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Agricultural Research Division News

Office of the Dean, 207 Ag Hall, P.O. Box 830704, Lincoln, NE 68583-0704, Phone (402) 472-2045, FAX (402) 472-9071

December 2003 Volume 36, Number 6

Comments from the ARD Office Staff

Dear Colleagues:

The ARD office staff extend our best wishes to you and your family for a happy holiday season and a great 2004. We hope that the holiday break will be a time of rest, reflection and renewal as you go forward into a new calendar year.

It is evident that 2003 has been a year of both challenges and great success. Many ARD faculty have been involved in moving the knowledge base ahead while others have provided solutions to immediate problems experienced by our clientele. It has been our honor to feature many of your research accomplishments in media news releases, **Research Nebraska**, the **ARD Annual Report** and **Endeavors**. We have been delighted with the response to your accomplishments by citizen advisory groups, commodity organizations, state and federal agencies and Nebraska citizens.

It is likely that the state of Nebraska will face some additional budget challenges during 2004. However, the state's economy appears to be improving at a rapid rate and farm income seems to be rising. Thus, there is considerable hope that IANR can return to some semblance of "normal" operations during 2004. Because of the significant budget cuts sustained by IANR during the past two years, our programs are markedly changed and will not return to those in place during 2001. Regardless of the budget situation, we are confident that ARD faculty will continue to carry out their teaching, research and extension duties with dedication and excellence.

Thanks for all of the cooperation and support that each one of you provided to the ARD office during 2003. This has been a particularly difficult year for ARD staff and we appreciate your understanding and assistance. We look forward to serving you in 2004.

The ARD Office Staff

Nelvie Nancy

Darrell Dora

Diane

Recognition of Junior Faculty for Excellence in Research

In 1991, the ARD Advisory Council established a program to recognize the research accomplishments made by junior faculty members. No more than two junior faculty are recognized each year. The recognition consists of a certificate, engraved plaque and $3,000 for use in professional development or research-related activities.

Criteria used to evaluate nominees include scientific publication record, especially those publications resulting from research at UNL, external grant funding and recognition by peers. A sub-committee of the ARD Advisory Council evaluates the nominations and recommends recipients to the Dean for Agricultural Research.

The following faculty members were selected for recognition during the 2003-2004 academic year:

Dr. Thomas E. Hunt, Assistant Professor, Haskell Agricultural Laboratory/Northeast Research and Extension Center/Entomology Department

Dr. Robert M. Harveson, Assistant Professor, Panhandle Research and Extension Center/Plant Pathology Department

Congratulations to Drs. Hunt and Harveson! A call for nominations is issued each year on about June 1. We encourage faculty and administrators to nominate deserving junior faculty in their units.

William G. Whitmore Student Travel Endowment

The William G. Whitmore memorial fund was established at the University of Nebraska Foundation in 1980 as a memorial to William G. Whitmore, a member of the Board of Regents at the University of Nebraska from 1902-1916. The income from the fund supports a travel grant program for graduate students within IANR whose advisor or co-advisor has an ARD research appointment. In accordance with the donor instructions, this program will support attendance to professional society meetings in the fields of animal science, agricultural education and leadership, and veterinary and biomedical sciences. Priority for grants will be given to graduate students who are personally presenting the results of their research and/or scholarly investigations.

The Whitmore Research Travel Committee makes grants for expenses, including transportation (which is not to exceed coach class airfare), registration, lodging, meals, etc. Grants under this program are limited to a maximum of $500 per individual per fiscal year. Seventeen students applied for the travel award, and these eight IANR students received the William G. Whitmore Memorial grants for travel during Jan. 1-June 30, 2004:

Name: **Amy Boren**
Department: Agricultural Leadership, Education and Communication
Meeting: Association for International Agricultural and Extension
Place: Dublin, Ireland

Name: **Lilian Gomez**
Department: Agricultural Leadership, Education and Communication
Meeting: International Self-Directed Learning Symposium
Place: Coca Beach, Florida

