

## **2007 LANL Foundation Grants**

### **EDUCATIONAL ENRICHMENT GRANTS, \$2,729,654.02**

**Bernalillo Public Schools** \$16,112.54 to expand the district robotics curriculum to the fifth-grade level, and to support the newly-established BPS Education Foundation

**Chama Valley Independent Schools** \$11,847.46 to upgrade, maintain and replace computer equipment for K-12 classrooms and labs

**Cuba Independent Schools** \$2,369.49 to help replenish high school chemistry supplies and provide (3) field trips for students in Biology, Physics and Chemistry classes

**Espanola Public Schools** \$1,225,027.02 to contract with Efinity Educational Services and Northern New Mexico College to provide a strong and reliable IT network and backbone and technology-supported instruction to support student and staff achievement

**Jemez Mountain Schools** \$27,012.20 to help purchase a short cycle assessment (mandated by the NM Public Education Department) for the areas of Science, Math, English and Reading, as well as support after-school tutoring activities and contract services for data assessment training for teachers and personnel

**Jemez Valley Public Schools** \$114,209.48 to fund partial FTE's, site licenses, stipends and general supplies/materials for math, science and technology education

**Las Vegas City Schools** \$2,843.39 to purchase educational wind turbine kits to teach students at Memorial Middle School about alternative energy systems

**Mesa Vista Consolidated Schools** \$51,654.91 to purchase and implement math interventions for grades 3 through 12, as well as support the high school Environmental Science Management Program

**Mora Independent Schools** \$3,317.29 to support (4) certified classroom teachers to deliver 116 hours of targeted math tutoring to K-8 students each Monday-Thursday from 3:00 to 6:00 pm

**Pecos Independent Schools** \$6,634.58 to help fund an elementary math/science coach to create hands-on learning opportunities for students

**Pensasco Independent Schools** \$37,437.96 to implement enrichment, tutoring and Saturday school programs to increase student learning in math and language arts

**Pojoaque Valley Schools** \$226,049.47 to support district technology projects and math programs to enhance student AYP scores and overall achievement

**Rio Rancho Public Schools** \$107,574.91 to continue to support a digital interactive classroom project that will provide classrooms with digital projection systems, document cameras, and interactive whiteboards for professional development and advanced instructional activities

**Santa Fe Public Schools** \$859,651.46 to target student achievement in STEM areas, as well as support drop-out prevention and intervention programs and development/fundraising activities

**Taos Municipal Schools** \$37,911.86 to continue the operation of the Taos Cyber Magnet School integrating Microsoft Office applications, Web CT, and the use of Wacomb Tablets for student success

### **EDUCATIONAL OUTREACH GRANTS, \$785,452.98**

**Bernalillo Public Schools** \$15,000 to expand the technology and mathematics curricula by improving access for students grades 5-8 to the Intel Computer Clubhouse and implementing a Family Fun Math Night for PreK-5 students and their parents

**Bridges Project for Education** (Taos) \$15,000\* in core operating support to provide college counseling and student-preparedness programs at Mora and Penasco high schools to help send low-income, minority, and first-generation students to college (*year three of multi-year funding awarded in 2005*)

**Camino de Paz School** (Santa Cruz) \$15,000 to implement a solar energy project in which students will study solar photovoltaic systems, help design and install a school system, and produce educational materials for the general public explaining how it works and the energy savings accrued

**Chimayo Valley Boys and Girls Club** \$15,000\*\* to develop, implement and evaluate a computer literacy program for elementary school children in the communities of Chimayo and Abiquiu (*first year of multi-year funding awarded in 2007*)

**Chimayo Valley Boys and Girls Club** \$15,000\*\* to offer the Consistent Repetitive Tutoring of Elementary School Children (CORTES) program for children enrolled in after-school and summer programs (*year three of multi-year funding awarded in 2005*)

**Dixon Elementary School** \$15,000 to implement a math enrichment initiative to increase student understanding and achievement

**Earth Care International** (Santa Fe) \$15,000 to support the development of a teacher-training curriculum focusing on environment science and sustainability

**Earth Works Institute** (Santa Fe) \$15,000 to train science teachers at Charter School 37, El Dorado Elementary School and Turquoise Trail Elementary School using living classrooms in schools and at critical resource restoration sites as an integrating context for staff and student learning

