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# Agricultural Experiment Station News September 1975

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THE AGRICULTURAL EXPERIMENT STATION  
INSTITUTE OF AGRICULTURE  
AND NATURAL RESOURCES  
UNIVERSITY OF NEBRASKA-LINCOLN  
H. W. OTTOSON, DIRECTOR

# Agricultural Experiment Station



Vol. 8, No. 3, September 1975

## FROM THE ACTING DIRECTOR'S DESK

The summaries of reports at the recent IANR staff meeting on the Station and on facilities development are being distributed to all staff. On the status of the Station, I would here only suggest that we are extremely fortunate, individually and collectively, to be involved in agriculturally related research at this point in history when there is such general recognition of the key role of agriculture in the several "crises" of society; population, food, environment, energy and economy. These problem areas represent both opportunities and obligations for us.

In facilities development some 30 major projects have been completed for the IANR programs since the last report to you in January 1974. These range from the new Home Economics building to the remodeling of the J. G. Elliott building for the Panhandle Station at Scottsbluff.

There are some 17 other substantial facilities projects currently in active process. These are listed in the report but I will here provide some additional information on those of more general interest. The first phase of the Animal Health Research Complex is nearing completion; phase two is well into construction; and the third and final phase has been contracted. The completion date for this final phase is projected as December 1976.

The Plant Sciences Complex is moving along well in design. The architects currently project the main building as a four-story unit immediately north of Keim Hall. It would be one story higher than Keim Hall. The first three floors would each have corridors connecting with both the east and west existing corridors in Keim. The greenhouse and headhouse components will be located contiguous to and easterly from existing forestry headhouse and greenhouse and also in a second east-west bank to the south and east of the weed science and forestry units. The new facilities will accommodate Plant Pathology, Horticulture and some Agronomy units. Agronomy will continue also to use Kiesselbach Crops Laboratory and Keim Hall. Entomology and Forestry will utilize increased space in the Plant Industry building after Plant Pathology and Horticulture move. This in turn will provide some relief from the crowding in Miller Hall as Forestry moves out.

The South Central Station Headquarters building is also in design. It is tentatively conceived as a two-story building of about 12,000 square feet located immediately west of the MARC headquarters building and probably connected by an enclosed corridor. In addition to offices and related facilities, it will include some laboratories and a general purpose room for demonstrations, exhibits, etc. and meetings of up to 200 people.

The Plant Industry building fire has caused much property loss, personal stress and program slippage. Everyone involved is being very cooperative in adjusting to make-shift temporary accommodations. We appreciate this and the assistance of other units in taking them in.

R. W. Kleis

## PERSONNEL ACTIONS

Larsen, Lester F. - Professor of Agricultural Engineering--Emeritus (Retirement)  
 Lytle, Paul W. - Associate Professor of Agricultural Economics (Resignation)  
 Stroike, James E. - Assistant Professor of Agronomy (Resignation)

## GRANTS AND CONTRACTS

Burnside, O. C. - Agronomy - American Cyanamid Company	500
Clegg, M. D. - Agronomy - Pioneer Hi-Bred International Incorporated	2,000
Coyne, D. P. - Horticulture - Green Giant Foundation	1,500
Fenster, C. R. - Agronomy (PH Sta.) - Ansul Company	1,000
Fenster, C. R. - Agronomy (PH Sta.) - Nebraska Wheat Division	10,000
Hagen, A. F. - Entomology (PH Sta.) - Miscellaneous Donors	850
Klopfenstein, T. - Animal Science - Deere and Company	10,000
Klucas, R. V. - Biochemistry Laboratory - NSF	50,000
Mattern, P. J. - Agronomy - Nebraska Wheat Development Division	6,234
Mayo, Z. B. & J. B. Campbell et al - Entomology (NP Sta.) - Anna Elliott Fund	11,400
Mayo, Z. B. - Entomology - Mobil Chemical Company	2,000
Maxcy, R. B. - Food Science and Technology - Natick Laboratories	25,853
Nelson, L. A. & W. A. Compton - Agronomy (PH Sta.) - Anna Elliott Fund	7,000
O'Keefe, R. B. - Horticulture - State Department of Agriculture	3,500
Perry, L. J. - Agronomy - Anna Elliott Fund	9,565
Peterson, G.; F. Anderson & J. Hart - Agronomy (PH Sta.) Anna Elliott Fund	5,150
Sander, D.; G. Peterson & L. Daigger - Agronomy (PH Sta.) Neb. Wheat Division	18,200
Schmidt, J. W. - Agronomy - Nebraska Department of Agriculture	10,000
Shearman, R. C. - Horticulture - Nebraska Turfgrass Council	950
Stubbendieck, J. L. - Agronomy (PH Sta.) - Anna Elliott Fund	2,935
Sullivan, T. W. - Poultry and Wildlife Sciences - Key Milling Company	1,000
Twiehaus, M. J. - Veterinary Science - Nebraska Pork Producers	2,000
Vidaver, A. K. - Plant Pathology - State Department of Agriculture	2,500
White, R. G. - Veterinary Science (NP Sta.) - Norden Laboratories	600

