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



Agricultural Experiment Station News

November 1983

VOL 17 NO 5

IANR REALLOCATION RECOMMENDATIONS

Reallocation recommendations involving the Agricultural Experiment Station program submitted by Vice Chancellor Arnold included:

- * Reduce part-time Assistant Director positions in Agricultural Experiment Station.
- * Reduce Associate Director positions at District Stations.
- * Transfer portion of research appointments in Ag Engineering and Ag Economics to AGNET and change AGNET reporting through the Director of the Biometrics and Info Systems Center from IANR Vice Chancellor to IANR Deans and Directors.
- * Eliminate plant disease research program in Department of Horticulture.
- * Eliminate waste management research program in Department of Agronomy.
- * Eliminate analytical service laboratory in Department of Agricultural Biochemistry.
- * Transfer egg products research program from Department of Animal Science to Department of Food Science and Technology/Food Processing Center.
- * Close out food flavors and evaluation program in Department of Food Science and Technology and redirect to food engineering program in Food Processing Center and departments of Agricultural Engineering and Food Science & Technology.
- * Close out research programs in Southeast Extension and Research Center and redirect to departments of Agronomy and Horticulture.

The implementation of these recommendations and those from the other IANR Divisions will depend on the outcome of the Academic Planning Committee hearings.

FACULTY RESIGNATIONS

Alfonso Torres-Medina, Associate Professor of Veterinary Science, to become an Associate Professor of Virology in the Diagnostic Laboratory of the New York State College of Veterinary Medicine at Cornell University.

A. Dale Flowerday, Professor of Agronomy, to accept a position as Western Division Agronomic Coordinator for Pioneer Hi-Bred International. He will continue to live in Lincoln.

FEDERAL RESEARCH BUDGET UPDATE

Since the Committee of Conference has agreed on appropriations for the USDA Cooperative State Research Service for 1983-84, it is expected that our Federal research support for the period October 1, 1983 through September 30, 1984 will include:

1. A 2.0% increase in Hatch payments to State Agricultural Experiment Stations.
2. A 2.0% increase in McIntire-Stennis Cooperative Forestry payments.
3. Restoration of Animal Health and Disease Research (1433) payments to states at same level as for 1982-83.
4. Restoration of Alcohol Fuels Research Grants (1419) research program at 1982-83 level.
5. Competitive Research Grant support for Plant Science (\$15 million) and Human Nutrition (\$2 million). Animal Science research support was recommended by both the House and Senate but not included in Continuing resolution. Total allocation is the same as for 1982-83.
6. P.L. 89-106 Special Research Grants that may be of special interest to Nebraska include:

Soybean Research	\$ 518,000
IPM	3,091,000
Minor use Animal Drugs	240,000
Animal Health Research	7,156,000
TCK smut (wheat)	361,000
Acid Precipitation	695,000

IANR ADMINISTRATIVE POSITIONS UPDATE

Agronomy Department Head: **Darrell Nelson** from Purdue University has accepted the position pending approval by the Board of Regents.

Plant Pathology Department Head: **Philip Larson** from Ohio State and **Anne Vidaver**, UNL, have interviewed for the position.

Veterinary Science Department Head: The position closed on September 30, 1983, and the committee has forwarded five names for consideration to the IANR administration.

Panhandle District Director: The position closed on October 15, 1983, and the committee is in the process of finalizing the list of candidates to be submitted to the IANR administration.

LAYMAN FUND PROPOSALS

IANR faculty research proposals from the Layman Fund are due in 109 Ag Hall by Wednesday, November 23, 1983. These grants are intended to enhance the quality and productivity of research at UNL. Proposals can range from a minimum of \$1,500 to a maximum of \$15,000 and should be for one-year projects only, since continued funding cannot be assumed. Last year, IANR received \$18,000 from this source to develop a whey utilization facility in the Food Processing Center.

