training. The principal investigator of the contract is ***Dr. Brian Campbell***.

The **TOYOTA MOTOR SALES, U.S.A., INC.** has awarded a grant entitled: “*Science, Mathematics, and Technology in Industry: Partnerships in Problem Solving*” in the amount of **\$74,252**. The grant, in part, supports a program to give gifted high school juniors and seniors the opportunity to experience the close

interrelationship between science, mathematics, and its application to technology in industry and society. The primary function of this award is K-12 student training. The principal investigators of the grant are *Dr. Brian Campbell and Dr. Kyle Ashby*.

The **NATIONAL SCIENCE FOUNDATION** through Oklahoma State University has awarded a contract entitled: “*TechTrol, Inc. Project*” in the amount of **\$26,248**. The contract, in part, supports a faculty member and undergraduate students to engage in a research project to perform marketing studies and analyses to assist in defining the marketing potential and various marketing segments for a new product. The primary function of this award is university student training and support. The principal investigator of the contract is *Dr. Elizabeth Ferrell*.

The **U.S. SMALL BUSINESS ADMINISTRATION** through Southeastern Oklahoma State University has awarded a cooperative agreement entitled: “*Small Business Development Center 2004*” in the amount of **\$161,709**. The cooperative agreement, in part, enhances economic development in the Southwestern Region of the state by offering counseling and training to existing and potential small business clients. The primary function of this award is public service. The principal investigator of the cooperative agreement is *Dr. Marvin Hankins*.

The **NATIONAL INSTITUTE OF HEALTH** through the University of Oklahoma Health Sciences Center has awarded additional funding for a grant entitled: “*Identification of Osmoadaptive Genes in Pseudomonas aeruginosa (BRIN Collaborative Supplement) Year 3*” in the amount of **\$7,000**. The additional funding, in part, supports research collaborations between faculty at the primarily undergraduate BRIN institutions and their counterparts at the comprehensive campuses. Faculty funded through this program will gain valuable experience in designing, conducting and reporting biomedical research, thus enhancing their ability to compete for extramural funding beyond the local level. The primary function of this award is basic research. The principal investigator of the grant is *Dr. Arden Aspedon*.

The **U.S. DEPARTMENT OF AGRICULTURE** has awarded a cooperative agreement entitled: “*Child Nutrition Program*” in the amount of **\$6,000**. The cooperative agreement, in part, provides support for participants who are associated with the Upward Bound program. The primary function of this award is public service. The principal investigator of the cooperative agreement is *Ms. LouAnn Largent*.

The **BUREAU OF INDIAN AFFAIRS** through the University of Oklahoma awarded a contract entitled: “*Professional Service Agreement: School Improvement, Personnel Development*” in the amount of **\$30,081**. The contract, in part, supports special education instruction to Native American teachers in association with Bureau of Indian Affairs funded schools. The primary function of this award is K-12 teacher training. The principal investigator of the contract is *Dr. Lessley Price*.

The **UNIVERSITY OF OKLAHOMA** has awarded a contract entitled: “*Early Childhood Education*” in the amount of **\$900**. The contract in part, supports services associated with the University of Oklahoma Center for Early Childhood Professional Development (CECPD) videoconferences on early childhood education. The primary function of this award is K-12 teacher training. The principal investigator of the contract is *Dr. Lessley Price*.

The **OKLAHOMA DEPARTMENT OF TRANSPORTATION** through the Oklahoma Aeronautics Commission has awarded a grant entitled: “*Aviation, Aerospace, and Technology Expo (SATS) 2004*” in the amount of **\$13,000**. The grant, in part, supports economic development activities for the aerospace industry. The primary function of this award is public service. The principal investigator of the grant is *Ms. Brenda Burgess*.

The **DEPARTMENT OF HEALTH AND HUMAN SERVICES** through the University of Oklahoma Health Sciences Center has awarded a grant entitled: “*Camp Happy Hollow*” in the amount of **\$4,000**. The grant, in part, supports pre-service teachers who are involved with a residential summer camp for special needs children. The primary function of this award is instruction. The principal investigator of the grant is [Dr. Ronna Vanderslice](#).