## GENERAL NOTES

1. The search committee for the District Director, North Platte Station and District II, includes the following: Jack Campbell (Chairman), Darrell Watts, Paul Nordquist, Bob Klein, Elizabeth Kime, Dave Stenberg, Don Sander and Marv Twiehaus. They will welcome your suggestions and they desire them soon.
2. A search committee has also been designated for a successor to Dr. Twiehaus whose mandatory retirement from administrative duty comes up this year. The committee includes staff members Alex Hogg, Norm Underdahl, Larry McGill, Don Ferguson, Ernie Peo and Erv Omtvedt in addition to student and industry people. They also will welcome your suggestions of candidates.
3. Schnieder on Safety - Fall harvesting operations are particularly dangerous. Exercise and promote safety.
4. Sals Says - Dove hunting is not permitted at the Field Laboratory, nor is trapping or deer hunting. Major specified areas of the Lab will be open to shotgun hunting of small game November 1 to December 14.
5. District Stations and field research units look particularly good this year. Good weather, good programs and much improved housekeeping all have contributed.

Journal Articles (contact authors for more information)

4035. The Nutrition Knowledge and Attitudes of Licensed Physicians Practicing in Nebraska. Tama O. Krause and Hazel M. Fox. Journal of Medical Education.
4036. Poultry Nutrition Research 1974. Thomas W. Sullivan. Proceedings of 23rd Annual Pfizer Research Conference.
4037. Use of Electronic Meat Measuring Equipment for Predicting the Cut-out Value of Beef Carcasses. Robert M. Koch and W. L. Varnadore. Journal of Animal Science.
4038. Registration of Dryland Alfalfa Germplasm Pool C-3 (Reg. No. GP). C. E. Townsend, W. R. Kehr, E. L. Sorensen, M. D. Rumbaugh, M. W. Pedersen, D. K. Barnes, G. A. Rogler and C. H. Hanson. Crop Science.
4039. Curriculum for Systematic Inquiry and Practice in Secondary School Home Economics Programs. Dr. Shirley Kreutz. Journal of Home Economics.
4040. A Modified Milling Procedure for Separating Endosperm and Non-Endosperm Portions of the Wheat Kernel for Protein and Lysine Analysis. K. P. Vogel, P. J. Mattern and G. W. Lenser. Agronomy Journal.
4041. Graphic Representation: From Intellectual Realism to Visual Realism in Draw a House-Tree Task. Violet Kalyan-Masih. Child Development.
4042. Lets Take Another Look at Competitive Marketing. Ralph D. Johnson and Richard J. Crom. Proceedings, Western Agricultural Economics Association, July 20-22, 1975.
4043. Separation of Components of Barley Stripe Mosaic Virions by Density-Gradient Centrifugation. M. K. Brakke and Manuel K. Palomar. Virology.
4044. Protein and Lysine Contents of Whole Grain, Endosperm, and Bran of the Parents and Progenies of High Protein and/or High Lysine Crosses of Common Wheat. K. P. Vogel, V. A. Johnson and P. J. Mattern. Crop Science.
4045. Registration of Eight Sorghum Parental Lines. O. J. Webster, P. T. Nordquist and L. V. Peters. Crop Science.
4046. Isolation and Characterization of a Protein Concentrate From Brewers Yeast. C. L. Kreshel and L. D. Satterlee. Journal of Food Science.
4047. Characterization of Products from Wet Fractionation of Wheat Bran. W. A. Hansmeyer, L. D. Satterlee and P. J. Mattern. Journal of Food Science.
4048. How to Tell - Corn, Sorghum Maturity. J. D. Eastin, J. T. Hultquist and C. Y. Sullivan. Sorghum Conference, Puerto Rico.
4049. Germination of Rhizopus stolonifer sporangiospores. James L. Van Etten, Larry D. Dunkle and Shelby Freer. Book, "Eukaryotic Microbes as Model Developmental Systems." Ed. by D. H. O'Day and P. A. Horgen.
4050. Glutamate Dehydrogenase in Rats Fed Raw Soybean and Nitrogen-Free Rations. Simon Arahamian and Raymond Borchers. Proc. Soc. Expt. Biol. Med.
4051. Selection for Rate and Efficiency of Lean Gain in the Rat. David R. Notter, G. E. Dickerson and J. A. DeShazer. Genetics.

