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# Agricultural Experiment Station News February 1974

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UNIVERSITY OF NEBRASKA-LINCOLN  
COLLEGE OF AGRICULTURE  
THE AGRICULTURAL EXPERIMENT STATION

H. W. OTTOSON, DIRECTOR AND  
ACTING DEAN

# Agricultural Experiment Station



Vol. 6, No. 8, February 1974

## OUR NEW LEADER

Dr. Duane C. Acker will become the first Vice Chancellor for Agriculture and Natural Resources on April 1. Dr. Acker has been Dean of Agriculture and Biological Sciences at South Dakota State University since 1966. Prior to that he was Director of Resident Instruction at Kansas State for four years following nine years on the Animal Science staffs of Iowa State and Oklahoma State. His native state was Iowa and his academic training was Iowa State and Oklahoma. Mrs. Acker is Shirley and two daughters are Deane Jean and LuAnn Fay. We look forward to their joining us.

## INSTITUTE OF AGRICULTURE AND NATURAL RESOURCES 1974-75 CAPITAL CONSTRUCTION REQUESTS STATUS

UN Priority (of 8)	Project	Regents Request	Governor's Recommendation	Legislative Staff Recommendation
1	Ani. Disease Res. Center	\$8,000,000*	\$6,300,000*	\$ 15,000**
3	Renovation of Foods & Nutrition Building	550,000	500,000	---
	Gen'l Renovation--UN-L	400,000	300,000	150,000
4	Curtis & Outstate Stations:			
	Curtis, Misc. Renovations	60,000	60,000	50,000
	Stations, Misc. Renovations	105,000	40,000	---
	N.P., Misc. Renovations	---	---	50,000
	N.P., Plant Materials Bldg.	142,000	---	10,000**
	S.C., Headquarters Bldg.	580,000*	580,000*	---
	N.P., Utilities	50,000	30,000	120,000
	P.H., Scale & Gas Line	30,000	---	---
	S.C., Land Development	30,000	---	30,000
	Curtis--Ag Hall Renovation	70,000	---	---
	Curtis--Production Ag. & Vet. Tech. Bldg.	836,000*	836,000*	836,000*
	Curtis--Swine & Beef Fac.	100,000	---	1,000**
6	Land Acquisition--UN	1,000,000	200,000	---
8	Planning (Among others):			
	Plant Sciences Bldg.	58,000	---	---
	Ag. Engr. Renovation	---	---	1,000***

\*To be funded over more than one year  
\*\*For revised program or planning  
\*\*\*For program development

## PERSONNEL ACTIONS

Benson, Ellsworth H. - Associate Prof. of Hort. and Forestry, Emeritus (retirement)  
Hanson, Ronald J. - Assistant Professor of Agricultural Economics (new appt.)  
Helms, Thomas J. - Participate in Peace Corps FARM program in Tunisia (leave)

## Personnel Actions (cont.)

Fox, Hazel M. - Serve as UNESCO consultant in Philippines (leave)  
Knoche, Herman W. - Head of Agr'l Biochemistry Laboratory (added appointment)  
Nielsen, Meryln Keith - Asst. Prof. of Animal Science (new appt.)  
Smith, Gerald M. - Asst. Prof. of Animal Science (courtesy appointment)

Stubbendieck, James L. - Assistant Professor of Agronomy - PH Sta. (new appt.)  
Torres-Medina, Alfonso - Assistant Prof. of Veterinary Science (new appt.)  
Tolman, Walter L. - Assistant Professor of Animal Science, Emeritus (retirement)

## GRANTS AND CONTRACTS

Burnside, Orvin C. - Agronomy - E. I. DuPont De Nemours and Co.	500
DeShazer, James A. - Agricultural Engineering - Farm-Tech Incorporated	1,500
Farlin, Stanley D. - Animal Science - Eli Lilly and Company	4,000
Fenster, C. R. - Agronomy (PH Sta.) - Eli Lilly and Company	500
Fenster, C. R. - Agronomy (PH Sta.) - PPG Industries	600
Hartung, T. E. - Food Science and Technology - NASA	20,000
Maxcy, Burt - Food Science and Technology - Natick Laboratories	21,155
Mayo, Z. B. - Entomology - Dow Chemical Company	1,200
O'Keefe, Robert - Horticulture and Forestry - State Department of Agr'l	3,500
Olson, R. A. - Agronomy - U. S. Dept. of Interior - OWRR	85,000
Rosenberg, Norman J. - Hort. and Forestry - U. S. Dept. of Interior - OWRR	51,025
Satterlee, L. & J. Kendrick - FS&T and Agr'l Econ. Devel.	5,000
Sullivan, Thomas W. - Poultry and Wildlife Science - American Cyanamid Co.	5,000
Sullivan, Thomas W. - Poultry and Wildlife Science - U. S. Brewers Assoc.	4,000
Twiehaus, Marvin J. - Veterinary Science - MVMA	1,768
Vidaver, Anne K. - Plant Pathology - National Institute of Health	23,715

## GENERAL NOTES

The Home Economics research programs were recently reviewed by a CSRS sponsored team of distinguished researchers. We congratulate the staff on their fine program presentations and believe that the review will contribute to the continued development of Home Economics research within the Agricultural Experiment Station.

Schnieder on Safety---"This is the time of year when bulky clothes can be pulled into open power mechanisms. Power drives should be completely shielded. If shields have been removed, replace them. If there are none, now is a good time to make and install some."

Sahs Sez---"Project leaders should plan needs and order early in all categories".