The **NATIONAL AERONAUTICS AND SPACE ADMINISTRATION (NASA)** through the University of Oklahoma has awarded a contract entitled: “*National Space Grant College and Fellowship Program Year 3*” in the amount of **\$7,000**. The contract, in part, supports scholarships for students interested in pursuing space related educational programs and supports students to attend space related workshops. The primary function of this award is university student training and support. The principal investigator of the contract is [Dr. Vilas Prabhu](#).

The **OKLAHOMA STATE DEPARTMENT OF HEALTH** has awarded a grant entitled: “*Sexual Assault Prevention Education*” in the amount of **\$631**. The grant, in part, supports in-service training to prepare personnel to provide sexual assault prevention education to students in Oklahoma colleges, universities and institutions of higher education. The primary function of this award is public service. The principal investigator of the grant is [Mr. Don Groth](#).

The **U.S. DEPARTMENT OF EDUCATION** through the Oklahoma State Regents for Higher Education has awarded a grant entitled: “*KESAM 2004: K-8 Scholars Appreciating Mathematics (NCLB)*” in the amount of **\$76,140**. The grant, in part, supports elementary teacher training in high quality mathematics instruction and related activities. The primary function of this award is K-12 teacher training. The principal investigator of the grant is [Dr. John Woods](#).

The **NATIONAL INSTITUTE OF HEALTH** through the University of Oklahoma Health Sciences Center has awarded a grant entitled: “*Is Retinoid Induced Cell Apoptosis Mediated by Superoxide Radical Anion Production? (BRIN Year 3 Collaborative)*” in the amount of **\$44,846**. The grant, in part, supports research collaborations between faculty at the primarily undergraduate BRIN institutions and their counterparts at the comprehensive campuses. Faculty funded through this program will gain valuable experience in designing, conducting and reporting biomedical research, thus enhancing their ability to compete for extramural funding beyond the local level. The primary function of the grant is basic research. The principal investigator of the grant is [Dr. William Kelly](#).

The **NATIONAL INSTITUTE OF HEALTH** through the University of Oklahoma Health Sciences Center has awarded a grant entitled: “*Identification of Osmoadaptive Genes in Pseudomonas aeruginosa (BRIN Year 3 Collaborative)*” in the amount of **\$24,423**. The grant, in part, supports research collaborations between faculty at the primarily undergraduate BRIN institutions and their counterparts at the comprehensive campuses. Faculty funded through this program will gain valuable experience in designing, conducting and reporting biomedical research, thus enhancing their ability to compete for extramural funding beyond the local level. The primary function of this award is basic research. The principal investigator of the grant is [Dr. Arden Aspedon](#).

The **NATIONAL INSTITUTE OF HEALTH** through the University of Oklahoma Health Sciences Center has awarded a grant entitled: “*Identification and Characterization of Molecular Genetic Determinants Mediating Osmoadaptation in Pseudomonas aeruginosa (BRIN Mini-Grant Supplement Year 2)*” in the amount of **\$5,000**. The grant, in part, provides funding for faculty at undergraduate institutions. Faculty funded through this program will gain valuable experience in designing, conducting and reporting biomedical research, thus enhancing their ability to compete for extramural funding beyond the local level. The primary function of this award is basic research. The principal investigator of the grant is [Dr. Arden Aspedon](#).

The **NATIONAL INSTITUTE OF HEALTH** through the University of Oklahoma Health Sciences Center has awarded a grant entitled: “*Probing Allosteric Interactions within E. coli Carbamoyl Phosphate Synthetase via Intrinsic Fluorophores (BRIN Mini-Grant Supplement Year 2)*” in the amount of **\$5,000**. The grant, in part, provides funding for faculty at undergraduate institutions. Faculty funded through this program will gain valuable experience in designing, conducting and reporting biomedical research, thus enhancing their ability to compete for extramural funding beyond the local level. The primary function of this award is basic research. The principal investigator of the grant is **Dr. Jason Johnson**.

