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THE AGRICULTURAL EXPERIMENT STATION
 INSTITUTE OF AGRICULTURE
 AND NATURAL RESOURCES
 UNIVERSITY OF NEBRASKA-LINCOLN 68583-0704

Agricultural Experiment Station News

February 1983

VOL 16 NO 6

TRAVEL TO SCHOLARLY MEETINGS

March 1, 1983 is the deadline for submission of travel grant proposals to the Research Council for the period July-October, 1983. In reviewing the list of recent Research Council awards recipients, it appears our Agricultural Experiment Station personnel may not be taking optimum advantage of this opportunity to attain travel support to participate in professional meetings. IANR faculty presenting research papers at professional meetings are strongly encouraged to apply for these travel grants.

GRANT PROPOSALS TO COMMODITY CHECK-OFF BOARDS

The AES response to calls for grant proposals from the Corn Board, Soybean Board, Sorghum Board and Wheat Board were excellent. The AES Research Coordinating Committees evaluated each proposal and made suggestions to the project leaders for consideration when appropriate. The following project proposals were judged technically sound and appropriate and were submitted by the Director to the respective Boards for consideration:

Commodity Board	Proposals Submitted		Research Committee Coordinator
	No.	Total Requests	
Corn	27	\$420,454	R. G. Gast
Sorghum	22	\$245,898	Don Hanway
Soybean	28	\$313,615	Don Hanway
Wheat	15	\$160,611	W. W. Sabs

Special appreciation is expressed to all who submitted research proposals and to the members of the respective Research Coordinating Committees who did a conscientious and effective job of evaluating the 92 proposals received. This response clearly indicates that our Agricultural Experiment Station staff is interested in working closely with our industry to enhance the utilization and production efficiency of these important Nebraska agricultural commodities.

PROFESSIONAL TRAVEL FUNDS

We are still operating on a restricted out-of-state travel basis on State appropriated funds. The \$100 per year professional travel fund allocations are being released only for high priority out-of-state travel on an individual basis. However, all out-of-state travel on state funds must still be approved in advance by the IANR Vice Chancellor.

AES ADVISORY COUNCIL

The following faculty are members of the AES Advisory Council:

- Dale G. Anderson**, (Chairman) Ag. Economics,
- D. Murray Danielson**, North Platte Station
- James R. Gilley**, Ag. Engineering
- Austin J. Lewis**, Animal Science
- Ralph E. Neild**, Horticulture and CAMaC
- Robert A. Olson**, Agronomy
- George W. Rehm**, Northeast Station
- Marvin B. Rhodes**, Veterinary Science
- Khem M. Shahani**, Food Science & Technology

This council meets with the Director on a quarterly basis and all AES personnel are encouraged to contact members of the Council if they have items they desire to have discussed. The Director's office is anxious to have free and candid discussions regarding how the effectiveness of Nebraska's agricultural research program can be improved.

AES DIRECTOR'S OFFICE MOVES

Agricultural Hall 109 is the new headquarters for the Nebraska Agricultural Experiment Station. The entrance is directly across from the College of Agriculture Dean's office on the "garden" level. This new location improves the functional operations of the office. The Station now has a centralized clerical office with a small conference office between the Director's office and the Associate Director's office. In addition to **Dr. Sabs'** office at the University Field Laboratory, he also has an office in 107 Ag. Hall.

NATIONAL AG LIBRARY

During the summer of 1982 **Wayne Collings** served on an Ad-Hoc committee to aid a blue ribbon panel in making an assessment of the National Agricultural Library (NAL). The final report was issued in August, 1982. The major recommendations made in this report are: (1) To realign the internal organization of the NAL to streamline functions; (2) To increase the staff of the NAL by some 50 positions; (3) To provide supplemental funds of approximately \$3,000,000 to improve services; (4) To broaden the AGRICOLA data base and to develop an agricultural thesaurus; (5) To update available technologies and systems at NAL to better support library and informational activities; (6) To develop formal plans for a national agricultural information network; and (7) To establish an advisory council to advise the Secretary of Agriculture on matters of general policy and to conduct ongoing evaluations of NAL.

The most recent action as a result of this report was taken at the November 9 meeting of the National Association of State Universities and Land-Grant Colleges. It was decided that a permanent, standing National Agricultural Library Liaison Committee will be established within the Division of Agriculture of NASULGC and its chairman will represent NASULGC on the National Agricultural Library Advisory Council.

APPROVED PROJECTS

NEB 13-036 - Improving Dairy Herd Management Practices

This is a revised Hatch project contributing to NC-119 with an effective date of October 1, 1982. The project leaders are **L. L. Larson** and **F. G. Owen** of the Animal Science Department. The objective of the research is to develop dairy management practices designed to optimize economic returns through improved animal performance.

