

*The Morrill Act of 1862 established a Land Grant University  
in each state where **The Leading Object**  
would be instruction in agriculture and related fields*



## NMSU's College of Agriculture and Home Economics

Vol. 17, No. 7, July 2003

### The Dean's Perspective

The announced departure of President Jay Gogue after three years at NMSU has been greeted with expected speculation about the future. First, let's be glad about some good progress made during President Gogue's tenure. As I said at our awards day ceremonies, the president spent a good amount of his energy remembering to say thank you to those who contribute to the university community. A number of new awards and endowed chairs came into being under his leadership.

At the same time, he improved the university's standing with the state Legislature by being personally available to decision-makers. In the same way, he made himself personally available to those who were in a position to give personal resources to the university. He stressed throughout his tenure that NMSU had to face the fact that it was underachieving in the development arena and the university community needed to work hard to turn that around. A commitment to reduce bureaucratic obstacles and a vision to take our place in distance education are other important legacies.

At a time like this, it is good that faculty can carry on without the head person. We all have our work and our goals, and we are personally motivated. Still, the institutional structure can take the lessons of this administration and continue to make our university a better place. Thank you, Dr. Gogue, for your contributions.

### Ross wins distinguished teaching award

Tim Ross, NMSU animal science professor, received the Distinguished Teaching Award from the American Society of Animal Science at its Western section meeting June 25 in Phoenix, Ariz.

Ross has taught undergraduate and graduate courses in introductory animal science, sheep and wool production, environmental physiology and graduate research methods in animal science. More than 1,500 students have taken his freshman introductory animal science course since 1986.

Ross has served as faculty adviser to the Block and Bridle Club, Alpha Zeta and Pre-Vet Club. He currently advises 21 master's degree and 10 doctoral students.

Colleague Jack Thomas attributes Ross' popularity with students to his patience, understanding and enthusiasm in the classroom. Thomas said Ross gives each student his undivided attention and respect. "There have been many times when students were lined up outside his office waiting their turn to see him," Thomas said in his nomination letter. "They insist on seeing Tim and are willing to wait their turn."

Dennis Hallford, animal science professor, said Ross has a strong rapport with students. "He has taught numerous courses and has done an exceptional job of advising students all the way from their freshman to graduate years."

An active member of the American Society of Animal Science since 1982, Ross has served on the teaching, graduate student competition, and advisory and co-

ordinating committees. He has authored and co-authored 25 journal articles, 76 abstracts, three research bulletins, one book chapter and 61 Western section proceeding papers.

Ross chaired NMSU's Graduate Council and Athletic Council and served on the Faculty Senate. An assistant department head, he has served on various animal and range sciences committees and the college promotion and tenure committee, academic appeals board and department heads' council.

In 1997, Ross received a grant from International Programs at NMSU to study livestock production in Mexico. That year, he received one of only four U.S. Department of Agriculture fellowships to gain firsthand experience with the Agricultural Marketing Service.

Ross has been named an Honorary State Farmer and received the New Mexico FFA Distinguished Service Award in 2000. In 1995, he received the Teaching Award of Merit from the National Association of College Teachers of Agriculture. In 1994, he received the Distinguished Award for Graduate Teaching and Advising from the New Mexico Chapter of Gamma Sigma Delta.

Ross earned bachelor's and master's degrees in animal science from the University of Arkansas in 1973 and 1977, respectively. He received a doctorate in reproductive physiology from North Carolina State University in 1982.♣

## College news coverage up in two languages

Agricultural Communications' reporting group has attracted lots of coverage for NMSU, said D'Lyn Ford, assistant director for media relations.

Research stories have moved on the Associated Press wire service an average of once per month over the past 20 months and appeared in *Southwest Farm Press* an average of twice per month. In the past year, 48 articles appeared in the *Albuquerque Journal*, half in regional editions and half in the state edition. Another 15 stories appeared in the *Albuquerque Tribune* and 25 articles in the *Santa Fe New Mexican*.