The **NATIONAL INSTITUTE OF HEALTH** through the University of Oklahoma Health Sciences Center has awarded a grant entitled: “*Assessing Carotenoid Antioxidant Activities by Computational Methods (BRIN Mini-Grant Supplement Year 2)*” in the amount of **\$5,000**. The grant, in part, provides funding for faculty at undergraduate institutions. Faculty funded through this program will gain valuable experience in designing, conducting and reporting biomedical research, thus enhancing their ability to compete for extramural funding beyond the local level. The primary function of this award is basic research. The principal investigator of the grant is **Dr. William Kelly**.

The **ORACLE CORPORATION** has awarded a grant entitled: “*Oracle Academic Initiative*” in the amount of **\$162,150**. The grant, in part, supports the acquisition of a multi-user software license, software upgrade, and services from the Oracle Academic Initiative Software and Support Program. This software license enables the Computer Science Department to continue offering state-of-the-art laboratory instruction. The primary function of this award is university student training and support. The principal investigator of the grant is **Ms. Madeline Baugher**.

The **NATIONAL SCIENCE FOUNDATION** through the University of Central Oklahoma has awarded a grant entitled: “*SURE-STEP Supporting Undergraduate Research & Education Year 1*” in the amount of **\$79,962**. The grant, in part, supports a program to increase the number of students and to retain and graduate more students in the science, technology, engineering, and mathematics disciplines. The primary function of this award is university student training and support. The principal investigator of the grant is **Dr. Vilas Prabhu**.

The **MICROSOFT CORPORATION** has awarded a grant entitled: “*Training and Implementation of Microsoft Windows.Net Environment*” in the amount of **\$20,200**. The grant, in part, supports infrastructure training and implementation of campus-wide Microsoft software. The primary function of this award is general university support. The principal investigator of the grant is **Mr. Mark Engelman**.

The **OKLAHOMA STATE REGENTS FOR HIGHER EDUCATION** has awarded a grant entitled: “*Summer Academy for Future Math and Science Teachers (AFMAST) Year 3*” in the amount of **\$12, 600**. The grant, in part, supports a summer academy program designed to encourage high school juniors and seniors to pursue careers in math and science teaching. The primary function of this award is K-12 student training. The principal investigator of the grant is **Dr. Sylvia Esjornson**.

The **NATIONAL INSTITUTE OF HEALTH** through the University of Oklahoma Health Sciences Center has awarded a grant entitled: “*Oklahoma Biomedical Research Infrastructure Network (BRIN Equipment) Year 3*” in the amount of **\$40,105**. The grant, in part, supports the purchase of laboratory equipment to foster the development of research at undergraduate institutions. The primary function of this award is university student training and support. The principal investigator of the grant is **Dr. Vilas Prabhu**.

The **NATIONAL COLLEGE ATHLETIC ASSOCIATION** through the Lone Star Conference has awarded a grant entitled: “*NCAA Strategic Initiatives Grant 2003-04*” in the amount of **\$3,033**. The grant,

in part, supports the SWOSU Athletic Department by providing funding for tutorial services, student scholarships, and various student/team expenses. Funding for a laptop computer to be used by the Athletic Department was also provided. The primary function of this award is university student training and support. The principal investigator of the grant is *Mr. Cecil Perkins*.

The **VETERANS ADMINISTRATION** has awarded a contract entitled: “*Pharmaceutical Care in an Ambulatory Veterans Administration Medical Center Clinic Year 3*” in the amount of **\$418,151**. The contract, in part, supports contemporary pharmacy services while providing educational and research opportunities for pharmacy students in the pharmaceutical care clinic area. The primary function of this award is university student training and support. The principal investigators of the contract are *Dr. David Bergman and Dr. Dennis Thompson*.

The **OKLAHOMA STATE REGENTS FOR HIGHER EDUCATION** has awarded a grant entitled: “*Lignocellulosic Biomass Research Project Year 3*” in the amount of **\$80,000**. The grant, in part, supports a three-year study designed to research the biomass resources in the area and the feasibility of bringing a biomass industry to Western Oklahoma. The primary function of this award is economic development. The principal investigator of the grant is *Dr. Marvin Hankins*.