**Earth's Birthday Project** (Santa Fe) \$15,000\* to support Butterfly Classroom 2007, a life-science and computer learning project for 7,500 students in 300 northern New Mexico elementary classrooms (*year three of multi-year funding awarded in 2005*)

**Eight Northern Indian Pueblos Council** (San Juan Pueblo) \$10,000\*\* to support the Department of Education college bridge programs working to successfully transition northern Pueblo youth from secondary to post-secondary education (*year two of multi-year funding awarded in 2006*)

**Eight Northern Indian Pueblos Council** (San Juan Pueblo) \$15,000 to assist in the planning and start-up of the Native Institute of Technology Early College (NITEC), a new charter, early college high school which will prepare northern New Mexico youth for careers in the fields of science, technology, engineering and mathematics

**Eight Northern Indian Pueblos Council** (San Juan Pueblo) \$15,858.32 to fund small STEM initiatives at regional Pueblo day and community schools

**Espanola Public Schools** \$15,000 to purchase supplies and materials necessary to implement the new district math adoption initiative

**Espanola Regional Quality Center** \$85,000 to create and sustain infrastructure to support a systems approach to continuous improvement in academic performance at Espanola Public Schools

**Espanola Regional Quality Center** \$15,000 in core operating support to purchase supplies and materials necessary to support math improvement at Espanola Public Schools

**Espanola Valley High School** \$12,000 to purchase six sets of hand-held data collection equipment to support inquiry-based instruction in Chemistry, Physical Science and Physics

**Espanola Valley High School** \$15,000\*\* to give youth a forum and tools to express their feelings about problems they have at home and to share their ideas with the larger community through video production (*year three of multi-year funding awarded in 2005*)

**Explora Science Center and Children's Museum** (Albuquerque) \$10,000\*\* to provide experiential science education for third through fifth-grade students and their teachers from Title-1 eligible schools in Northern New Mexico (*first year of multi-year funding awarded in 2007*)

**Family YMCA** (Los Alamos) \$15,000 to support a student information technology center serving youth in the Espanola Valley

**Futures for Children** (Albuquerque) \$9,000\* in core operating support to improve the quality of educational resources to K-12 American Indian students in Jemez and Tesuque Pueblos through mentoring and training (*year two of multi-year funding awarded in 2006*)

**Girls Incorporated in Santa Fe** \$14,680 to expand the impact of Operation Smart, a program that offers girls (ages 5-18) hands-on activities that give them the opportunity to explore, ask questions and solve problems in science, technology, engineering and mathematics

**LANL/NNM Pueblo Elementary Schools Consortium** (Espanola) \$15,000\*\* to purchase supplies for Pueblo elementary school teachers and students to conduct workshops and classroom sessions in math and science (*first year of multi-year funding awarded in 2007*)

**Mentoring New Mexico** (Santa Fe) \$15,000 in core operating support to implement innovative, gender-specific educational initiatives to improve student basic math skills at Espanola, Pecos, Pojoaque and Santa Fe schools

**Multipleminds Educational Foundation** (Santa Fe) \$15,000 to deliver an inquiry and technology-based after-school program enabling high school Espanola youth to develop their scientific and digital media communications skills and value the role of science and technology in improving quality of life in the 21st century through engagement in scientific research, analyses, synthesis, and formulation of alternatives in the format of a science movie documentary

**New Mexico Adventures in Supercomputing Challenge** (Albuquerque) \$10,000\*\* to enable teams from Northern New Mexico to participate in the Student Project Expo and Awards Ceremony where they are able to present their computational science projects, receive feedback from scientists, and celebrate their program participation (*first year of multi-year funding awarded in 2007*)

**New Mexico Adventures in Supercomputing Challenge** (Albuquerque) \$15,000 to enable teachers from Northern New Mexico to attend the 2008 Summer Teacher Institute, a professional development workshop for middle and high school teachers in computational science

**New Mexico Community Education Association** (Taos) \$15,000 to boost region-wide performance on 6th and 7th grade Earth Science Benchmark Standards through science teacher certification in Permaculture Design and Service Learning

**NM MESA, Inc.** (Albuquerque) \$10,000\* in core operating funding to support pre-college programs at 24 Northern New Mexico middle and high schools (*year three of multi-year funding awarded in 2005*)