In 2002-2003, 42 articles released in Spanish appeared in New Mexico's Spanish-language press. Spanish-speaking faculty were booked on five radio and eight television programs, and six Spanish-language radio stations regularly receive news en español from Agricultural Communications. Overall, more than three dozen radio stations, 10 TV stations and two national TV outlets receive news regularly from the college.

The reporting group includes Ford, science writer Norman Martin, broadcast coordinator Anna Perez-Wright, photographer Victor Espinoza and Albuquerque-based writer and media relations staffer Kevin Robinson-Avila. The group does most of the writing and photography for the college's award-winning periodicals, *Sam Steel Way* and *New Mexico Resources*.

## Chile Pepper Institute unveils migrant scholar program

NMSU's Chile Pepper Institute has found an innovative way to spice up the summer with scholarships for students with migrant roots.

A two-year, \$120,000 grant from the National Science Foundation funded the creation of a summer program called ASSURED, short for Agricultural Summer Science Undergraduate Research, Education and Development program.

The goal is to introduce students with migrant backgrounds to agricultural research and broaden their interest in scientific studies, said Danise Coon, the institute's assistant director. "We're looking for kids who really want to know how research is done and have an interest in agriculture."

Nine students who are U.S. citizens from first- and second-generation migrant families in the United States are working with NMSU's internationally recognized chile breeders. Program participants are high school students with some college credits, and university freshmen or sophomores.

In addition to a \$3,000 stipend, students receive a cash allowance for meals and housing in one of NMSU's dormitories, limiting students' expenses to travel costs, she

said. The eight-week program began in June and runs through Aug. 1.

During the summer session, students are being mentored by Coon and faculty and graduate students in Agronomy and Horticulture. At the end of the session, students will write a research paper, give an oral presentation and complete a scientific poster about their results. Two of the students will be selected to return to NMSU next February to present their results at the international New Mexico Chile Conference.

The institute is one of the world's leading research centers for chile, said Paul Bosland, a chile breeder and the institute's director. Students will gain firsthand experience with NMSU's genetic breeding and variety development research, as well as disease and insect control methods.

In addition, the summer scholars will review development of colorful new lines of ornamental chile peppers and draw on NMSU's massive chile demonstration garden, which has more than 150 varieties. The facility at the Fabian Garcia Research Center is one of the largest public chile gardens in the world.♣

## Committee reviews college events

Dean Jerry Schickedanz will be taking recommendations on special events from a committee that is reexamining their purposes and effectiveness.

College development officer Barbara Wise is chairing the committee that includes faculty members Lowell Catlett, Lisa McKee and John Mexal; interim associate dean Don Lindsey; college ambassador Andy Giron; administrative assistant to the dean Elizabeth Crabb; and Agricultural Communications head Terry Canup.

Events under review include the opening day program in August, mentor/mentee barbecue, emeritus breakfasts, homecoming activities, Agriculture and Home Economics Week activities, Sam Steel ceremonies, Christmas celebration, All-College Conference, Crimson Scholar receptions, Awards Day, Agriculture and Home Economics Council Banquet and emeritus picnic.

Recommendations on these events will be made to the dean this month.♣

# NMSU hosts State 4-H Conference July 14-18

Nearly 500 4-H members will learn new skills, earn scholarships, elect new officers and take part in a whirl of activities at the 80th annual State 4-H Conference July 14-18 on campus.

With the theme "4-H: The Thrill of a Lifetime," the conference offers several new twists this year, including a talent show and digital camera workshop. Shooting sports contests usually held during the conference were moved earlier in the year to coincide with national competitions.

However, members will still compete in more than 30 events, including livestock judging, home economics presentations, fashion revue and public speaking.

Students can win scholarships, plaques, medals and ribbons. Scholarships and trips to the National 4-H Congress will be awarded to members who submitted winning record books of their 4-H project, leadership and citizenship activities.