THE HARRIS FOUNDATION has awarded a grant entitled: “*Bernard Harris Summer Science Camp 2003*” in the amount of **\$32,084**. The grant, in part, supports a summer science camp to encourage underrepresented groups to pursue careers in the engineering, mathematics, science and technology fields. The primary function of this award is K-12 student training. The principal investigator of the grant is *Dr. Blake Sonobe*.

The **OFFICE OF JUVENILE AFFAIRS** has awarded a contract entitled: “*SWOSU Adventure Programs FY04*” in the amount of **\$3,804,459**. The contract, in part, supports residency programs at five sites for youth in Office of Juvenile Affairs custody. The residency treatment programs utilize outdoor education experiences to encourage possible behavioral changes for the youth served. The primary function of this award is public service. The principal investigator of the contract is *Dr. Ken Rose*.

The **PARAMETRIC TECHNOLOGY CORPORATION (PTC)** has awarded a grant entitled: “*Obtaining Pro/DESKTOP 3D Design Software*” in the amount of **\$330,000**. The grant, in part, supports the acquisition of a multi-user software license to be distributed to engineering technology students and faculty. This software license enables the Technology Department to continue offering state-of-the-art instruction. The primary function of this award is university student training and support. The principal investigator of the grant is *Dr. Richard Baugher*.

The **U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES** through the Oklahoma Department of Human Services and the University of Oklahoma has awarded a contract entitled: “*Child Welfare Professional Enhancement Program (CWPEP) FY04*” in the amount of **\$98,083**. The contract, in part, supports students who are pursuing child welfare careers through financial support as well as employment opportunities. The primary function of this award is university student training and support. The principal investigator of the contract is *Ms. Patricia Albaugh*.

The **U.S. DEPARTMENT OF AGRICULTURE** through the Oklahoma State Department of Education has awarded a grant entitled: “*Child Nutrition Program*” in the amount of **\$96,000**. The grant, in part, supports the nutrition costs for participants of the residential program for youth housed as part of the University's SWOSU Adventure Programs. The primary function of this award is public service. The principal investigator of the grant is *Mr. Jason Baker*.

The **OKLAHOMA COMMISSION FOR TEACHER PREPARATION** through the Oklahoma State University has awarded a cooperative agreement entitled: “Success in Science and Mathematics: A Professional Development Institute in Science and Mathematics Year 2” in the amount of **\$50,700**. The cooperative agreement, in part, supports professional development training of K-8 teachers in hands-on, inquiry-based science curriculum modules. This module training will ensure that K-8 teachers will have the knowledge, skills, and materials needed to provide students with the highest quality of science instruction available. The primary function of this award is K-12 teacher training. The principal investigator of the cooperative agreement is **Dr. Robbie McCarty**.

The **U.S. DEPARTMENT OF COMMERCE** through the Oklahoma Alliance for Manufacturing Excellence, Inc. has awarded a grant entitled: “*Southwestern Manufacturing Consortium: Manufacturing Extension Agent and Fiscal Agent FY2004*” in the amount of **\$34,000**. The grant, in part, supports a manufacturing extension and fiscal agent who works with existing small to medium sized manufacturers to improve the manufacturers' ability to compete in the international market place. The primary function of this award is economic development. The principal investigator of the grant is **Dr. Marvin Hankins**.

The **NATIONAL SCIENCE FOUNDATION** through Oklahoma State University and OK EPSCoR has awarded a grant entitled: “*High Challenge Student Advisor Year 2*” in the amount of **\$25,500**. The grant, in part, supports an advisor for academic and career advisement for high challenged students. The primary function of this award is university student training and support. The principal investigator of the grant is **Dr. Paulette Woods**.

