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

Agricultural Experiment Station News

December 1982

VOL 16 NO 5

GAMMA SIGMA DELTA AWARD WINNERS

Five faculty members were honored at the Gamma Sigma Delta Banquet on November 21, 1982 for their outstanding contributions. Dr. Terry Klopfenstein (Animal Science) received the Research Award; Professor Charles Fenster (Panhandle Station) the Extension Award; Dr. Allen Blezek (Ag. Education) the Teaching Award; and Dr. Donald Hanway (Agronomy) and Professor Wayne Collings (C. Y. Thompson Library) the Awards of Merit. Each of these recipients has compiled distinguished lists of professional contributions in his discipline in serving the University of Nebraska and the field of Agriculture.

COMPREHENSIVE DEPARTMENTAL REVIEW SCHEDULE

The Agricultural Biochemistry and Food Science and Technology programs were reviewed in October. The following programs are scheduled to be reviewed during the coming year:

Agricultural Economics	March 1983
Agricultural Meteorology & Climatology	Spring, 1983
Agricultural Education	Fall, 1983
Forestry, Fisheries and Wildlife	Fall, 1983
Horticulture	Fall, 1983

Experience has shown that these reviews are particularly effective when accompanied by a thorough, candid and progressive self-study analysis of all on-going programs. The review teams can be most helpful in assisting departments in improving program effectiveness when they are given specific recommendations to consider.

COMMODITY RESEARCH COORDINATING COMMITTEES

Commodity check-off programs provide an important source of funding for many AES research projects. Project proposals are screened by Station Coordinating Committees and those deemed appropriate are submitted by the Director to the Commodity Boards for funding consideration each year.

Proposals to be considered by the Corn Research Coordinating Committee were due in Dr. Gast's office by November 5, 1982 and proposals for the Soybean and Sorghum Research Coordinating Committee consideration are due in Dr. Hanway's office by January 10, 1983.

Faculty serving on these three research committees for 1982-83 include:

Corn Research Coordinating Committee: Bob Gast (Chm.), Ken Bolen, Elbert Dickey, C. O. Gardner, Austin Lewis, Dean Linsenmeyer, Z. B. Mayo, R. A. Olson, Jim Partridge, George Rehm, Chuck Walker.

Sorghum Research Coordinating Committee: Don Hanway (Chm.), Blaine Blad, Mike Boosalis, Elvis Dickason, Jerry Eastin, Bill Miller, Paul Nordquist, Ernie Peo, Chuck Walker, Howard Wittmuss.

Soybean Research Coordinating Committee: Don Hanway (Chm.) Bud Britton, Elbert Dickey, Constance Kies, Bob Klucas, Lynn Lutjen, Lowell Satterlee, Jim Specht, Anne Vidaver, John Witkowski.

AGRICULTURAL RESEARCH RECEIVING MUCH PUBLICITY

The relative effectiveness of agricultural research and allocation of Hatch Act research funds have been criticized in the news as a result of recent reports. Although these reports emphasize that agricultural research has not kept pace with changing needs, they fail to enumerate the success stories relating to returns from research investments. AES staff are encouraged to review these reports in an effort to better respond to comments from the general public. Copies of the Winrock report entitled "Science for Agriculture: Report of a Workshop on Critical Issues in American Agricultural Research," are currently being circulated among AES Departments.

ANNA H. ELLIOTT FUND RESEARCH PROPOSALS

The Anna H. Elliott Fund Advisory Committee will call (by January 15, 1983) for research proposals to be funded starting July 1, 1983. Proposals will be due February 15, 1983 and project leaders will be notified of

funding decisions by March 1, 1983. Research proposals must be in some area of agriculture, particularly in the field of plant sciences, and with preference to plant science in western Nebraska. Additional guidelines will be included in the January, 1983 call for proposals. Robert G. Gast, Chairman, R. W. Kleis, E. A. Dickason and J. L. Weihing.

BUDGET REDUCTION

The 2% budget reduction resulting from the special Legislative Session equates to about \$222,000 for the Agricultural Experiment Station. This loss cannot be accommodated without pain, but across-the-board cuts need to be avoided in order to maintain quality. Temporary freezing of vacant positions and out-of-state travel on appropriated State funds will remain in effect until January. Specific budget reduction plans will be finalized by individual administrative units at that time. The administration supports the reallocation of existing funds to higher priority needs. Preferences will be given to refilling support positions, partial restoration of equipment and operational budgets.