NEB 20-046 - Growth and Development of Ornamental Plants as Influenced by Nutritional Factors

This is a new Hatch project with an effective date of November 8, 1982. **E. T. Pappozzi** of the Horticulture Department is the project leader. In this research problems addressed will include all aspects of *Limonium* sp. (static) culture such as nutrient requirements, evenness and time to flower and reaction to herbicides. Baseline studies for growth and development of tree seedlings in response to nutrients provided through drip irrigation plus preliminary studies on potential nutrient-pollutant interaction will also be addressed.

NEB 27-002 - Chemistry of Atmospheric Deposition - Effects on Agriculture, Forestry, Surface Waters and Materials.

This is a new Hatch project that contributes to regional project IR-7 with an effective date of October 1,

1982. **S. B. Verma** of the Center for Agricultural Meteorology and Climatology is the principal investigator. The objective of the research is to discover and characterize biologically important geographical and temporal trends in the chemical climate of Nebraska and North America.

NEB 43-036 - Analysis of Production Systems and IPM Research Needs in the North Central Region

This is a new Hatch project that contributes to NC-166 with an effective date of October 1, 1982. **J. B. Campbell** of the North Platte Station is the project leader. The objective of this research is to demonstrate the desirability of using an interdisciplinary, multistate, multi-agency coordinated approach to integrated pest management (IPM) that will facilitate the development of IPM technology and its delivery to farmers for their implementation.

NEB 92-011 - Relationship of Perceptions of Solar and Earth Sheltered Systems to Behavior of Housing Intermediaries

This is a new Hatch project with an effective date of January 1, 1983. **E. R. Combs** of the Department of Education and Family Resources is the project leader. The objectives of this study are: (a) to determine the general attitudes of home builders and loan officers of financial institutions toward constructing and financing earth sheltered and solar houses; (b) describe where home builders and loan officers are in their decision process with regard to earth sheltered and solar homes; (c) describe the practices of home builders and financial institutions with regard to building and financing earth sheltered and solar houses; (d) determine the support of home builders and loan officers of financial institutions for various policies and institutional changes; (e) specify a set of attributes which likely influence attitudes, decisions and practices of home builders and loan officers; (f) describe how home builders and loan officers perceive each of the specified attributes of earth sheltered and solar houses; and (g) determine where differences in perceptions of attributes exist among passive solar houses, houses with active solar systems and earth sheltered houses for each of the two institutions.

NEB 94-012 - Limiting Pesticide Exposure Through Textile Cleaning Procedures and Selection of Clothing

This is a new Hatch project that contributes to NC-170 with an effective date of October 1, 1982. **J. Laughlin** of Textiles, Clothing and Design and **R. Gold** of Environmental Programs are the project leaders. The objectives of this study are to determine the effectiveness of laundering in pesticide removal from apparel fabrics and determine if pesticide residue in fabric is biologically active after laundering.

AES GRANTS RECEIVED FOR 1ST SIX MONTHS OF FY 83

During the period of July 1 through December 31, 1982, UNL received \$10,003,532 in grants. During that period the Agricultural Experiment Station received \$2,960,895. This represents 30% of the total grants received by UNL.