**Northern New Mexico College** (Española) \$10,000\*\* to support the Engineering and Technology Academy Bridge Program that allows high school students to concurrently enroll in science/technology classes, participate in IT internships, and get an early start on engineering and technology degree programs (*year two of multi-year funding awarded in 2006*)

**Northern New Mexico College** (Española) \$12,670 to establish a Smart Laboratory for teaching introductory courses in anatomy, physiology, and biological sciences using state-of-the-art digital and web-based teaching technology

**Northern New Mexico College** (Española) \$13,245 to develop student learning outcomes, design program level assessments and produce baseline student learning in STEM-related areas

**Northern New Mexico College** (Española) \$15,000 to provide teacher education students with state-of-the-art instructional technology in order to improve the effectiveness of teaching STEM content

**Northern New Mexico Math and Science Academy** (Española) \$85,000 in core operating support to continue a 10-year partnership with LANL and the Foundation to improve math and science in regional schools through teacher training

**Pecos Independent Schools** \$15,000\*\* to fund a science/math coach who will conduct hands-on outdoor learning and supervise the district science fair while integrating math concepts into curriculum (*first year of multi-year funding awarded in 2007*)

**Pecos Independent Schools** \$15,000 to fund technology-supported instruction for teachers in basic technology literacy and advanced instructional methods

**Pojoaque Valley High School** \$15,000 to equip science laboratories with up-to-date biotechnology and microbiology equipment as well as offer relevant professional development

**Rio Grande Globe Partnership** (Los Alamos) \$15,000 in core operating support to create a hands-on, inquiry-based environmental study program funded by the National Science Foundation to enrich standards-based math and science education curricula

**Rivers and Birds** (Arroyo Seco) \$15,000\*\* to support the Watershed Learning Project, a hands-on outdoor science program for four public school fifth-grade classes (*first year of multi-year funding awarded in 2007*)

**Rocky Mountain Youth Corps** (Taos) \$15,000\* in core operating support to provide meaningful community service opportunities for youth ages 16-25 from underserved communities in Northern New Mexico (*year three of multi-year funding awarded in 2005*)

**Sangre de Cristo Girl Scouts Council** (Santa Fe) \$15,000\*\* to support a year-long literacy project which weaves together illustration, writing, story-telling, broadcasting, and technology in programming aimed at girls ages 6-13 who are from underserved areas including public housing and after-school programs in Espanola, Las Vegas, Santa Fe and Taos (*year two of multi-year funding awarded in 2006*)

**Santa Cruz Irrigation District** \$15,000 in matching funds for a preliminary engineering and sediment sampling analysis and project management plan for the dredging/restoration of the Santa Cruz Reservoir by the U.S. Army Corps of Engineers

**Santa Fe Children's Museum** \$10,000 to support a science program that involves children, teachers and parents in the scientific process, promotes the exploration and conservation of nature, and nurtures children's involvement in scientific discovery

**Santa Fe Institute** \$12,000 to provide after-school transportation and funding for a Project GUTS middle school student conference held in conjunction with the Supercomputing Challenge's Expo Day at Los Alamos National Laboratory

**Santa Fe Science Initiative** \$15,000\*\* in core operating support to continue to expand the reach of improved inquiry science instruction in Santa Fe elementary schools (*first year of multi-year funding awarded in 2007*)

**SER Jobs for Progress** (Santa Fe) \$10,000\*\* in core operating support to provide quality childcare for SFPS teen parents as they complete their high school education and GED (*year three of multi-year funding awarded in 2005*)

**St. Vincent Hospital Foundation** (Santa Fe) \$7,500\*\* to support the Healthcare Career Development Institute, a summer educational program designed to introduce qualifying 9th and 10th grade students to nursing and medical technician careers (*year two of multi-year funding awarded in 2006*)

**Strengthening Quality in Schools** (Albuquerque) \$15,000 to build a Baldrige pilot district and demonstration schools at Los Alamos Public Schools to continuously improve systems performance and academic achievement in math

**Strengthening Quality in Schools** (Albuquerque) \$15,000 to build a Baldrige pilot district and demonstration schools at Pojoaque Valley Schools to continuously improve systems performance and academic achievement in math