AES BUDGET

Research expenditures in the Nebraska Agricultural Experiment Station for the period October 1, 1981 through September 30, 1982 were as follows:

Funding source	Amount	Percentage
State appropriation	\$ 10,258,203	39.0
Federal appropriation	2,803,942	10.6
Industry grants	1,718,763	6.5
Federal grants	2,804,104	10.6
Revolving fund sales	8,782,423	33.3
TOTAL	\$ 26,367,435	100.0

SEASON'S BEST WISHES

The Agricultural Experiment Station office staff—Irv Omtvedt, Bob Kleis, Warren Sahs, John Woodward, Linda Arnold, Diane Mohrhoff and Katie Bradshaw — express to each of you our best wishes for the holiday season and the new year.

NEW AND REVISED PROJECTS

NEB 16-039 - Irradiation of Meats for Improving the Microbial Quality

This is a new Hatch project with an effective date of January 1, 1983. R. B. Maxcy of the Food Science and Technology Department is the principal investigator. The objectives of the project are (a) determine the nature of the surviving microflora with various levels of low-dose irradiation of meats; (b) determine the significance of the surviving microflora in post-irradiation processes for commercial meat distribution, (c) determine feasibility of using irradiated meats for production

of fermented sausage and (d) determine the mechanism of bacterial resistance to radiation and the factors influencing their fate in irradiated foods.

NEB 43-028 - Development and Culture of Herbaceous Ornamental Plants

This is a revised Hatch project with an effective date of November 1, 1982. The principal investigator is D. T. Lindgren of the North Platte Station. The objectives of the project are (a) develop high quality cultivars/germ plasm of useful ornamental plants, (b) determine adaptability of new ornamental plants to Nebraska, (c) determine cultural requirements for growing ornamental plant species and (d) determine mode of inheritance of several ornamental characteristics.

48-005 - Biology and Control of Troublesome Weeds in South Central Nebraska

This is a revised Hatch project with an effective date of October 1, 1982. The principal investigator is F. W. Roeth of the South Central Station. The objectives of the project are (a) characterize the population dynamics and competition of shattercane and velvetleaf in corn and soybeans, (b) evaluate herbicide effectiveness, selectivity, and persistence for weed control in corn, sorghum, soybeans, and wheat, and (c) develop selective weed control practices for corn, sorghum, soybean, and wheat rotations in South Central Nebraska.

Grants and Contracts

Baker, M. (Ag Economics) - USDA/ERS	1,450
Bashford, L. L. (Ag Engineering) - Ag Products Industrial Utilization	95,000
Burnside, O. C. (Agronomy) - PPG Industries, Inc.	1,500
Burnside, O. C. (Agronomy) - Mobay Chemical Corporation	750
Calkins, C. R. (Animal Science) - National Pork Producers Council	8,000
Campbell, J. B. (North Platte Station) - Union Pacific Foundation	9,000
Campbell, J. B. (North Platte Station) - FMC Corporation	475
Frey, M. L. (Veterinary Science) - USDA/ARS	55,000
Gardner, C. O. (Agronomy) - Pioneer Hi-Bred International, Inc.	9,500
Gast, R. G. (Agronomy) - USDA/ARS	32,000
Gilley, J. R. (Ag Engineering) - USDA/ARS	30,000
Johnson, R. K. (Animal Science) - Nebraska Pork Producers Association, Inc.	5,500
Kleis, R. W. (AES Director's Office) - USDA/CSRS	698,809
Martin, A. R. (Agronomy) - PPG Industries, Inc.	500
Mattern, P. J. (Agronomy) - Union Pacific Foundation	14,500
Mayo, Z. B. (Entomology) - Union Pacific Foundation	12,000
Moomaw, R. (Northeast Station) - Mobay Chemical Corporation	400
Moomaw, R. (Northeast Station) - Dow Chemical USA	1,000
Rehm, G. (Northeast Station) - Union Pacific Foundation	6,770
Roeth, F. W. (South Central Station) - Mobay Chemical Corporation	200
Rush, I. G. (Panhandle Station) - Eli Lilly & Company	14,000
Satterlee, L. (Food Science & Technology) - Prabhu D. Rawate	150
Schneider, N. R. (Veterinary Science) - Union Pacific Foundation	14,734
Shearman, R. C. (Horticulture) - Nebraska Turfgrass Foundation	3,846
Shearman, R. C. (Horticulture) - Brock-White Company	400
Wicks, G. A. (North Platte Station) - Mobay Chemical Corporation	275
Wilhite, D. A. (Ag Meteorology & Climatology) - National Science Foundation	27,015
Wilson, R. G. (Panhandle Station) - PPG Industries, Inc.	2,000
Witkowski, J. F. (Northeast Station) - FMC Corporation	600

\$1,045,374