When they're not competing, 4-H members can take tours of campus, Aldershot's greenhouses, the F&A Dairy cheese plant and Coldstone Creamery. Members can also attend workshops offered by the ambassadors, diplomats and officers about learning opportunities for senior 4-H members.

Delegates from each county will elect seven new officers to serve on the 2003-2004 State Leadership

Team. The officers will help lead 4-H activities, such as the state fair and community service projects statewide.

"4-H is an opportunity for all youth to have a chance at growing and developing in an environment that will teach them valuable life and leadership skills they can apply in their lives both presently and in the future," said Amy Zemler, 4-H youth activities specialist. "It gives kids some ideas of career opportunities in agriculture."

For more information about the state conference, contact Zemler at 646-5204 or the state 4-H office at 646-3026.✦

## Agricultural Communications staff win awards

Agricultural Communications staff won recognition for leadership, publications, an innovative Web site and the regional "Southwest Yard and Garden" public television show during recent communications, development and video contests.

Last month, staff members accepted three gold awards and a Pioneer Award at the Agricultural Communicators in Education national conference in Kansas City, Mo.

Natalie Johnson, assistant director for Agricultural Communications' prepress/publishing group since June 2000, was the Western region Pioneer winner. The award recognizes exceptional leadership, technical skills and contributions to ACE during the first 10 years of membership.

Johnson is vice chair of the ACE Publishing Special Interest Group and a past state representative for New Mexico. Her honors include outstanding ACE professional skill awards in publishing and audio. She

has been active in Las Cruces Press Women, serving as treasurer and secretary. In 1996, she won first place in the National Federation of Press Women communications contest for public affairs writing.

Since joining NMSU in 1993, Johnson also has served as assistant editor and media specialist with the department's reporting group. She was the group's primary science and impact writer, serving on a regional impact statement committee.

Johnson edits and oversees production of research and Extension publications, promotional materials and *New Mexico Resources* magazine. *Resources* won a gold award from ACE in the magazine and periodicals category and a second in four-color alumni and donor publications from the National Association of Agricultural Alumni and Development Association (NAADA).

The *Sam Steel Way* alumni newsletter, edited by D'Lyn Ford, won a gold award in the newsletter category from ACE and a third in

alumni and donor publications from NAADA.

Team members for both publications are graphic designer Joanna Stith; photographer Victor Espinoza; writers Norman Martin, Kevin Robinson-Avila and Anna Perez-Wright; and illustrator Jerry Downs.

Barbara Chamberlin, Jeanne Gleason, Pamela Martinez and Elizabeth Sohn won an ACE gold for innovative use of communications technology. Their interactive Web site, "Food Detectives Fight BAC," uses Flash animation to engage 8- to 12-year-olds in learning food safety principles, such as handwashing, heating foods thoroughly and refrigerating leftovers.

In video competition, "Southwest Yard and Garden," a regional public television program, garnered an Award of Excellence from The Videographer Awards, a silver from ACE and a bronze Telly Award. Team members are Mike Ferrales, Patrick Holian, Tomilee Turner, Ken Downer, Jon Sims and Pamela Martinez.

## Rogers leads 4-H in Colfax County

Catherine A. Rogers is leading 4-H programs for the Colfax County Extension office.

She coordinates countywide 4-H programs and events, such as livestock exhibits for the county fair and shooting sports competitions for the county and district. She hopes to increase youth participation in 4-H by organizing new clubs in unserved locations such as Angel Fire, Eagle Nest and the New Mexico Boys School in Springer.

"Currently only about 100 kids here in Colfax County are active in 4-H," Rogers said. "One of my goals is to double enrollment and participation."

A native of Liberty, Texas, Rogers grew up riding horses on her grandfather's ranch in southeast Texas. She worked for three sum-

mers—in 1993, 1994 and 1999—as a horseman and wrangler at Philmont Scout Ranch in Cimarron and fell in love with Colfax County.