Name: **Rebecca Bott**
Department: Animal Science Department
Meeting: Mid-West Animal Science/American Society of Animal Science
Place: Des Moines, Iowa

Name: **Danilo Franco**
Department: Animal Science Department
Meeting: International Poultry Scientific Forum/Poultry Exposition
Place: Atlanta, Georgia

Name: **Bobbie G. Geisert**
Department: Animal Science Department
Meeting: Mid-West Animal Science/American Society of Animal Science
Place: Des Moines, Iowa

Name: **Heidi Harris**
Department: Animal Science Department
Meeting: Mid-West Animal Science/American Society of Animal Science
Place: Des Moines, Iowa

Name: **Kristi Sayer**
Department: Animal Science Department
Meeting: Mid-West Animal Science/American Society of Animal Science
Place: Des Moines, Iowa

Name: **Rami Sawalha**
Department: Animal Science Department
Meeting: Midwestern Section/American Dairy Science
Place: Des Moines, Iowa

The next call for these travel funds will be sent to the unit administrators around the second week in April 2004 for travel from July 1 to Dec. 31.

ARD-Administered Grants and Awards Programs

The Agricultural Research Division administers several grant and recognition programs using ARD funds, NU Foundation funds and funds from other sources. Some of these are awarded annually on a regular schedule and some on an ad hoc basis as funds permit. The following summary explains some of these programs and how they are currently being administered.

NU Foundation Endowments

Anna H. Elliott Fund Grants

Awarded every two years as endowment income permits. Income is about $60,000 annually and the program is oriented to plant science research directed to western Nebraska. RFP issued about **Dec. 15,** awarded in **odd-numbered** years.

Sampson Range and Pasture Management Endowment
Awarded every two years as endowment income permits. Three research, extension or teaching projects are funded every two years. The program is directed at pasture and rangeland management and the study of native grasses. RFP issued about **Jan. 15**, awarded in **odd-numbered** years.

Mussehl Poultry Research Endowment
Awarded every two years as endowment income permits. Income is about $25,000 per year. Research in poultry management, health, nutrition, physiology, waste management and utilization, and poultry product research is supported by the endowment. RFP is issued about **June 1**, awarded in **odd-numbered** years.

Widaman Trust Graduate Fellowship
Awarded annually. $2,000 added to stipend of outstanding graduate students. Nominations are due about **May 10.**

Hardin Distinguished Graduate Fellowship in Plant Stress Physiology
Awarded annually. $2,000 added to stipend of a selected student plus $1,000 to the department to assist student's research. One fellowship awarded annually. Nominations are due about **May 10.**

John and Louise Skala Fellowship
Awarded annually. Fellowships may be awarded to graduate students who have been accepted into either a M.S. or Ph.D. program, and have been offered a graduate assistantship. These funds are to be used to supplement existing assistantships (GRA/GTA) with offers of $3,000 for M.S. and $5,000 for Ph.D. students. Fellowships constitute an award based on academic and scholastic achievement or promise, cannot be associated with any service requirement, and will be awarded only to students doing research in the area of industrial uses of agricultural commodities. Students cannot be candidates for the Skala Award if they are candidates for the Widaman, Milton Mohr or Farmer's National awards. Industrial Ag Products Center assists in the selection of recipients. Nominations are due about **May 10.**

William G. Whitmore Graduate Student Travel Grants
Awarded annually. In accordance with the donor instructions, this program will support attendance to professional society meetings in the fields of animal science, agricultural education and leadership, and veterinary and biomedical sciences. Grants under this program are limited to a maximum of $500 per individual per fiscal year. This includes transportation (which is not to exceed coach class airfare), registration, lodging, meals, etc. The deadlines for submissions are **May 15 and Nov. 15.**

