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## Agricultural Experiment Station News May 1978

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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. 10, No. 11, May, 1978

## FROM THE DIRECTOR'S DESK

1. Congratulations to the following IANR staff granted tenure at the April meeting of the Board of Regents: Robert Britton (An. Sci.), Osmund Gilbertson (Ag. Ed.), Merwin Frey (Vet. Sci.), James Gilley (Ag. Eng.), Keith Gilster (An. Sci.), Dean Johnson (4-H), Leslie Lane (Plant Path.), Larry Larson (An. Sci.), Anne Parkhurst (Biomet), Darryll Pederson (Cons. & Surv.), Robert Retzlaff (Ag. Econ.), and Don Siffring (4-H).
2. The following field days schedules have been called to our attention. You may want to note them in planning outstate travel this summer.
  - June 9 - Wheat tour - Northwest Agricultural Laboratory
  - June 22 - Weeds Control Tour - Panhandle Station
  - June 27 - High Plains Agricultural Laboratory Field Day
  - June 26 or 28 - Northwest Agricultural Laboratory Field Day
  - July 27 - Tractor Power and Safety Day - Field Laboratory
  - August 2 - Sandhills Agricultural Laboratory Field Day
  - August 3 - Panhandle Station Field Day
  - August 16 - Sorghum and Millet Field Day - High Plains Agricultural Laboratory
  - August 16 - South Central Station Field Day
  - August 25 - Nebraska/Wyoming Potato Tour - Panhandle Station
  - August 29 - Northeast Station Field Day
  - September 24 - North Platte Station Open House - 75th Anniversary
3. Project leaders are responsible for keeping their approved project outlines current and approved along with related CRIS forms. This isn't pleasant duty but it is part of the job of an AES researcher.
4. Please try to plan ahead and minimize the number of "carry through" documents: requisitions, movement of copy forms, travel requests, grant proposals, etc.
5. Present plans (hopes) call for moving into the new Plant Science building before the start of the fall semester in August.
6. Construction activity has begun on the new "Agricultural Engineering Annex" north of the tractor test track. The recent Legislative session provided a "planning" appropriation for the extensive renovation of the present Agricultural Engineering building.
7. Please be reminded again of the availability of the security parking compound west of Stewart Seed Laboratory for University vehicles. This not only provides security but relieves other parking areas.
8. It is not what you are working on but what you get done that counts.

R. W. Kleis

## PERSONNEL ACTIONS

Dunkle, Larry D. - Plant Path. - Assoc. Prof. - Resignation (to USDA/SEA)  
 Hansen, Dennis J. - Cons. & Surv. Div. - Instructor - New Appointment  
 Kroutil, Wayne F. - Ag. Eng. (N.P. Sta.) - Dist. Eng. Irrig. - Prof.-New Appt.  
 Leavitt, J. Robert C. - Agronomy - Asst. Professor - New Appointment

Miltonberger, Ronald - Ag. Economics - Research Asst. - New Appointment  
 Nill, Joanne S. - Ag. Communications - Instructor - Resignation (to Univ. of MO)  
 Schinstock, Jack L. - Ag. Education - Asst. Professor - New Appt. - Courtesy Appt.  
 Schulte, Dennis D. - Ag. Engineering - Assoc. Professor - New Appointment

Siletto, Thomas A. - Ag. Engineering - Asst. Professor - New Appointment  
 Wilhelmi, Kenneth D. - Agronomy - Asst. Professor - Resig. (Industry in Penn.)  
 Wingate, Scott D. - Cons. & Surv. Div. - Instructor - New Appointment  
 Wright, Ronald G. - Cons. & Surv. Div. - Instructor - New Appointment

## GRANTS AND CONTRACTS

Boosalis, M. G. - Plant Path. - Agricultural Research Service	\$ 4,000
Burnside, O. C. - Agronomy - Mobil Chemical Company	1,000
Burnside, O. C. - Agronomy - E. I. DuPont DeNemours & Co. Inc.	500
Burnside, O. C. - Agronomy - Shell Chemical Company	750
Burnside, O. C. - Agronomy - Velsicol Chemical Corp.	700
Compton, W. A. - Agronomy - Hoegemeyer Hybrids, Inc.	500