**UNM-Los Alamos** \$10,000\*\* to support the Transition to Success Summer Bridge Program providing high school and GED graduates tuition (up to 8 credit hours), books fees, tutoring and mentoring as a bridge to higher education (*year two of multi-year funding awarded in 2006*)

**UNM-Taos Adult Basic Education and the Family Resource Center** \$7,500\*\* to create a community bridge for low-income residents of Taos County to transition from adult basic education to higher education (*year two of multi-year funding awarded in 2006*)

**Vecinos del Rio** (San Juan Pueblo) \$15,000 to substantially improve the Mesa Prieta Petroglyph Project by expanding scientific issues addressed in the Summer Youth Internship as well as curriculum (for 4th-9th grades) with enhanced and innovative science, math and technology learning experiences

**YouthWorks!** (Santa Fe) \$15,000 to implement Street Science, a hands-on math and science service learning program for high-risk students who are involved in the juvenile justice system or who have dropped out of school

\* Three-year grants accrued in 2005 and 2006

\*\* Three-year grants awarded in 2005, 2006, and 2007

### **SMALL EDUCATIONAL OUTREACH GRANTS, \$33,000**

**Academy for Technology and the Classics** (Santa Fe) \$1,000 to help purchase a lifetime subscription and warranty for a Weatherbug weather station (hardware and software) and a motion-capable camera to provide hands-on environmental science inquiry, observation, data collection, and analysis

**Agua Fria Elementary School** (Santa Fe) \$1,000 to engage students in inquiry-based scientific thinking and practice through the exploration of renewable and non-renewable energy modalities that will include the building of a solar-powered model car

**Arroyos Del Norte Elementary School** (Taos) \$1,000 for educational materials to implement an experiential collaborative unit of study (the "Marsville" project) designed to inspire students to pursue math, science and technology studies

**Arroyos del Norte Elementary School** (Taos) \$1,000 to purchase a printer, 4GB flash drive, DLP Projector, and PrintShop software to create a functional technology lab for 30 special needs students

**Association of Fundraising Professionals - New Mexico Chapter** (Albuquerque) \$1,000 to provide tuition waivers for NNM STEM nonprofits to attend professional development workshops in fundraising

**Capital High School** (Santa Fe) \$1,000 to help purchase Xplorer GLX Earth/Space, Life and Physical science inquiry systems (including PASPORT light, carbon dioxide, magnetic field, turbidity, weather, temperature and water quality sensors) to explore environmental conditions and problems through experimental procedures, observation, and accurate data collection, analysis and interpretation

**Carinos Charter School** (EPS - San Juan Pueblo) \$1,000 to purchase animals and feed to support life science courses in agriculture and animal husbandry

**Carlos Gilbert Elementary School** (Santa Fe) \$1,000 to purchase field guides, cameras, topographic maps (open space land), and a Garmin GPS 60 to study the ecotone characteristics of the Santa Fe region (including vegetation, slope, elevation and soil types)

**Carlos Gilbert Elementary School** (Santa Fe) \$1,000 to purchase Lego Mindstorm kits and materials to enable special education, gifted and talented, and resource students to build computer-interfaced, robot-type models through hands-on science materials, engineering manipulatives and advanced technology

**Center for the Education and Study of Diverse Populations (CESDP) and the Ben Lujan Leadership and Public Policy Institute** (Espanola) \$1,000 to send four New Mexico Highlands University students to the ATHGO (Alliance Toward Harnessing Global Opportunities) Fifth Annual Global Forum titled "Global Warming: Changes in Attitude Not the Weather" to be held at UCLA, February 27-March 1

**DeVargas Middle School** (Santa Fe) \$1,000 to fund registration fees, transportation, and supplies (reference books, specimen/collection sets, model-building materials and tools) to enable 40 students to participate in the regional and state Science Olympiad, increasing their interest and competence in the areas of science, math and engineering

**Dixon Elementary School** \$1,000 to purchase environmental and earth science materials including a weather station, soil test kits, specimen boxes, compost drum, rain barrel and hoses, and science journals to support a hands-on gardening/composting and recycling project

**Educational Synthesis Foundation** (Dixon) \$1,000 to plan a series of 4-hour workshops for students and adults that will examine the science/technology and engineering requirements for developing sustainable energy modalities within the Embudo Valley community

**Embudo Valley Library and Community Center** \$1,000 to help support Ahora Afterschool!, a homework and individual tutoring program with an emphasis on elementary math and science learning

**Enos Garcia Elementary School** (Taos) \$1,000 to support the "Make the Right Move Project" designed as a pilot, after-school program to develop math skills and critical thinking through the instruction of chess by older middle and high school peers/mentors. This program will also be a "laboratory school" pilot for UNM-Taos math instructors and students.