NEBRASKA BANKERS ASSOCIATION GRANTS

IANR faculty research proposals for funding from the Nebraska Bankers Association grants are due in 202 Ag Hall to Vice Chancellor Roy Arnold by November 22. Maximum proposal is \$10,000. (More likely proposals in \$3,000-\$5,000 range would be funded.) Details available from your unit administrator.

WEIHING RETIREMENT RECEPTION

The Departments of Plant Pathology and Horticulture are hosting a reception in honor of **John and Shirley Weihing** on November 22, 1983. Weihing will be retiring on December 31, 1983 as Director of the Panhandle Station with 34 years of distinguished service to the University of Nebraska. The reception will be in the East Campus Union from 2-4 pm on November 22 and all faculty and staff are invited.

PROGRAM REVIEW

Programs in the Department of Forestry, Fisheries and Wildlife, including the Nebraska Forest Service, were reviewed September 26-29 by a team representing CSRS. Outside members of the team included **Don Duncan**, Director, School of Forestry, Fisheries and Wildlife, University of Missouri; **Robert Summerfelt**, Head, Department of Animal Ecology, Iowa State University; **Jay Schultz**, Head and State Forester, Kansas State and Extension Forestry, Kansas State University; and **Skip Shelton**, Extension Wildlife Specialist, School of Forest Resources, Mississippi State University. **Roger Gold**, Coordinator of Environmental Programs, represented IANR on the team; **Don Pierce** represented the Academic Planning Committee; and **Tom Christiansen**, President of the University Wildlife Club, was the student representative.

The team praised the Department's extension program in Wildlife Damage Control. They noted that it was the leading program in the country, being rivaled only by the program at the University of California-Davis. The review team was also impressed with the field research facilities, at the Mead Field Lab and the Horning State Farm. Because of the location of the Nebraska Forest Service within IANR and the Department of Forestry, Fisheries and Wildlife there exists an opportunity to translate research results and innova-

tions in forestry and wildlife management directly into action on the ground. The mission of the Nebraska Forest Service is to provide technical assistance in all aspects of forestry to Nebraskans. The team commended the Department for this aspect of programming.

The review team made some very useful suggestions about curricular modifications in the Natural Resources Teaching Curriculum and provided insight about emphases the program might take in the future.

FWW faculty were pleased with the review. It noted areas of strength but also had specific recommendations about how to improve areas that were not as strong.

Gary Hergenrader
Head & State Forester

SUGAR BEET RESEARCH PLEDGES

Stan Haas, Extension Communications Specialist at the Panhandle Station, reports that Panhandle residents have pledged \$65,000 to insure continuation of research on sugar beet transplanting. An additional \$30,000 has been pledged through the efforts of the Panhandle Development Foundation.

There are hopes of having sufficient research completed by 1985 to plant 5,000-10,000 privately owned acres of transplant beets. No figures are available yet on the outcome of test plots this year. **John Smith** indicates that transplanted beets appear to produce superior yields compared to the seeded plots.

Next year's program will include several new facets of study, including the economics of transplants from the greenhouse phase to on-farm production. Several other researchers will look into nematode control, evaluation of different potting mediums and weed control.

THE GOOD LIFE WORKSHOPS

Lois O. Schwab, Professor of Human Development and the Family, recently conducted a series of workshops across the state as part of her research project concerned with monitoring changes in services to disabled persons in Nebraska.

Our Common Concern: The Good Life, was the theme. In six one-day sessions, up-to-date information on food, clothing, accessible housing, financial management and family/social relationships was presented by home economists to personnel serving persons with disabilities. In turn, the home economists learned of the many area services for disabled persons. Emphasis was placed on the development of new resources, as well as what is available for helping people live more independently. Participants were asked to commit themselves to follow-up activities in their own area of expertise in their particular section of the state utilizing information and resources which they received at the workshop. **Gail Brand** coordinated the program.