"I grew up near the Gulf of Mexico where it's flat, hot and humid, so I'm thrilled by the opportunity to live and work here, where there are mountains, dry, cool summers and laid-back, friendly people," Rogers said.

Rogers earned a bachelor's degree in animal science from Texas Tech University and a master's degree in animal science from NMSU.

As an undergraduate in Lubbock, she worked as an assistant analyst at A&L Plains Agricultural Labs from 1997 to 1999, where she helped test water for livestock and crops, and as an administrative assistant with the U.S. Department of Agriculture from 1999 to 2000.

After graduating from Texas Tech in 2000, Rogers began her master's degree studies in Las Cruces.

At NMSU, she worked as a research assistant, evaluating conception rates in dairy heifers using proper semen handling techniques and studying the effects of additional feeding on carcass characteristics and antibiotic residues in cows given antibiotics for illnesses. Rogers assisted professors with undergraduate classes and had opportunities to help with the horse judging program and equitation classes.

"I'm excited to be a part of the New Mexico 4-H program and hope to be an influence on the lives of current and future Colfax County 4-H members," Rogers said.

## Arthropod Museum holds open house

The Arthropod Museum in Entomology, Plant Pathology and Weed Science will hold an open house July 16 from 1 to 4 p.m. in Skeen Hall Room W168.

Curator David Richman, a science specialist, said the event's goal is to educate people about the museum and what it does.

Home to 140,000 sorted and unsorted insects, spiders and crustaceans, the museum has had an active outreach and insect identification program for nearly 20 years.

This year, about 6,000 children have learned the intimate details of arthropods through museum tours and volunteers' visits to preschool through high school classrooms in New Mexico and Texas. The museum also assists with FFA, 4-H and other events.

Nearly 3,000 children from kindergarten to third-grade were educated and entertained at the fifth annual Insect Expo sponsored by the Chihuahuan Desert Nature Park in May, when 50 volunteers displayed live bugs and coordi-

nated 22 activity stations for the children.

Thanks to the museum, adults and children see an amazing array of arthropods from hissing cockroaches to honey bees. One of Richman's signature displays, his "Oh My" insects, includes insects kids don't get a chance to see except in movies, such as the 6-inch Hercules beetle. Other creepy-crawlies include giant scorpions, violin spiders and a birdwing butterfly with a foot-long wingspan.

Richman said that he wants to impress on young and old minds alike how important insects are to humans. "We share a planet with several million species of insects, at least," he said. "There are a tremendous number of insects that are beneficial to us." Richman said that insects influence our daily lives, right down to grocery shopping for fresh fruit, which was pollinated by bees.

The Arthropod Museum was the first to correctly identify red imported fire ants in Hidalgo

County and the first Japanese beetle in New Mexico.

People show up on the museum's doorstep every year with wayward bugs from their homes or crops. Staff help them identify the insects and learn whether the bugs are harmful to humans, animals or crops.

Richman said, he would like to expand the museum under the Center for Natural History Collections. "We would like to eventually unite every natural science collection on campus into a natural history museum," he said. It would allow curators to catalog their collection of insects in a database and improve educational programs about insect invasions and changes in insect populations.

Richman said he hopes the open house will help boost support for the Arthropod Museum so that it can continue its outreach.

For more information, contact Richman at 646-2900 or e-mail him at [nmbugman@taipan.nmsu.edu](mailto:nmbugman@taipan.nmsu.edu).♣