**Family YMCA** (Los Alamos) \$1,000 to provide hands-on equipment for Earth Service Corps, an environmental education service-learning program

**Holy Cross School** (Española) \$1,000 to purchase *Accelerated Math Learning Cards* to supplement the school's computer-based *Accelerated Math Program*, a program that facilitates the "self-paced" mastery of fundamental math concepts. These math supplemental materials will help students learn independently, master grade-level concepts, and improve problem-solving skills through practice and immediate feedback.

**Kearny Elementary School** (Santa Fe) \$1,000 to purchase innovative science kits for year-long, hands-on activities in physics, chemistry, astronomy, robotics, solar technology, engineering and electronics, as well as participation in a school-wide Science Exploratorium

**New Mexico School for the Deaf** (Santa Fe) \$1,000 to purchase equipment and materials to support hands-on astronomy studies for pre-K through 2nd-grade students

**New Mexico Science Teachers Association** (Albuquerque) \$1,000 to support a one-day laboratory safety training workshop for Northern New Mexico secondary science teachers

**Pajarito Environmental Education Center** (Los Alamos) \$1,000 to support Spring/Summer science and nature field trips for Los Alamos elementary schools

**Pinon Elementary School** (Santa Fe) \$1,000 to purchase equipment to support "Energy from Ions", a study of ionizing radiation by 6th-grade students

**Pojoaque Valley High School** \$1,000 to create and conduct hands-on activities in clean, renewable, environmentally-friendly energy using wind-generated electricity produced from a simple, wind-driven turbine

**Ranchos Elementary School** (Taos) \$1,000 to purchase 4th-grade science readers to enhance the science and reading curriculum for students reading below grade level

**Rivers and Birds** (Arroyo Seco) \$1,000 to support the Wild Film Festival produced by youth interns, whose proceeds will benefit innovative and effective hands-on science programs on water conservation and ecology to public school students in Rio Arriba, Santa Fe and Taos counties

**Santa Fe Botanical Garden** \$1,000 to add hands-on activities to the Wetland Science Program serving 3rd-grade students at Santa Fe Public Schools

**Santa Fe High School** \$1,000 to purchase math manipulatives for engaging math activities in the areas of fractions, ratios and probability to help increase the math literacy of at-risk youth

**Santa Fe High School** \$1,000 to purchase four computer microscopes and reusable earth/environmental/life science kits to conduct innovative hands-on, inquiry-based lab experiences addressing state science standards for 9th-grade and special education students

**Santa Fe Public Schools** \$1,000 to purchase nine HP 9010 batteries for laptops to be used as assistive technology by students with physical disabilities and low vision. This technology will enable these students to access curriculum alongside peers in the classroom and at home, as well as meet educational goals in technology identified in their Individualized Education Plan (IEP)

**Self Help, Inc.** (Los Alamos) \$1,000 to help provide school math supplies for disadvantaged Northern New Mexico children including notebooks, paper, pencils, compasses, protractors, calculators, and other essential materials

**Taos Middle School** \$1,000 to purchase robotics activity kits that can be interfaced with computers as a curriculum tool to connect scientific principles with technology

**Taos Middle School** \$1,000 to purchase general science *PASCO Probeware* that will enable teachers and students to explore physical, life, environmental and earth sciences and integrative math as well as data collection and analysis through sensors, interfaces and data collection software, including a temperature probe, colorimeter, conductivity/turbidity/carbon dioxide/dissolved oxygen/pH sensors. These computer-interfaced student activity kits will integrate scientific principles with the application of real-world technology.

**West Las Vegas High School Mathematics Department** \$1,000 to purchase classroom graphing calculators for student and teacher use as a tool for expediency, amplifier for conceptual understanding, catalyst for critical thinking, and vehicle for integration (connecting ideas of algebra, geometry, measurement, and probability and statistics)