EXTENSION AND SERVICE COUNCIL GRANT PROGRAMS

The Extension and Service Council has announced its grant program. Categories are travel grants and general grants. Examples of categories eligible for funding are:

— Travel to workshops designed to teach a specific extension and service technique and/or process.

— Honoraria for consultants external to the University, who are acknowledged experts in a *process* of extension and service.

— Proposals for the improvement of extension and service programs by individuals or groups within the University. Emphasis will be given to the development of process elements in the programs.

Deadlines for general grant proposals are 5:00 p.m., Wednesday, November 30, 1983 and Friday, March 30, 1984.

Proposals for travel grants will be accepted on a continuing basis.

For further information concerning eligibility and proposal format, contact **Ted B. Wright**, Secretary, 204 FLaw Building, City Campus 0104.

NEW OR REVISED RESEARCH PROJECTS

NEB 12-100 - Nitrogen Metabolism and Chemical Growth Regulation of Green Plants

This revised Hatch project has **L. A. Klepper** of the Agronomy Department as principal investigator. Objectives are (a) investigate control and regulatory mechanisms affecting nitrate reduction in green leaves and roots of selected species, (b) further examine the interacting metabolic processes between nitrate reduction and the mode of action of herbicides and other growth-regulating chemicals, and (c) attempt to elucidate the chemical or biochemical mechanisms whereby soybean plants and other species generate and evolve NO_x gases.

NEB 13-070 - Control of Gonadotropin Secretion in Boars

This new Hatch project will be led by **R. J. Kittock**, **R. K. Johnson** and **J. E. Kinder** of the Animal Science Department. Objectives are to investigate (a) role of gonadal steroid hormones in the control of gonadotropin secretion in developing and mature boars and in boars from a genetic line in which gilts have been selected for high rate of ovulation and (b) to determine if magnitude of negative feedback of gonadal steroid hormones on gonadotropin secretion is associated with testis size in boars.

NEB 14-018 - Integrated Methods of Parasite Control for Improved Livestock Production

This revised Hatch project, contributing to regional research project W-102, has **M. B. Rhodes** of the Veterinary Science Department as principal investigator. Objective of the research is to elucidate the immunology of parasitic infections and host-parasite interfaces.

NEB 17-040 - Aquatic Invertebrates as Indicators of Water Quality in Nebraska

The principal investigator is **K. P. Pruess** of the Entomology Department. Objectives of this new Hatch project are to (a) determine present water quality using biotic indices computed from indicator aquatic insects, (b) associate community structure of insect faunae with chemical and physical stream characteristics, (c) associate quality changes within streams with agricultural influences, (d) determine ecology and distribution of indicator species, and (e) prepare manual for use in water quality evaluation.