# Grants

- Abbott, L., Ecological Role of Black Grama and Fungal Endophytes on Desert Rangelands, \$18,980, U.S. Department of Agriculture through Southwest Consortium.
- Abbott, L., Rangeland Restoration Using a Process-Oriented Approach, \$17,813, National Science Foundation–ADVANCE.
- Andersen, M., Applications of Population Viability Analysis and Related Methodologies to Risk Analysis for Invasive Species, \$88,000, U.S. Department of Agriculture–Animal and Plant Health Inspection Service (APHIS).
- Baker/Puppala, New Mexico Peanut Research, \$16,246, New Mexico Peanut Research Board.
- Bender, L., Identification of Factors Limiting Mule Deer and Development of Corrective Management Strategies Along the Upper Santa Fe Trail, New Mexico, \$30,000, Santa Fe Trail Mule Deer Adaptive Management Project (STAMP).
- Boren, J., Foraging Relationships Between Elk, Mule Deer and Cattle on Southwestern National Forests, \$80,150, U.S. Department of Agriculture–U.S. Forest Service–Rocky Mountain Research Station.
- Bosland, P., Improvement of Cayenne Cultivars for Earliness, Increased Yields, and Resistance to Chile Wilt, and Root Knot Nematodes for Production in Southern New Mexico, \$7,000, New Mexico Chile Commission.
- Bosland/Coon/Hamilton, Agricultural Science Summer Undergraduate Research, Education and Development Project (ASSURED), \$130,086, National Science Foundation–Division of Biological Infrastructure.
- Byford, R., CAPS Program Support and Data Management FY 2002, \$12,225, U.S. Department of Agriculture–Animal and Plant Health Inspection Service–Plant Protection and Quarantine.
- Byford, R., Comparison of Old and New IGR Formulations–Spring 2002, \$33,000, ADM Alliance Nutrition Inc.
- Byford, R., Cooperative Forest Pest Management, \$48,100, State of New Mexico–Energy, Minerals, and Natural Resources Department.
- Byford, R., Elanco Animal Health Clinical Research Study Agreement, \$156,950, Elanco Animal Health Clinic.
- Byford, R., Establishment and Maintenance of NMSU IR-4 Research Center, \$100,000, New Mexico Department of Agriculture (NMDA).
- Byford, R., Field Research Center Funding (IR-4) Project, \$53,000, U.S. Department of Agriculture–Cooperative State Research, Education and Extension Service through University of California-Davis.
- Caldwell, C.A., Distribution, Status, and Viability of Rio Grande Cutthroat Trout and Native Fish Species in the Middle Rio Grande Basin, \$15,520, U.S. Department of Agriculture–U.S. Forest Service.
- Caldwell/Caccamise, Culture and Life History Aspects of Native Fish in New Mexico, \$82,262, U.S. Department of the Interior–U.S. Geological Survey.
- Caldwell/DuBey, Ecological Differentiation and Survivability of *Tubiflex* Infested with *Myxobolus Cerebralis* in the San Juan River, \$25,000, Whirling Disease Initiative of the National Partnership for the Management of Wild and Native Coldwater Fisheries.
- Castillo/Runyan, Sustainable Agriculture: A Tour of Best Practices in New Mexico, \$30,000, Western Region Sustainable Agriculture Research and Education (SARE).
- Chacon/LeFevre, Two-State Jicarilla Apache Extension Project, \$73,995, Extension Indian Reservation Program.
- Chacon/Watts, Zuni Indian Tribal Extension Agricultural and 4-H Youth Agent Proposal, \$71,809, U.S. Department of Agriculture–Cooperative State Research, Education and Extension Service.
- Coppedge, R., Efficient Irrigation for Water Conservation in the Rio Grande Basin, \$419,024, U.S. Department of Agriculture–Cooperative State Research, Education and Extension Service through Texas A&M University–Texas Agricultural Extension Service.
- Coppedge, R., Policy and Program Coordination, \$289,945, U.S. Department of Agriculture–Foreign Agricultural Service.
- Coppedge, R., Technical Assistance/Support Energy and Environment Program, \$875,860, U.S. Department of Agriculture–Foreign Agriculture Service–International Cooperation and Development–Development Resource Division.
- Cowley/Roemer/Caccamise, Elephant Butte Fishery Studies, \$96,500, State of New Mexico–Department of Game and Fish.
- Cramer, C. S., Development of Improved Onion Varieties in New Mexico, \$51,000, New Mexico Dry Onion Commission.
- Daugherty/Thompson, Agreement for Establishment and Operation of the New Mexico Cooperative Fish and Wildlife Research, \$60,150, U.S. Department of the Interior–National Biological Service.
- Defoor, P., Effects of Direct Fed Microbials on Performance of Finishing Beef Steers, \$14,250, Nutrition Physiology Corporation.