Farlin, S. D. - Animal Science - Eli Lilly & Company	8,400
Ferguson, D. L. - Vet. Sci. - Smith Kline Animal Health Products	8,500
Gluesing, E. A. - Forestry, Fisheries & Wildlife - Game & Parks	10,200
Haderlie, L. C. - Agronomy - Velsicol Chemical Corporation	7,500
Hagen, A. F. - Entomology (P.H. Sta.) - Union Carbide Corp.	500
Kies, C. - Food & Nutrition - Ross Laboratories	9,500

Klopfenstein, T. J. - Animal Science - Eli Lilly and Company	6,000
Maxcy, R. B. - Food Sci & Tech - US Army - Natick Res & Dev Command	55,123
Mayo, Z. B. - Entomology - Mobil Chemical Company	1,250
Peters, L. L. - Entomology (S.C. Sta.) - Dow Chemical Company	250
Peters, L. L. - Entomology (S.C. Sta.) - Union Carbide Company	1,000
Peters, L. L. - Entomology - (S.C. Sta.) - Mobil Chemical Co.	750

Retzlaff, R. E. J. - Ag. Economics (P.H. Sta.) - John Sorensen	200
Roeth, F. W. - Agronomy (S.C. Sta.) - Kalo Laboratories, Inc.	250
Shearman, R. C. - Horticulture - Nebraska Turf Grass Fdtn.	1,200
Shearman, R. C. - Horticulture - OMC-Lincoln	800
Sullivan, T. W. - Animal Science - IMC Chemical Group, Inc.	3,000
Wilson, Jr., R. G. - Agronomy (P.H. Sta.) - Shell Chemical Co.	500

All grant activation documents must be accompanied by SOPP forms as they go forward from this office. This applies to proposals, agreements or checks, whichever is the first action item. This also applies to grant extensions or supplements as they occur. Please know that we are no more inspired by the logic or utility of these forms than you, but they are required to go to the statehouse. To send proposals to us without the SOPP forms simply delays processing.

R. W. Kleis

NEBRASKA AGRICULTURAL EXPERIMENT STATION PUBLICATIONS - April 1978

Journal Articles (contact authors for more information)

5495. Effects of Microsporidian Infections on Field Populations of European Corn Borers in Nebraska. Roscoe E. Hill and Walter J. Gary. Environmental Entomology.
5496. Chilling of Tissue Prior to Glutaraldehyde Fixation Preserves Fragile Inclusions of Several Plant Viruses. Willem G. Langenberg. Journal of Ultrastructure Research.
5497. Sire by Environment Interactions in Beef Cattle Field Data. D. S. Buchanan and M. K. Nielsen. Journal of Animal Science.
5498. Radiofrequency and Microwave Dielectric Properties of Shelled Field Corn. Stuart O. Nelson. ARS and USDA Series Publication.
5499. Development of Dothistroma Pini On and Within Needles of Austrian and Ponderosa Pines in Eastern Nebraska. Glenn W. Peterson and James A. Walla. Phytopathology.
5500. Combining Ability in Forage Sorghum Hybrids. W. M. Ross, H. J. Gorz, F. A. Haskins and K. D. Kofoid. Maydica.
5501. Conversion of an Underfloor Swine Manure Storage Pit to a Flush System. C. B. Gilbertson and J. A. Nienaber. Transactions of the American Society of Agricultural Engineers.
5502. The Effect of  $A_w$  of Meat Products on Growth of Radiation Resistant M-A. L. D. Snyder and R. B. Maxcy. Journal of Food Science.
5503. Distribution of Eastern and Western Alfalfa Weevil in Nebraska. L. E. Klostermeyer and G. R. Manglitz. Journal Kansas Entomological Society.
5504. Planting versus Cultivation Time Applications of Granular Soil Insecticides to Control Larvae of the Corn Rootworms in Nebraska. Z B Mayo and L. L. Peters. Journal of Economic Entomology.
5505. Comparison of the Hydrocyanic Acid Potential of Sorghum Seedlings and Tillers. F. A. Haskins, H. J. Gorz and R. L. Nielsen. Agronomy Journal.
5506. Patterns of Cell Division, DNA Base Compositions, and Fine Structure of Some Radiation-Resistant Vegetative Bacteria. S. W. Sanders and R. B. Maxcy. Journal of General Microbiology.
5507. The Effects of Siduron on "Kentucky 31" Tall Fescue Seedling Emergence, Growth and High Temperature Tolerance. R. C. Shearman, E. J. Kinbacher and K. A. Reiferson. Crop Science.
5508. The Complementary Effects of Corn Gluten Meal with Urea as Sources of Supplementary Nitrogen to Growing Calves and Lambs. N. N. Umunna, Terry Klopfenstein, Sumer Hasimoglu and Walter Woods. Journal of Animal Science.
5509. RF and Microwave Dielectric Properties of Shelled, Yellow-Dent Field Corn. Stuart O. Nelson. Transactions of the American Society of Agricultural Engineers.