Larrick Graduate Student Travel Grants
Awarded twice yearly. In accordance with the donor instructions, this program supports graduate student travel to professional meetings. In that the Whitmore Graduate Student Travel Grant supports students in animal science, agricultural education and leadership, and veterinary and biomedical sciences, the Larrick Graduate Student Travel Grant program supports graduate student travel in other fields. Grants under this program are limited to a maximum of $500 per individual per fiscal year. This amount includes transportation (not to exceed coach class airfare), registration, lodging and meals. Deadlines for submissions are **May 15** and **Nov. 15.**

Williams Endowment
Awarded every two years. Project proposals should relate to the "management of surface water run-off and erosion from agricultural land to achieve total maximum daily loading (TMDL) compliance." The specific focus of the research may be changed in future solicitations as emerging priorities change. Deadline for submission is **May 15** in **even-numbered** years.

Mary and Charles C. Cooper/Emma I. Sharpless Fellowships
Jointly awarded on an annual basis by ARD and CASNR. $1,000 or $2,000 added to stipend of selected graduate students for assistance in recruitment. Applications are accepted throughout the year.

Junior Faculty Excellence in Research Recognition (Ruth E. Branham Endowment)
Awarded annually. Up to two junior faculty recognized per year. Recognition consists of certificate, plaque and $3,000 for use in research or professional development. Call for nominations is issued on **June 1**.

Burlington Northern Water-Science Endowment
Awarded on a biannual basis for water science research. Approximately $60,000 is available every two years. RFP is issued about **Jan. 15**, awarded in **even-numbered** years.

Helen Porter Van Spronssen Charitable Trust
The annual income from the Trust is to partially support ($10,000) one GRA in the range and livestock research program. This will be a named assistantship assigned to an approved ARD project in range and livestock research at the Gudmundsen Sandhills Laboratory. Awarded every two years. RFP issued about **Feb. 1**, awarded in **odd-numbered** years.

Ralph H. Bainbridge Memorial Fund
The annual income of approximately $5,000 will be used to partially support research in beef production and grassland management. Grants will be awarded on a competitive basis to interdisciplinary teams. Matching funds will be required. Awarded every two years. RFP issued about **Feb. 1**, awarded in **odd-numbered** years.

Agricultural and Water Research Fund
Awarded annually. Interest income will be used in conjunction with the current Burlington-Northern Water Science Endowment to enhance water science and irrigation management research. This is awarded every two years in concurrence with the Burlington Northern Water-Science Endowment. RFP issued about **Jan. 15** in **even-numbered** years.

Jorgensen Fund
The interest income will be used to partially support a GRA for a graduate student conducting research at the Gudmundsen Sandhills Laboratory on beef-range systems. Awarded every two years. RFP issued about **Feb. 1**, awarded in **odd-numbered** years.

Channing B. and Katherine W. Baker Fund
Interest from the endowment is used to support one GRA in the areas of (I) soil conservation and management or (II) breeding and genetics of food and feed grains. Preference in awarding the GRA will be given to Ph.D. students. Awarded every two years. RFP issued about **Feb. 1**, awarded in **even-numbered** years.

ARD Discretionary Funds

Multistate Research Funds
Awarded once each year. Approximately 25 percent of the Hatch Act funds provided to the Nebraska Agricultural Experiment Station (NAES) is set aside to support multistate research activities. This account is used to provide travel expenses for attendance of official NEAS representatives at annual meetings of multistate research projects (NE, NC, S or W), coordinating committees/information exchange groups (NCR, SIEG, etc.), administrative committees (NCA, etc.) or proposal development committees (NCT, etc.). Funding for operations, graduate student and technical support is also provided to official participants in multistate research projects to allow them to accomplish the project objectives.

Special Hatch Funds
Awarded once every two years. An increase in the Hatch Act funds provided to the Nebraska Agricultural Experiment Station was set aside in a competitive grants program that addresses specific federal priorities. Requests for proposals are normally issued in April of odd-numbered years and awards are made effective July 1 of that year. The request for proposal specifies the federal priority areas for which applications are sought.