## Grants (continued)

- DelCampo/Hamilton/Ramsey, CYFAR: Building on the Strengths of New Mexico's Families, \$150,000, U.S. Department of Agriculture-Cooperative State Research, Education and Extension Service.
- Desmond, M., Grassland Bird Wintering Ecology on the Gulf Coast of South Texas and Northern Mexico, \$15,000, National Park Service.
- Desmond, M., Influence of Seed Production and Habitat Associations on Chihuahuan Desert Avifauna, \$26,725, National Science Foundation-ADVANCE.
- Devall, E., "Can We Talk?" and "¿Conversamos?" National Evaluation, \$5,005, National Education Association (NEA)-Health Information Network (NIH).
- Devall, E., MOA with Ben Archer Health Center, Hatch, \$5,000, Ben Archer Health Center.
- Devall, E., Statewide Evaluation of "Can We Talk?" Program, \$19,995, National Education Association (NEA)-Health Information Network (NIH).
- Dictson, B., Technical Assistance/Support, \$125,401, U.S. Department of Agriculture-Foreign Agriculture Service.
- Drummond, T., Reaching New Underserved 4-H Youth Audiences-Catron County, \$173,006, U.S. Department of Justice-Office of Justice Programs-Office of Juvenile Justice and Delinquency Prevention.
- Ellington, J.J., Sustainability of Bt Cotton in the Southwest, \$22,957, U.S. Department of Agriculture through University of Arizona.
- English, M., Los Lunas Plant Materials Center-FY 2003, \$115,000, U.S. Department of Agriculture-Natural Resources Conservation Service.
- Fernald, A., Mora Watershed Environmental Monitoring and Assessment, \$95,000, La Jicarita Community Enterprise.
- Fisher/Phillips, Enhancing Crop Production for Mechanical Harvest of Chile Peppers, \$242,317, U.S. Department of Agriculture-Agricultural Research Service.
- Flores/McKee, Attending the "Gold Mine of Innovation and Knowledge"-IFT Annual Meeting and Food Expo and the IFT Continuing Education Program, \$33,363, National Science Foundation-ADVANCE.
- Flynn, R.P., Site-Specific Soil Variability in New Mexico Cotton Fields, \$11,600, Cotton Incorporated.
- Ghassemi/Flynn, New Mexico Organic Waste Utilization, \$93,536, U.S. Department of Agriculture-Cooperative State Research, Education and Extension Service.
- Gleason, J., CYFERNET Technology, \$18,585, U.S. Department of Agriculture-Cooperative State Research, Education and Extension Service through the University of Minnesota-Extension Service.
- Gleason, J., Improving Food Safety Education through Use of Music-Based Curricula, \$20,889, U.S. Department of Agriculture-Cooperative State Research, Education and Extension Service through University of California-Davis.
- Gleason, J., Mexican Food Meat Handling Safety Training Media for Minority and Hard-to-Reach Audiences, \$22,973, Northern New Mexico Community College-Food and Science Department.
- Gleason, J., Navajo Indian Meat Handling Safety Training Via Distance Education, \$24,972, U.S. Department of Agriculture-Risk Management Agency.
- Gleason/Archuleta, Interactive Educational Software for Adolescent Training via CD-ROM and Web site, \$199,544, National Food Service Management Institute.
- Goldberg, N., Evaluation of *Brassica* Residue on the Incidence of Soil-borne Diseases in Chile, \$11,250, New Mexico Chile Commission.
- Gomez, E., Third Annual National Small Farm Conference 2002, \$15,000, U.S. Forest Service.
- Gomez, E., Third Annual National Small Farms Conference, \$10,000, U.S. Department of Agriculture-Food Safety and Inspection Service.
- Gopalan/Thomas, S., Use of Proteomics to Develop Genetically Engineered Resistance to Rootknot Nematodes in Plants, \$25,000, Southwest Consortium on Plant Genetics.
- Guldan, S., Organic Farming Principles, Practices and Materials: Resources for Western Region Extension and U.S. Department of Agriculture Professionals, \$17,840, University of California.
- Hallford, D., Growth Promotants in Cattle, \$2,500, Southwest Biolabs Inc.
- Harrington, J., Seedling Research/Action Program, \$110,000, State of New Mexico-Energy, Minerals and Natural Resources Department.
- Harrington, J., Carbon Sequestration Potential of Southwestern Rangelands, \$13,000, U.S. Department of Agriculture-Cooperative State Research, Education and Extension Service-U.S. Environmental Protection Agency.
- Havstad, K.M., Desert Rangeland Management, \$150,000, U.S. Department of Agriculture-Agricultural Research Service.
- Jones, S., Reaching New Underserved 4-H Youth Audiences-Curry County, \$172,669, U.S. Department of Justice-Office of Juvenile Justice and Delinquency Prevention.
- Kemp, J.D., Option Agreement Between the Regents of NMSU, NMSU Technology Transfer Corp. and Agrigenetics Inc. doing business as Mycogen Seeds, \$45,000, Agrigenetics, Inc., d/b/a/Mycogen.