GRANTS AND CONTRACTS

Anderson, B. (Agronomy) - Anna H. Elliott Fund	9,845
Anderson, F. N. (Panhandle Station) - Anonymous	500
Blad, B. L. (Center for Ag. Meteorology and Climatology) - NASA - Johnson Space Center	76,000
Brumm, M. C. (Northeast Station) - Distributors Processing, Inc.	6,000
Burnside, O. C. (Agronomy) - Mobay Chemical Corporation	850
Burnside, O. C. (Agronomy) - PPG Industries, Inc.	1,800
Campbell, J. B. (North Platte Station) - Ralston Purina Company	500
Case, R. M. (Forestry, Fisheries & Wildlife) - Michigan State University	180
Coyne, D. P. (Horticulture) - Anna H. Elliott Fund	8,098
Deutscher, G. H. (North Platte Station) - The Upjohn Company	2,500
Hanna, M. A. (Ag Engineering) - Rocdale Farms, Inc.	1,405
Hanna, M. A. (Ag Engineering) - Ag-Matic Milling	170
Holtzer, T. O. (Entomology) - FMC Corporation	500
Johnson, R. K. (Animal Science) - Union Pacific	4,000
Klopfenstein, T. J. (Animal Science) - Pioneer Hi-Bred Int'l.	4,700
Lewis, A. J. (Animal Science) - Donation/Gift - Ajinomoto, USA	2,000
Mader, T. L. (Northeast Station) - Cadco	3,500
Mader, T. L. (Northeast Station) - International Minerals and Chemicals	4,500
Mader, T. L. (Northeast Station) - Distributors Processing Inc.	3,000
Mattern, P. J. (Agronomy) - USDA-ARS	18,000
Mayo, Z. B. (Entomology) - Mobay Chemical Corporation	800
Moomaw, R. S. (Northeast Station) - Mobay Chemical Corporation	300
Owen, F. G. (Animal Science) - Will Forbes	850
Roeth, F. W. (South Central Station) - Mobay Chemical Corporation	300
Rosenberg, N. J. and Hubbard, K. (Center for Ag. Meteorology and Climatology) - U.S. Dept. of Commerce-NOAA	4,998
Rupnow, J. (Food Science & Technology) - Dairy and Food Industries Supply	500
Rupnow, J. (Food Science & Technology) - Anonymous	100
Rupnow, J. (Food Science & Technology) - Nebraska Dairy Technology Society	300
Sander, D. H. (Agronomy) - Anna H. Elliott Fund	20,000
Schneider, N. R. (Veterinary Science) - Hormel	702
Shearman, R. C. (Horticulture) - Nebraska Turfgrass Foundation	4,000
Splinter, W. E. (Ag Engineering) - UN Foundation	1,000
VanEtten, J. L. (Plant Pathology) - National Institutes of Health	64,024
Waller, S. S. (Agronomy) - Union Pacific Foundation	1,778
Witkowski, J. F. (Northeast Station) - Otsuka Chemical Co. LTD	300
Total	248,000

NEW EXPERIMENT STATION PERSONNEL

Michael David Jawson assumed his position as Assistant Professor in the Department of Agronomy on August 1, 1983. Jawson received his B.S. from the University of Wisconsin-LaCrosse and his M.S. and Ph.D. from the University of Wisconsin-Madison. Before coming to Nebraska he was employed in the Department of Agronomy and Soils, Washington State University. Jawson is a member of the American Society of Agronomy, Soil Science Society of America and American Association of Microbiology.



Jean A. Memken, Assistant Professor, Education and Family Resources. Memken received her B.S. from Illinois State University, M.S. and Ph.D. from Iowa State University. She was the first recipient of the Award for Academic Achievement given by the College of Applied Science and Technology, Illinois State University. She is a member of the American Association of Housing Educators, American Home Economics Association, Environmental Design and Research Association and Midwest Sociological Society. Memken began her employment with the University in August.



On November 1, 1983, **John Havlin** assumed responsibilities in dryland soil and crop management at the Panhandle Station. He completed his B.S. degree in chemistry at Illinois State University, his M.S. and Ph.D. degrees in soil chemistry/fertility at Colorado State University. Havlin held a research/extension position at the University of Guelph in Ontario, Canada. The Havlin family has settled in Gering.



Audrey L. Hay is Assistant Professor and Dietetic Internship Director, Department of Human Nutrition and Food Service Management. Hay received her B.S. at California State University-Fresno, M.S. from University of Kansas, and Ph.D. from the University of Tennessee-Knoxville. She completed a dietetic internship at the University of Kansas Medical Center and is a Registered Dietitian. She is a member of the American Dietetic Association, Society of Nutrition Education, and Nutrition Today Society. Her employment at the University began July 1, 1983.



HOLIDAYS

The revised academic holidays for IANR faculty are:
December 1983 22nd* and 23rd (Thursday and Friday)
January 1984 3rd, 4th, 5th and 6th (Tuesday through Friday)
March 1984 26th, 27th, 28th, 29th and 30th (Monday through Friday)

*Note: December 22 is Commencement