Interdisciplinary Research Grants
Awarded annually depending on availability of funds. Two or three grants awarded for up to two years duration and for up to $20,000 annually. RFP issued about **Feb. 1.**

Graduate Student Recruitment Funds
Awarded as requested by departments. Up to two per department per **calendar year.** Award pays up to 50 percent of expenses or $200 per student. Purpose is to reimburse recruitment visits to UNL for students offered assistantships.

ESCOP/ACOP Leadership Development Course
One faculty member is selected for participation each year. Award consists of tuition and travel expenses associated with ESCOP/ACOP Leadership Development Course. Participants spend about 10% of their time serving as administrative interns in ARD. Request for applications is issued in **late November and application deadline is late January.**

ARD Research Equipment Awards
Awarded annually, as provided in state appropriations. Approximately $225,000 awarded annually to all ARD units, according to prioritized requests. RFPs are issued about **Sep. 1.**

Undergraduate Honors Student Research Program
Awarded annually. Approximately $52,000 awarded each spring to honor students conducting research with a faculty member holding an ARD appointment. Students receive a maximum of $2,500 for supplies and expenses and/or as a stipend. RFPs are issued about **April 1 and Sep. 1.**

UNL-Wide Competitions

Layman Trust Fund Awards
The Layman Awards are aimed at providing seed money for projects that will enhance the grantee's ability to obtain external funding or produce prominent scholarly work. Priority will be given to non-tenured tenure-track faculty and to other eligible faculty who propose projects of high promise and who make a compelling case that Layman funding is critical to their success. Awards may be made for pilot projects, prototype development, faculty development, and preliminary educational and public service programs. Award recipients are expected to actively pursue external funding sources and, where appropriate, submit a proposal for external funding within 18 months of receipt of the award. RFPs are issued about **December with deadline in January — awards issued about May 1.**

University of Nebraska Foundation Grants
The University of Nebraska Foundation grants are for equipment and information technology. The four campuses of the UNL system are eligible to compete for these grants. This program's goal is to strengthen UNL's priority areas through the purchase of needed information technology and equipment, with an emphasis on interdisciplinary collaboration among departments, colleges and other campuses. RFPs are issued and letters of intent are to be submitted **March 1** to the Vice Chancellor for Research and the proposals by the **middle of March** to the cognizant Deans.

Willa Cather and Charles Bessey Professorships
This professorship was established to recognize distinguished scholarship and creative activity. Any UNL full professor, regardless of discipline, who does not currently hold another named professorship or chair, is eligible to be nominated or apply. A faculty member may not hold a Cather or Bessey Professorship and another named professorship or chair simultaneously. The professors will receive a $2,500 annual stipend. Nominations and applications should be submitted to the Office of Academic Affairs by the **middle of October.**

Othmer Fellowships
Othmer Fellowships are intended to assist in recruiting *exceptional* scholars who are seeking a terminal degree (Ph.D., M.F.A.). Othmer Fellows will receive, in addition to the departmental

assistantship, a $7,500 fellowship per year. Othmer Fellowships are renewable for up to three years, given continued excellent progress toward the degree. At the end of the three-year fellowship period, Othmer Fellows are entitled to compete for other fellowship funding. **After this year, the call for applications will be sent in September and notification will be made early in the fall semester.**

Chancellor's Doctoral Fellowships

Chancellor's Doctoral Fellowships are designed to assist departments with the recruitment of superior graduate students by adding fellowship funds to an assistantship. These fellowships are for $3,000 and are automatically renewable for a second year, given excellent progress toward the degree. All newly admitted doctoral students are eligible. **After this year, the call for applications will be sent in September and notification will be made early in the fall semester.**