- Landers, K., McKinley County Herb Crop Demonstration Project, \$8,000, New Mexico Department of Agriculture.
- Leinauer, B., Effect of Irrigation Type, Root Zone Material and Root Zone Depth on Irrigation Efficiency and Water Use on Putting Greens in the Southwest, \$6,000, Golf Course Superintendents Association of America (GCSAA).
- Lewis, B. E., Reestablishing Control of the Corn Earworm, a Threat to the Green Bean Industry in Eastern New Mexico and West Texas, \$27,500, New Mexico Department of Agriculture.
- Martin/Guldan/Walser/Falk, Medicinal Herb Research, \$7,133, Organic Farmer Research Foundation.
- McDaniel, K. C., Grassland Restoration, \$15,000, U.S. Department of the Interior–Bureau of Reclamation.
- O'Connell, M., A New Cultivation System for Clean, Consistent Root Crops, \$10,132, U.S. National Institutes of Health–Department of Health and Human Services–Public Health Service through Native American Botanic Corporation.
- O'Connell/Phillips, Cataloging Genes Associated with Drought or Disease Resistance in Crop Plants, \$228,228, U.S. Department of Agriculture–Cooperative State Research, Education and Extension Service.
- Parker, R., Animal Production Food Safety Outreach Program for Small Beef, Sheep and Goat Producers in New Mexico and Oklahoma, \$18,000, U.S. Department of Agriculture through Langston University.
- Peters/Herrick, Carbon Sequestration Potential of Southwestern Rangelands, \$49,997, U.S. Department of Agriculture–Cooperative State Research, Education and Extension Service–U.S. Environmental Protection Agency.
- Pierce, J. B., Biological Control in Pecan/Alfalfa Cropping Systems, \$17,305, National Science Foundation–ADVANCE.
- Pierce, J. B., Impact of Crop Production Practices on Pest Populations in New Mexico, \$15,000, Cotton Incorporated.
- Puppala/Baker/Hawkes, Valencia Peanut Breeding for High Yield, Early Maturity and Resistance to Fungal Disease, \$76,000, U.S. Agency for International Development (USAID) through University of Georgia.
- Ray, I. M., Ensuring the Sustainability of Alfalfa Production in New Mexico, \$108,000, New Mexico Hay Association.
- Ray, I. M., Expression Profiling to Identify Drought Responsive Genes in Alfalfa, \$45,282, Southwest Consortium on Plant Genetics and Water Resources.
- Richardson, R., Reaching New Underserved 4-H Youth Audiences–Doña Ana County, \$171,913, U.S. Department of Justice–Office of Justice Programs–Office of Juvenile Justice and Delinquency Prevention.
- Roemer, G., Grassland Assessment, \$15,000, U.S. Forest Service.
- Runyan, C., Extension Indian Reservation Program Professional Development Application for Shiprock Agency, Navajo Nation, \$2,000, Utah State University.
- Runyan, C., Southern Region Watershed Resources Management Project–New Mexico, \$74,525, U.S. Department of Agriculture–Cooperative State Research, Education and Extension Service–IREE through Texas A&M University.
- Runyan, C., Implementation of Sustainable Agriculture Research and Education Professional Development Program for New Mexico, \$10,000, U.S. Department of Agriculture–Cooperative State Research, Education and Extension Service–Western Region SARE through Utah State University.
- Schickedanz, J., Joe Skeen Student Career Experience Program at NMSU, \$12,000, U.S. Department of Agriculture–Animal and Plant Health Inspection Service (APHIS).
- Schroeder, J., Evaluation of Herbicides for Weed Control in Chile Peppers, \$7,300, New Mexico Chile Commission.
- Schroeder, J., Impact of Crop Pests and Their Management on Weeds, \$1,832, National Science Foundation–ADVANCE.
- Schultz, L., Reaching New Underserved 4-H Youth Audiences, \$62,658, U.S. Department of Justice–Office of Justice Programs–Office of Juvenile Justice and Delinquency Prevention.
- St. Hilaire, R., 2003 Research and Engineering Apprenticeship Program (REAP), \$5,000, U.S. Army Research Office through Academy of Applied Science.
- Sterling, T. M., Weed Science Electronic Library Modules, \$1,999, American Distance Education Consortium.
- Thompson, B. C., Population Estimation, Demographics and Spatial Analysis of Oryx for Cooperative Management, \$60,185, U.S. Department of the Interior–U.S. Geological Survey–Biological Resources Division.
- Vail, A., Indoor Air Quality Education Program, \$2,500, U.S. Department of Agriculture–Cooperative State Research, Education and Extension Service and U.S. Environmental Protection Agency.
- Vail, A., New Mexico Healthy Homes, \$2,063, U.S. Department of Agriculture–Cooperative State Research, Education and Extension Service.
- Vail/Devall/Kratzer, Strengthening Families Initiative, \$400,000, State of New Mexico–Human Services Department.