Journal Abstracts (contact authors for more information)

- 78-1006. Wheat Straw and NaOH Treated Wheat Straw in Maintenance Diets for Ruminants. C. W. Acock, J. K. Ward, I. G. Rush and T. J. Klopfenstein. Journal of Animal Science.
- 78-1007. Effect of Location, Variety, and Maturity on Characteristics of Wheat Straw. C. W. Acock, J. K. Ward, I. G. Rush and T. J. Klopfenstein. Journal of Animal Science.
- 78-1008. Alfalfa in Swine Finishing Diets: Feedlot Performance. P. H. Grabouski and D. M. Danielson. American Society of Animal Science.
- 78-1009. Comparison of Pantothenic Acid Nutritional Status of Human Adolescents and Adults. J. V. Kathman and C. Kies. American Dietetic Association.
- 78-1010. Effects of Greenbugs on Resistant Grain Sorghum Cultivars. S. D. Kindler, R. Staples, L. L. Peters and P. T. Nordquist. Presentation at NCB-ESA Meeting, April 5, 1978.
- 78-1011. Effect of Dietary Roughage on Reproductive Performance and Hematology of Sows. D. S. Pollmann, D. M. Danielson and E. R. Peo, Jr. American Society of Animal Science.
- 78-1012. Effect of Probiotics in Growing-Finishing Swine Diets. D. S. Pollmann, D. M. Danielson and E. R. Peo, Jr. American Society of Animal Science.
- 78-1013. Reproduction and Lactation Response of Sows to Dietary Additions of Alfalfa and Tallow. D. S. Pollmann, D. M. Danielson, M. A. Crenshaw and E. R. Peo, Jr. American Society of Animal Science.
- 78-1014. Interacting Effects of Lactose and Calcium and Phosphorus Levels of Gain, Feed Conversion, Blood, Gut Tissues and Bone Parameters of G-F Swine. R. L. Moser, E. R. Peo, Jr., T. D. Crenshaw, G. Kennedy, B. D. Moser and P. J. Cunningham. American Society of Animal Science.
- 78-1015. Effect of Varying Levels of Cornstarch and Lactose on Gain, Feed Conversion, Blood and Bone Parameters in Growing Rats. R. L. Moser, E. R. Peo, Jr., T. D. Crenshaw, B. D. Moser and P. J. Cunningham. American Society of Animal Science.
- 78-1016. Effect of Genetic Line and Ca-P Levels of Growing Boars. R. D. Nimmo, E. R. Peo, Jr., B. D. Moser, P. J. Cunningham and T. D. Crenshaw. American Society of Animal Science.
- 78-1017. Effect of Varying Levels of Dietary Ca-P on Performance, Blood and Bone Parameters in Growing Boars. R. D. Nimmo, E. R. Peo, Jr., B. D. Moser, P. J. Cunningham and T. D. Crenshaw. American Society of Animal Science.
- 78-1018. Influence of Age and Sex on Tibia Development and Body Size in Large White Turkeys. T. W. Sullivan and Ayhan Aksoy. Poultry Science.

BULLETINS PRINTED

- RB 274. Bionomics of Insects Associated With Corn in the Nebraska Sandhills. J. L. Wedberg, J. B. Campbell and T. J. Helms.