Richard H. Larson Graduate Minority Fellowships

Richard H. Larson Minority Fellowships are designed to assist departments with the recruitment of superior graduate students from racial/ethnic groups under-represented in higher education (i.e., African-American, Hispanic or American Indian students) by adding fellowship funds to an assistantship. These fellowships are for $2,500 and are automatically renewable for a second year, given excellent progress toward the degree. Larson fellowships may be offered in combination with other recruiting fellowships (e.g., Othmer or Chancellor's) where applicable. All newly admitted graduate students are eligible. **After this year, the call for applications will be sent in September and notification will be made early in the fall semester.**

Student Assistantships in Research and Scholarship (STARS)

The Student Assistantship in Research and Scholarship (STARS) program is designed to assist departments with the recruitment of racially/ethnically under-represented students, or women interested in pursuing graduate studies in disciplines in which women are under-represented. The STARS program aids departmental recruitment of superior graduate students by adding a summer assistantship to a regularly funded departmental assistantship. In order for the student to be exempt from summer tuition, the departmental assistantship must be large enough during the academic year to provide summer tuition benefits. These assistantships are for $3,000 and are to be used to support a student during the first summer after matriculation into a full-time program of graduate study (i.e., the summer after the first year of graduate study). **After this year, the call for applications will be sent in September and notification will be made early in the fall semester.**

Anyone with questions about these programs is encouraged to contact the Agricultural Research Division office.

CSREES Appropriation for FY 2004

Although we are more than two months into FY 2004, the House and Senate Conference Committee has only recently completed action on the USDA appropriation. Listed below are the CSREES appropriations for FY 2003 and FY 2004 as passed by the House and Senate Conference Committee:

Research Program	*FY 2003*	*FY 2004*
	— $, in millions —	
Formula Programs:		
Hatch Act	178.977	180.149
McIntire-Stennis Forestry	21.742	21.884
Evans-Allen — 1890 Universities	35.411	36.000
Animal Health and Disease	5.065	4.559
National Research Initiative	**166.045**	**165.000**
Special Research Grants:		
State Specific (Earmarked)	111.534	111.312
Expert IPM	0.176	0.159
Integrated Pest Management	2.707	2.453
Minor Crop Pest Management	10.673	9.606
Pest Management Alternatives	1.608	1.457
Canola	0.841	0.756
Hesperaloe and Desert Plants	0.348	0.313
Critical Ag Materials Act	1.242	1.118
1994 Institutions	1.093	1.093
Joe Skeen Rangeland	0.994	0.900
Sustainable Agriculture — SARE	13.661	12.295
Aquaculture Centers	4.471	4.024
Integrated Activities:		
Critical Issues (Plant and Animal Diseases)	0.497	0.447
Rural Development Centers	1.503	1.353
Water Quality	12.887	11.598
Food Safety	14.870	13.384
Pesticide Impact Assessment	4.531	4.052
International Science and Education	0.497	0.900
Crops at Risk from FQPA	1.487	1.338
FQPA Risk Mitigation	4.857	4.371
Methyl Bromide Transition	3.229	3.150
Organic Transition	2.111	1.900
Homeland Security	0	8.000

As a result of the federal budget deficit and the allocations made to appropriations subcommittees by the House and Senate Budget Committee, funding for a number of our important programs was reduced by about 10 percent. Fortunately, the formula programs and the NRI were maintained at near FY 2003 levels. We were pleased to see that some funding was provided for homeland security programs. It is likely that this funding will be used to continue upgrading animal and plant diagnostic laboratories across the United States.

It is anticipated that the House will pass the Conference Committee appropriation on Dec. 8 and the Senate may pass the appropriation on Dec. 9. If the Senate does not act on Dec. 9, it will recess until after the holiday break and will not pass the bill until mid-January. Unfortunately, the final bill also includes a government-wide recession of 0.59 percent. Thus, the appropriations listed will be further reduced by the amount of the recession.