## Grants (continued)

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Valdez, R., Movements, Habitat Relations and Prey Relations of Female Jaguars in Sonora, Mexico, \$17,000, Wildlife Conservation Society.

Valdez, R., Occurrence and Habitats of Jaguars in Northeastern Sonora, Mexico, and Southwestern New Mexico, \$5,000, U.S. Department of the Interior–Fish and Wildlife Service.

Walker/Fisher, Development of High Extractable Pigment (ASTA) Paprika Cultivars, \$10,000, Regents of the University of Colorado.

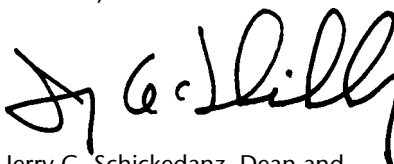
Whitfield/Rios, 4-H After School Department of Health Grant, \$7,500, State of New Mexico–Department of Health.

Wright, P., Reaching New Underserved 4-H Youth Audiences–Otero County, \$169,754, U.S. Department of Justice–Office of Justice Programs–Office of Juvenile Justice and Delinquency Prevention.

Zhang/Moser, Genetic Dissection of Heat Tolerance in Cotton, \$10,000, U.S. Department of Agriculture–Cooperative State Research, Education and Extension Service–Southwest Consortium. ❖

The Leading Object is dedicated to encouraging communication among all areas of NMSU's College of Agriculture and Home Economics.

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