GRANTS AND CONTRACTS

Amend, J. F. (Veterinary Science) - Ag-Tronic, Inc.	4,000
Anderson, F. N. (Panhandle Station) - American Crystal Sugar Company	3,300
Anderson, F. N. (Panhandle Station) - Jiridon Agri Chemicals, Inc.	575
Ball, E. M. (Plant Pathology) - Nebraska Department of Agriculture - Potato Development Division	3,000
Ball, E. M. (Plant Pathology) - Colorado Seed Growers Association	3,750
Ball, H. (Entomology) - American Cyanamid Company	1,000
Burnside, O. C. (Agronomy) - American Cyanamid Company	750
Burnside, O. C. (Agronomy) - ICI Americas, Inc.	2,000
Compton, W. A. (Agronomy) - Golden Valley Foods	400
Deutscher, G. H. (North Platte Station) - Hoffman-LaRoche	250
Dickason, E. A. (Entomology) - American Cyanamid Company	250
Dickinson, E. O. (Veterinary Science) - Nebraska SPF Swine Accrediting Agency	1,213
Eldridge, F. (Animal Science) - Midwest Breeders Cooperative	440
Eldridge, F. (Animal Science) - American Breeders Service	2,600
Ferguson, D. L. (Veterinary Science) - Merck & Company, Inc.	1,751
Gustafson, W. A. (Southeast Extension & Research Center) - Donation/Gift - Greiner & Sons	370
Gustafson, W. A. (Southeast Extension & Research Center) - Donation/Gift - W. F. Thielenhause	50
Gustafson, W. A. (Southeast Extension & Research Center) - Donation/Gift - John Williams	160
Hagen, A. F. (Panhandle Station) - Michigan State University	600
Kies, C. (Human Nutrition & Food Service Management) - Ross Laboratories	5,000
Knoche, H. W. (Ag Biochemistry) - UN Foundation	3,123
Lindgren, D. T. (North Platte Station) - Amel Priest	100
Mader, T. L. (Northeast Station) - Cadco, Inc.	3,865
Mader, T. L. (Northeast Station) - Hoffman-LaRoche, Inc.	3,500
Mandigo, R. (Animal Science) - Nebraska Pork Producers	1,000
Mayo, Z. B. (Entomology) - Mobay Chemical Corporation	900
Mayo, Z. B. (Entomology) - American Cyanamid Company	1,000
Moomaw, R. (Northeast Station) - American Cyanamid Company	1,000
Nordquist, P. T. (North Platte Station) - Miscellaneous Donors	360
O'Keefe, R. B. (Panhandle Station) - Potato Chip Snack Food Association	1,000
Olson, R. A. (Agronomy) - American Society of Agronomy, Inc.	2,500
Omtvedt, I. T. (Director's Office) - USDA-CSRS	85,352
Peo, E. R. (Animal Science) - Anitox Corporation	1,000
Peo, E. R. (Animal Science) - TH Agriculture and Nutrition Company, Inc.	3,360
Rhodes, M. B. (Veterinary Science) - Fort Dodge Laboratory	150
Riordan, T. P. (Horticulture) - Pursley Turf, Inc.	700
Satterlee, L. D. (Food Science & Technology) - Rudy Vrtiska, Otto Kotouc and NU Foundation	21,00
Shearman, R. C. (Horticulture) - Mobay Chemical Corporation	500
Smith, J. A., Yonts, C. D. (Panhandle Station) - USDA/Soil Conservation Service	62,100
Steadman, J. H. (Plant Pathology) - Rock Mountain Bean Dealers Association	1,250

Steadman, J. H. (Plant Pathology) - BASF Wyandotte	1,000
Stetson, L. E. (Ag Engineering) - Agricultural Research & Management Service, Inc.	300
Supalla, R. J. (Ag Economics) - Union Pacific	13,200
Underdahl, N. R. (Veterinary Science) - American Cyanamid Company	9,000
Vidaver, A. K. (Plant Pathology) - Agrigenetics Corporation	50
Wicks, G. A. (North Platte Station) - American Cyanamid Company	250
Wilson, R. G. (Panhandle Station) - ICI Americans	3,000
Wilson, R. G. (Panhandle Station) - American Cyanamid Company	1,000
Wilson, R. G. (Panhandle Station) - Stauffer Chemical	1,000
	<hr/>
	254,019

New Experiment Station Personnel

Eberhard Karbe, Professor, Veterinary Science Department. Dr. Karbe is a native of Berlin Germany. He received his Dr., Med. Vet., 1961, University of Giessen, West Germany; M.V.Sc., 1964, University of Guelph, Ontario, Canada; Ph.D., 1967, University of Connecticut, Storrs, Connecticut; Privatdozent, 1970, University of Zurich, Zurich, Switzerland. He is a certified Veterinary Pathologist, Germany, 1976 and a certified Veterinarian for Tropical Veterinary Medicine, Germany, 1979. He was Privatdozent of Veterinary Pathology, University of Zurich; Head of Toxicology and Experimental Medicine, Battele Institute, Frankfurt; Head of Protozoology, Veterinary Research Laboratory, Kabete, Kenya and Director of Research Project of Trypanosomiasis, Avetonou, Togo, West Africa. At present he is involved with diagnostic, research and teaching responsibilities at the Veterinary Science Department. He joined the Veterinary Science staff on November 15th.



Daniel H. Yocom, Research Associate, Department of Plant Pathology. A native of Pennsylvania, Daniel received his B.S. degree from Lebanon Valley College in 1974, his M.S. degree from the University of Pittsburgh in 1977 and is completing a Ph.D. in the Department of Ecology and Evolution at the State University of New York at Stony Brook. His primary research interest is the interaction of vascular plants with mycorrhizal fungi. Currently, he is working in association with Dr. Michael G. Boosalis (Plant Pathology) on a project examining the effects of different cultivational practices on mycorrhizal fungal populations and the subsequent effects on the wheat crop. He is a member of the Ecological Society of America and the Mycological Society of America. He started his present position on January 1, 1983.