Searching for Collaborators

Over the past few months, researchers have been asking how to make interdisciplinary research contacts. More and more proposal requests require multidisciplinary and multi-institutional collaborations. Plus, a broader view can stimulate the kinds of innovative research designs that stand out for reviewers. With the short turn-around times for proposal submission, we all need faster ways to find research partners. Searching CRIS is one of the best options for doing this.

Most of us know about the Current Research Information System, or CRIS, in terms of reporting requirements for our own projects. These reporting requirements include the AD 416, AD 417 and AD 421 forms. While all three forms are required by USDA's Cooperative State Research, Education and Extension Service (CSREES), AD 416 forms for new and revised projects form the basis of funding allocation to the Land Grant Experiment Stations/Research Divisions and must be approved by CSREES. AD 421 forms meet CSREES' requirements for reporting annual progress in research.

All researchers with Hatch, Multi-state and CSREES competitive funding must file CRIS reports. Because this is public information, all this paperwork can be used to your advantage — you can search for information about what is happening across the United States and within USDA. Searching the system can help you:

- locate researchers who have similar interests
- keep up-to-date on the latest approaches
- find citations to important publications in journals you don't usually access
- find new outlets for your own manuscripts
- learn whether your own ideas are novel

The Current Research Information System (CRIS) is located at:

http://cris.csrees.usda.gov/

Click on Search to conduct a full-text search or more specialized search. I typed in "value-added corn" and found 19 records (the first being our own Yiqi Yang's project).

Search CRIS Full Text **Help**

In the boxes below, enter words or phrases separated by semicolons (the ";" means "OR"). If you need a different search interface, click on "Exit to Menu" button.

Fulltext Terms

...AND these

...NOT these

Subfile | (Any) | CRIS | HNRIMS | ICAR

Records retrieved: 19 **Max Records to Display:** 50

Retrieved 19 records. Displaying items 1 — 10.

Title/Investigator Table of CRIS Projects

Acc No	Title	Source	More
0195249	NEW TECHNOLOGIES FOR THE UTILIZATION OF TEXTILE MATERIALS	Yang, Y. (UNIVERSITY OF NEBRASKA)	
0194017	**VALUE-ADDED** PROCESSING OF **CORN** FOR ETHANOL AND OTHER USES	Singh, V. (UNIVERSITY OF ILLINOIS)	
0193869	MICROBIAL BIOMASS CONVERSION INTO SPECIALTY CHEMICALS	West, T. P. (SOUTH DAKOTA STATE UNIVERSITY)	
0187861	SUPRA-MOLECULAR AND MOLECULAR CHARACTERIZATION OF FOOD COMPONENTS	Vodovotz, Y. and Schwartz, S. J. (OHIO STATE UNIVERSITY)	

(more records)

Clicking on the researcher's name brings up his or her annual reports for HATCH, Multi-state and USDA competitive grants. For example Singh, V. has 5 projects, the third one looks like:

ACCESSION NO: 0177985 **SUBFILE:** CRIS **PROJ NO:** ILLU-741-305 **AGENCY:** CSREES ILLU **PROJ TYPE:** HATCH **PROJ STATUS:** REVISED **START:** 01 OCT 2003 **TERM:** 30 SEP 2008 **FY:** 2002

INVESTIGATOR: Rausch, K. D.; Singh, V.; Tumbleson, M. E.

PERFORMING INSTITUTION: AGRI ENGINEERING UNIVERSITY OF ILLINOIS 505 SOUTH GOODWIN AVENUE URBANA, ILLINOIS 61801

PROCESS DEVELOPMENT TO RECOVER NUTRIENTS FROM AGRICULTURAL SOLIDS

NON-TECHNICAL SUMMARY: Developing new uses, and more importantly, higher value for coproduct solids in process streams is needed to retain the competitiveness of agricultural and food processors and can be accomplished through new process designs, incorporation of new technology, or combinations of both.