SOUTHWESTERN RESEARCH MATERIALS (SWRM) has awarded a contract entitled: “*Improving Breast Cancer Treatment*” in the amount of **\$15,000**. The contract, in part, supports a joint project to develop and validate methodologies during the treatment of metastatic breast cancer. The primary function of this award is basic research. The principal investigators of the contract are **Dr. Arden Aspedon, Dr. Kyle Ashby and Dr. Gus Ortega**.

The **WESTERN TECHNOLOGY CENTER** has awarded a grant entitled: “*Southwestern Manufacturing Consortium: Extension Agent and Fiscal Agent FY2004*” in the amount of **\$10,000**. The grant, in part, supports a manufacturing extension agent who works with existing small to medium sized manufacturers to improve the manufacturers' ability to compete in the international market place. The primary function of this award is economic development. The principal investigator of the grant is **Dr. Marvin Hankins**.

The **NATIONAL ENDOWMENT FOR THE ARTS** through Arts Midwest has awarded a grant entitled: “*Romeo and Juliet*” in the amount of **\$7,000**. The grant, in part, supports public performances thereby offering the communities in the Western Oklahoma region the opportunity to experience the arts first hand. The primary function of this award is cultural enrichment. The principal investigator of the grant is **Mr. Kevin Bartel**.

The **NATIONAL AERONAUTICS AND SPACE ADMINISTRATION (NASA)** through the University of Oklahoma has awarded a contract entitled: “*National Space Grant College and Fellowship Program Year 2*” in the amount of **\$7,000**. The contract, in part, supports scholarships for students interested in pursuing space related educational programs and supports students to attend space related workshops. The primary function of this award is university student training and support. The principal investigator of the contract is **Dr. Vilas Prabhu**.

The **CHEYENNE-ARAPAHO TRIBES** have awarded a grant entitled: “*High Challenge Student Advisor*” in the amount of **\$3,000**. The grant, in part, supports an advisor for academic and career advisement for high challenged students. The primary function of this award is university student training and support. The principal investigator of the grant is **Dr. Paulette Woods**.

The **POWERADE--COCA-COLA NORTH AMERICA GROUP** has awarded a grant entitled: “*Powerade Supplies*” in the amount of **\$2,937**. The grant, in part, supports the enhancement of the Health, Physical Education and Recreation Department programs within the University through the donation of supplies. The primary function of this award is university student training and support. The principal investigator of the grant is **Mr. Ron Walker**.

The **BOY SCOUTS OF AMERICA** has awarded a grant entitled: “*Adventure Opportunities Canoeing and Camping Program*” in the amount of **\$2,452**. The grant, in part, supports expenses for youth in an Office of Juvenile Affairs residency program that utilizes outdoor educational experiences to partake in a canoeing and camping trip. The primary function of this award is public service. The principal investigator of the grant is **Mr. Ryan Haggard**.

The **U.S. DEPARTMENT OF EDUCATION** has awarded a grant entitled: “*Upward Bound Year1*” in the amount of **\$367,565**. The grant, in part, supports an outreach program, as well as a residential summer program, that is designed to encourage first generation, economically disadvantaged high school students to meet the academic and social challenges of higher education. The primary function of this award is public service. The principal investigator of the grant is **Ms. LouAnn Largent**.

The **OKLAHOMA ARTS COUNCIL** has awarded a grant entitled: “*34th Annual SWOSU Jazz Festival*” in the amount of **\$4,700**. The grant, in part, will help develop a better appreciation and understanding of Jazz among the students, faculty and public that are served by the University. The primary function of this award is university student training and support. The principal investigator of the grant is **Dr. Terry Segress**.

The **BUREAU OF INDIAN AFFAIRS** through the University of Oklahoma has awarded a cooperative agreement entitled: “*American Indian Center for Excellence in Exceptional Education—Special Education Instruction*” in the amount of **\$20,488**. The cooperative agreement, in part, supports training to Bureau of Indian Affairs (BIA) personnel in special education topics as they relate to paraprofessionals in residential situations at BIA schools. The primary function of this award is K-12 teacher training. The principal investigator of the cooperative agreement is **Dr. Lessley Price**.