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Agricultural Experiment Station News March 1983

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

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AES ADVISORY COUNCIL

Current members and administrative units making up the nine AES districts comprising the Advisory Council are:

1. **DALE G. ANDERSON,** Ag. Econ.; Ed. & Family Resources; Human Nutrition, Human Dev. & Family; Textiles, Clothing & Design. Term expires 1984.

2. **JAMES R. GILLEY,** Ag. Engineering; Ag. Biochemistry. Term expires 1985.

3. **ROBERT A. OLSON,** Agronomy (part); Biometrics; Forestry, Fisheries & Wildlife. Term expires 1983.

4. **RALPH E. NEILD,** Horticulture; Agronomy (part). Term expires 1983.

5. **AUSTIN J. LEWIS,** Animal Science; Ag. Education. Term expires 1985.

6. **MARVIN B. RHODES,** Veterinary Science. Term expires 1984.

7. **KHEM M. SHAHANI,** Food Science & Technology; Entomology; Environmental Programs; Plant Pathology. Term expires 1984.

8. **GEORGE W. REHM,** Northeast Station; Southeast Extension/Research Center; Panhandle Station. Term expires 1985.

9. **D. MURRAY DANIELSON,** North Platte Station; South Central Station; Ag. Communications; CAMaC. Term expires 1983.

A subcommittee consisting of **AUSTIN LEWIS** (chairman) and **JIM GILLEY** has been appointed to evaluate the distribution of units making up the nine districts. They will be making a recommendation to the Advisory Council on April 5, 1983. Districts #3, #4 and #9 are scheduled to elect new representatives for three-year terms and District #8 needs a two-year replacement for **GEORGE REHM.**

FACULTY SENATE COMMITTEES

BURT MAXCY (472-2817) and **ALLEN BOETTCHER** (423-3806) are members of the Faculty Senate Committee on Committees. They would appreciate receiving names of persons who would be interested in serving on specific Faculty Senate Committees. IANR Faculty willing to accept one of these important assignments are urged to visit with them.

ASSOCIATE DIRECTOR POSITION

The Station has approval to restore the Associate Director position to a full-time equivalent basis effective July 1, 1983. Faculty representation on the search committee will be obtained from names suggested by the AES Advisory Council. Qualifications include: a Ph.D. degree; a national research reputation in some field of agriculture; and qualify for the rank of professor. Preference will be given to individuals with proven administrative abilities.

The Assistant Vice Chancellor position in IANR will remain vacant and several responsibilities previously associated with that position will be assigned to the Director's Office when the Associate Director position is filled.

NEWSWORTHY PROJECTS

The Agricultural Experiment Station plans to adopt two new policies in an effort to more effectively communicate the results of our research projects to the public. Project leaders will be required to provide the AES with a short summary statement of their results at any time their project is scheduled for review, revision, or termination. Unit administrators will also be asked, in the future, to identify those annual progress reports (AD-421) that would be considered newsworthy. The Agricultural Communications Department will then develop news stories and other means of communication to get this information to the public. Scientists are also encouraged to communicate through their unit administrators anytime they have results that might be considered newsworthy.

NEW PROJECTS

NEB 13-067 - Redirecting the Nutrient Flow in Cows for Maximum Milk Production

This new Hatch project became effective October 1, 1982 and contributes to NC-171 Regional Research project. The principal investigators are **F. G. Owen** and **L. L. Larson** of the Animal Science Department. The objectives are (a) to determine the nutrient interrelationships in metabolic regulation of high-producing cows and (b) develop milk response curves with diets that differ in their effects on partition of nutrients between milk and tissue deposition.

NEB 15-034 - Composition, Architecture and Functional Role of the Photosynthetic Membrane

This is a new Hatch project with an effective date of February 1, 1983. **J. P. Markwell** of the Ag Biochemistry department is the principal investigator. The objectives are to elucidate: (a) the role that light-harvesting pigment protein complexes play in photosynthesis, (b) the supramolecular architecture of the photosynthetic membrane and how it changes in response to alterations in photosynthetic processes and (c) the mechanism whereby reorganization of components within the photosynthetic membrane brings about the State I-State II transition in steady-state regulation of photosynthetic energy production.

BUDGET MEETINGS SCHEDULED FOR APRIL

Annual budget meetings have been arranged during the month of April for discussion of next year's budget with IANR Unit Administrators. Each unit administrator will have an opportunity to discuss high priority program needs with the Vice Chancellor and Deans at these meetings.

SCIENTIFIC EQUIPMENT INVENTORY

The Agricultural Experiment Station is in the process of updating the scientific equipment inventory that was last published in January of 1980. From time to time, very special research instrumentation equipment will be highlighted in the Experiment Station Newsletter. A complete list of equipment, including a brief description of the equipment and its capabilities, will be available in April.

GRANTS AND CONTRACTS

Amend, J. F. (Veterinary Science) - Ag-Tronic, Inc.	4,000
Anderson, F. N. (Panhandle Station) - G. H. Smith	600
Ball, E. M. (Plant Pathology) - Idaho Crop Improvement Association	180
Brandle, J. R. (Forestry, Fisheries & Wildlife) - Nebraska Railroad Association	2,790
Bullerman, L. B. (Food Science & Technology) - Center for Infectious Diseases	1,200
Bullerman, L. B. (Food Science & Technology) - Monsanto Industrial Chemical	22,270
Clanton, D. C. (North Platte Station) - Distributors Processing, Inc.	5,500
Compton, W. A. (Agronomy) - Hoegemeyer Hybrids, Inc.	1,000
Coyne, D. P. (Horticulture) - Anna H. Elliott Fund	7,712
Deutscher, G. H. (North Platte Station) - The Upjohn Company	2,500
Dickey, E. (Ag Engineering) - UN Foundation	518
Eldridge, F. E. (Animal Science) - Tri-State Breeders Cooperative	400
Froning, G. W. (Animal Science) - UN Foundation	2,000
Gold, R. E. (Environmental Programs) - Dow Chemical USA	7,000
Hogg, A. (Veterinary Science) - Vigortone Ag Products	100
Kehr, W. R. (Agronomy) - USDA/ARS	25,000
Linsenmeyer, D. (Ag Economics) - Scoular-Bishop Grain Co. (UN Foundation)	8,300
Mader, T. L. (Northeast Station) - Hoffman-LaRoche, Inc.	3,900
Martin, D. (Ag Engineering) - University of Missouri (UN Foundation)	1,000
Miller, W. L. (Ag Economics) - Wolf Family via UN Foundation	13,510
O'Keefe, R. B. (Panhandle Station) - Chrisman & Chrisman	280
Owen, F. (Animal Science) - Will Forbes (UN Foundation)	1,319
Shahani, K. M. (Food Science & Technology) - Roberts Investments	6,000
Shearman, R. C. (Horticulture) - Nebraska Turfgrass Foundation	1,400
Splinter, W. E. (Ag Engineering) - UN Foundation	500
Thompson, T. L. (Ag Engineering) - UN Foundation	197
Torres-Medina, A. (Vet Science) - Norden Laboratories	320
Uhlinger, R. D. (Horticulture) - Nebraska Turfgrass Foundation	250
Underdahl, N. R. (Veterinary Science) - American Cyanamid Company	4,000
Verma, S. B. (Center for Agricultural Meteorology & Climatology) - National Science Foundation	129,000
	252,746