OBJECTIVES: 1) Develop new, efficient processes that enhance the value of agricultural materials, especially grain processes. 2) Use emerging technologies or technologies from other industries that can be used in agricultural material processes to dewater, dry, or convert biosolids into higher valued products.
APPROACH: Various process systems and unit operations will be studied in an effort to improve the...

It is hoped that this looks familiar — it's the format for new or revised projects and annual progress reports (*reminder:* annual progress reports are due in December). You will find the PI's full contact information at the end of each entry.

Another very useful Web resource, one that links to CRIS, is: http://www.wisc.edu/ncra

This site is maintained by the North Central Regional Association (NCRA). You can link to the National Information Management and Support System (NIMSS), the other Regional Association Web sites and many other sources of information.

Don't forget to check the ARD Web site: http://ard.unl.edu/ Click on *Pioneering the Future* to learn about the interests of our own ARD researchers.

Proposals Submitted for Federal Grants

The following is a listing of proposals that were submitted the past few months by faculty for federal grant programs. While not all grants will be funded, we are appreciative of faculty members' outstanding efforts in submitting proposals to the various agencies.

Andrew Benson — NIH — Genome Biology of *Francisella tularensis* Populations — $392,000

Mark Kuzila — USGS — Rural and Urban Geologic Mapping of Nebraska — STATEMAP FY 2004-05 — $174,455

Andrea S. Cupp — NIH/NICHD — Molecular Mechanisms of Testis Development — $142,810

Marjorie F. Lou — NIH — Redox Signaling in the Lens — $1,611,910

Bruce Brodersen — USDA, ARS, MWA — Viral Pathogens that Contribute to Respiratory Disease Complex in Cattle: Epidemiology of Persistent BVDV Infection — $25,000

Gary Yuen — USDA — North Central Region IPM Competitive Grants Program — Optimization and Integration of Biological Control Agents for Management of *Fusarium* Head Blight — $100,000

James E. Specht — USDA/ARS — Positioning of Classical Soybean Genes on the Genome Map of Soybean — $38,198

Martin Dickman — USDA/BARD — Involvement of the PKA and MAPK Signal Transduction Pathways in Sclerotial Morphogenesis in *Sclerotinia sclerotiorum* — $180,000

Martin Dickman — NSF — MCB — Signal Transduction and Regulation — $623,025

F. Edwin Harvey — USEPA — Backcountry Water Quality in Rocky Mountain National Park: Pharmaceuticals — $100,000

New or Revised Projects

The following station projects were approved recently by the USDA Current Research Information System (CRIS):

NEB-12-267 (Agronomy/Horticulture) Ecophysiology of Corn — Velvetleaf Competition
Investigator: John Lindquist
Status: Revised Hatch project effective June 1, 2003

NEB-12-302 (Agronomy/Horticulture) Proteomic Dissection of the Mitochondrial DNA Metabolism Apparatus in *Arabidopsis*
Investigator: Sally Mackenzie
Status: New Hatch project effective May 1, 2003

NEB-13-158 (Animal Science) Genetic Selection and Crossbreeding to Enhance Reproduction and Survival of Dairy Cattle
Investigator: Jeffrey Keown
Status: New Hatch project that contributes to regional project S-1008 effective Oct. 1, 2002

NEB-15-101 (Biochemistry) Vitamin C Metabolism in Plants: Biochemical and Physiological Characterization of Cytochromes B561
Investigator: Han Asard
Status: New Hatch project effective Sept. 1, 2003

NEB-16-099 (Food Science and Technology) Stability and Functional Activity of Prebiotic Oligosaccharides in Foods
Investigator(s): Robert Hutkins and Randy Wehling
Status: New USDA Competitive Grant effective Nov. 15, 2003

NEB-20-060 (Agronomy and Horticulture) Breeding and Development of Buffalograss for the Central Great Plains
Investigator(s): Terrance P. Riordan and Robert C. Shearman
Status: Revised Hatch project effective July 1, 2003