"Conservation Production Systems" is the program title and banner agreed upon by a new research and extension committee established to develop and coordinate broad base and intensified programs in the area variously referred to as minimum tillage, till-planting, slot planting, eco-fallow, etc. Many of you have productive histories in this general area and others of you have programs which interface importantly with it. There is new urgency and opportunity related to the energy problem and the continuing importance of economic, soil stability and moisture conservation factors. We have asked Dr. Flowerday and Dr. Wittmuss to serve as general coordinators in a broad research approach involving many of you and Dr. Moline to chair a similar move in extension programming. We think this is a very important opportunity and ask your cooperation and participation as related to your area of work.

R. W. Kleis

NEBRASKA AGRICULTURAL EXPERIMENT STATION PUBLICATIONS - January 1974

Journal Articles (contact authors for more information)

3727. Herbicide Breakdown at Different Depths in the Soil Profile. T. L. Lavy. Colombian Journal of Agronomy.
3728. Phosphate Placement for Corn (ZEA MAYS L.) in Chisel and Moldboard Plowing Systems. L. J. Cihacek, D. L. Mulveney, R. A. Olson, L. F. Welch and R. A. Wiese. Agronomy Journal.
3729. Additional Characteristics of the Bacteriophage  $\phi 6$  Genome. J. L. Van Etten, A. K. Vidaver, R. K. Koski and J. P. Burnett. Journal of Virology.
3730. Effect of Modified Plant Architecture of Great Northern Dry Bean Varieties (Phaseolus Vulgaris L.) on White Mold Severity, and Components of Yield. Dermot P. Coyne, J. R. Steadman and F. N. Anderson. Plant Disease Reporter.
3731. Synthesis of Ribonucleic Acid During the Germination of Rhizopus stolonifer sporangiospores. John R. Roheim, Robert H. Knight and James L. Van Etten. Bacteriology.
3732. Motile Cell Embedment. W. G. Langenberg. Stain Technology.
3733. Influence of Molecular Weights of Bacteriophage  $\phi 6$  Double Stranded RNAs on Interferon Induction. W. J. Kleinschmidt, J. L. Van Etten and A. K. Vidaver. Journal of Virology.
3734. Viruses as a Cause of Neonatal Calf Losses. M. J. Twiehaus and C. A. Mebus. Proceedings, American Association of Bovine Practitioners.
3735. A Di-Centric Robertsonian Translocation in a Dexter Cow. Franklin E. Eldridge. The Veterinary Record.
3736. Nonerodible Soil Aggregation as Related to Wheat Straw Mulch. D. E. Smika and B. W. Greb. Soil Science Society of America Proceedings.

Journal Abstracts (contact authors for more information)

- 73-274. Windrow Drying of Alfalfa Before Dehydration. R. L. Ogden and W. R. Kehr. American Dehydrators Assn. Convention, Jan. 30, 1974.
- 74-278. Relative Yields of Some Improved Varieties of Perennial Warm-Season Grasses Under Grazing. E. C. Conard. 27th Annual Meeting of the Society of Range Management.
- 74-279. Synthesis of Ribonucleic Acid During Germination of Rhizopus stolonifer Sporangiospores. R. H. Knight, J. R. Roheim and J. L. Van Etten. Proceedings of the American Society of Microbiology.
- 74-280. Single-Stranded Ribonucleic Acid Intermediates in the Replication of Pseudomonas phaseolicola Bacteriophage  $\phi 6$ . D. L. Coplin, J. L. Van Etten and A. K. Vidaver. Proceedings of the American Society of Microbiology.

- 74-281. Effects of Nitrogen Fertilization Practices on Yield and Quality of Sugarbeets. Frank N. Anderson and Gary A. Peterson. 18th General Meeting, American Society of Sugar Beet Technologists, San Diego, CA, February 24-28, 1974.
- 74-282. Extension Programs Help Farmers Adopt Research Findings on Their Farms. L. A. Daigger, F. N. Anderson and G. A. Peterson. 18th General Meeting, American Society of Sugar Beet Technologists, San Diego, CA.
- 74-283. Profitable Sugarbeet Production in Relation to Conservation of Phosphorus Fertilizer Resources. G. A. Peterson and F. N. Anderson. 18th General Meeting, American Society of Sugar Beet Technologists, San Diego, CA.
- 74-284. Reflectant Induced Modification to the Radiation Balance for Increased Crop Water Use Efficiency. Raoul Lemeur and Norman J. Rosenberg. International Seminar on Heat and Mass Transfer in the Environment of Vegetation.
- 74-285. Registration of Alfalfa Germplasm Pool NC-83-2. W. R. Kehr, D. K. Barnes, W. L. Sorensen, W. H. Skrdla, C. H. Hanson, D. A. Miller, T. E. Thompson, I. T. Carlson and M. K. Miller. Crop Science.
- 74-286. Registration of Alfalfa Germplasm Pool NC-83-1. W. R. Kehr, D. K. Barnes, E. L. Sorensen, W. H. Skrdla, C. H. Hanson, L. J. Elling, D. A. Miller, R. L. Taylor, M. D. Rumbaugh, T. E. Thompson, I. T. Carlson, E. T. Bingham and D. E. Brown. Crop Science.

BULLETINS PRINTED

- OTC 157. Performance of Soybean Varieties in Nebraska 1973. A. F. Dreier, J. H. Williams, R. S. Moomaw, G. M. Dornhoff and P. H. Grabouski.
- SB 530. Economies of Size and Plant Utilization in Distribution of Anhydrous Ammonia Fertilizer to Nebraska Farmers. Dale G. Anderson, Jeffrey L. Jorgensen and Doug C. Nelson.