4052. Physical & Chemical Characteristics of Sediments Originating from Missouri Valley Loess. G. E. Schuman, R. F. Piest, R. G. Spomer. Proceedings of Federal Interagency Sedimentation Conf., Denver, Colorado. March 22-26, 1976.
4053. A Comparison of Selected Cation Concentrations in the Soil Solution. L. F. Elliott, T. A. Travis and T. M. McCalla. Soil Science Society of America Proceedings.
4054. Desiccation of Grain Sorghum. D. R. Gigax and O. C. Burnside. Agronomy Journal.
4055. Geologic Nitrogen in Pleistocene Loess of Nebraska. J. S. Boyce, John Muir, A. P. Edwards, R. A. Olson and E. C. Seim. Journal of Environmental Quality.
4056. Increasing Legume Seed Germination by VHF and Microwave Dielectric Heating. S. O. Nelson, L. A. T. Ballard, L. E. Stetson and T. Buchwald. Transactions of the ASAE.
4057. Effect of Low-Dose Gamma Irradiation on Enterotoxin-Producing Strains of Clostridium perfringens. H. M. Barnhart and L. B. Bullerman. Journal of Food Science.
4058. Specific Interactions Involving Hormonal and Other Changes. J. M. Daly. A chapter in a book on "Specificity in Plant Diseases."
4059. Protein and Lysine Content of Grain, Endosperm, and Bran of Wheats from the USDA World Wheat Collection. K. P. Vogel, V. A. Johnson and P. J. Mattern. Crop Science.
4060. Bacteria in the Air of a Housed Swine Unit. L. F. Elliott and T. M. McCalla. Journal of Applied Microbiology.
4061. Nitrite Accumulation within Herbicide-treated Leaves. Lowell A. Klepper. Weed Science.
4062. Nitrite Accumulation: An Explanation for Synergistic Combinations of Herbicides. Lowell A. Klepper. Weed Science.
4063. Metabolic Response to a Pantothenic Acid Deficient Diet in Humans. Helen G. Tao and Hazel M. Fox. Home Economics Research Journal.
4064. Measurements of Urinary Pantothenic Acid Excretions of Alcoholic Patients. Helen G. Tao and Hazel M. Fox. Home Economics Research Journal.

Journal Abstracts (contact authors for more information)

- 75-477. Methionine Hydroxy Analog Additions to Diets of Beef Cows. L. W. Varner, A. H. Denham, W. C. McCone, G. E. Nelms, W. H. Smith, J. K. Ward and E. H. Cash. Journal of Animal Science.

BULLETINS PRINTED

- RB 273. An Economic Information Program for the U. S. Beef and Pork Sectors. N. A. Aulaqi and J. B. Hassler.
- RB 274. Bionomics of Insects Associated with Corn in the Nebraska Sandhills. J. L. Wedberg, J. B. Campbell and T. J. Helms.