NEB-44-064 (Panhandle Research and Extension Center) Enhancing the Competitiveness of U.S. Meats
Investigator(s): Dillon M. Feuz and Chris R. Calkins
Status: New Hatch project that contributes to regional project W-1177 effective Oct. 1, 2002

Grants and Contracts Received October and November, 2003

Agronomy/Horticulture	
Clemente, Thomas — Nebraska Soybean Board	$ 46,540
Dweikat, Ismail — Nebraska Grain Sorghum, Development, Utilization and Marketing Board	17,000
Dobermann, Achim — Nebraska Soybean Board	28,402
Ginting, Daniel, Martha Mamo, Charles Wortmann, Glenn Helmers and Bahman Eghball — USDA/CSREES	335,000
Graef, George and James Specht — Nebraska Soybean Board	66,368
Shearman, Robert — United States Golf Association Foundation, Inc.	30,000
Miscellaneous Grants Under $15,000 each	14,450
Animal Science	
Calkins, Chris — National Cattlemen's Beef Association	49,700
Pomp, Daniel — Biotechnology Research and Development Corporation (BRDC)	111,110
Miscellaneous Grants Under $15,000 each	3,175
Biochemistry	
Becker, Donald — NSF (Transfer from University of Missouri-St. Louis)	89,000
Biometry	
Eskridge, Kent — Nebraska Health and Human Services	27,324
Entomology	
Miscellaneous Grants Under $15,000 each	75,100
Food Science and Technology	
Hutkins, Robert, Georgianna Whipple, H. Thippareddi and Lisa Durso — USDA/CSREES	400,000
Miscellaneous Grants Under $15,000 each	23,012
Industrial Agricultural Products Center	
Hanna, Milford — Nebraska Soybean Board	29,993
Northeast Research and Extension Center	
Hunt, Thomas and Leon Higley — Nebraska Soybean Board	12,625
Hunt, Thomas and Stevan Knezevic — Nebraska Soybean Board	29,464
Nutritional Science and Dietetics	
Carr, Timothy and Curtis Weller — Nebraska Grain Sorghum Development, Utilization and Marketing Board	10,000
Panhandle Research and Extension Center	
Hibberd, Charles — Nebraska Dry Bean Commission	24,000
Miscellaneous Grants Under $15,000 each	61,250
Plant Pathology	
Giesler, Loren, George Graef, Leslie Lane, Thomas Powers and John Wilson — Nebraska Soybean Board	47,712
Giesler, Loren and Thomas Hunt — Nebraska Soybean Board	31,290
Powers, Thomas — Nebraska Department of Agriculture	36,876
Steadman, James and George Graef — Nebraska Soybean Board	32,292
Steadman, James — Nebraska Dry Bean Commission	13,032
Miscellaneous Grants Under $15,000 each	8,000
School of Natural Resources	
Brandle, James — State of Montana Department of Natural Resources and Conservation	14,500
Hygnstrom, Scott — USDA/APHIS	117,139
Kuzila, Mark — Nebraska Department of Natural Resources	144,496
Merchant, James and Jeffrey Arnold — Nebraska Emergency Management Agency	37,950
Peters, Albert, James Merchant and Donald Rundquist — USDOI-USGS	89,500
Wilhite, Donald — USDA/CSREES	46,296
Miscellaneous Grants Under $15,000 Each	4,500
Textiles, Clothing and Design	
Yang, Yiqi — University of Massachusetts — National Textile Center	25,000
Miscellaneous Grants Under $15,000 each	10,000
Veterinary and Biomedical Sciences	
Donis, Ruben — NIH	289,116
Smith, David, Rodney Moxley, Susanne Hinkley and Terry Klopfenstein — USDA/CSREES	500,000
Miscellaneous Grants Under $15,000 each	2,989
West Central Research and Extension Center	
Miscellaneous Grants Under $15,000 each	6,800
Grand Total	**$ 3,041,001**

Diane says

Definition of Miracle — Something extraordinary that happens without any strings attached.