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Agricultural Experiment Station News August 1982

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Agricultural Experiment Station News

FROM THE DIRECTOR'S DESK

Dean and Director Search and Selection:

As Vice Chancellor Arnold has informed you, the Search Advisory Committee has submitted its report and recommendations including three candidates. The interviews were scheduled and provided opportunities for staff to meet informally with the candidates. We hope you did so. This important process should be completed in the next few weeks.

Instrument Repair Service:

All AES scientists are reminded that we have established a scientific instrument repair service on the East Campus in Agricultural Biochemistry Hall (Phone 472-6866). This service is on a charge basis through arrangements the AES has made with Scientific Stores and a private firm. This service has already demonstrated reduced "down time" for users.

Advisory Committee to Secretary Block:

R. W. Kleis has been appointed by Secretary Block to serve a two year term on the USDA Joint Committee on Science and Technology starting immediately.

ARS Program Distribution:

There is much current concern in Washington and in this region about the geographic distribution of USDA in-house research. A spring 1982 report by Dr. Hodgson of the Wisconsin Station "identified" the following data which others are pursuing in the interest of the North Central region.

Region	Cash Receipt from Farming*	ARS Research Support*
North Central	44	22
North East	6	26
Southern	29	32
Western	21	20
	100	100

* Percent of U.S. Total

Indirect Costs on Grants:

Please be reminded that indirect costs (31 percent of Total Modified Direct Costs) are to be budgeted into all

grants (except industry grants of \$2,500 or less). These are real and legitimate costs and to not include them is unfair to other segments of the Station program which then must "subsidize" those grants.

Vacation Time:

If you haven't yet taken vacation time this year, you are encouraged to work it into your schedule. It is important to you, to families and to your work.

R. W. Kleis
Acting Dean & Director

EXPERIMENT STATION ADVISORY COUNCIL

Three new members were elected recently to the Agricultural Experiment Station (AES) Advisory Council. They are:

Dr. George W. Rehm, Extension Agronomist and Professor of Agronomy, Northeast Station

Dr. Austin J. Lewis, Associate Professor, Department of Animal Science

Dr. James R. Gilley, Associate Professor, Department of Agricultural Engineering

They will join the following staff to make up the Agricultural Experiment Station Advisory Council for the 1982-83 year:

Dr. Dale G. Anderson (Chairman), Professor, Department of Agricultural Economics

Dr. Robert A. Olson, Professor, Department of Agronomy

Dr. Ralph E. Neild, Professor, Department of Horticulture

Mr. Marvin B. Rhodes, Associate Professor, Department of Veterinary Science

Dr. Khem M. Shahani, Professor, Department of Food Science and Technology

Dr. D. Murray Danielson, Swine Nutritionist and Professor of Animal Science, North Platte Station

Sincere thanks goes to the following staff just completing their terms on the Council:

Dr. Eric D. Kerr, Professor of Plant Pathology, Panhandle Station

Dr. John K. Ward, Professor, Department of Animal Science

Mr. Gerald R. Bodman, Associate Professor, Department of Agricultural Engineering

Grants and Contracts

Ball, E. M. (Plant Pathology) - Steven Carstens	50	
Ball, E. M. (Plant Pathology) - Montana State University	600	
Brandle, J. R. (Forestry, Fisheries & Wildlife) - Nebraska Railroad Ass'n	687	
Branen, A. L. (Food Science & Technology) - General Mills	5,000	
Branen, A. L. (Food Science & Technology) - Easco, Inc.	20	
Brink, D. R. (Animal Science) - A. H. Robins Company	22,000	
Britton, R. A. (Animal Science) - USDA/ARS	16,300	
Burnside, O. C. (Agronomy) - Lilly Research Lab - UN Foundation	2,000	
Burnside, O. C. (Agronomy) - American Hoechst Corporation	1,000	
Burnside, O. C. (Agronomy) - Velsicol Chemical Corporation	1,000	
Burnside, O. C. (Agronomy) - Union Carbide	3,200	
Burnside, O. C. (Agronomy) - ICI Americas, Inc.	500	
Campbell, J. B. (North Platte Station) - ICI Americas, Inc.	500	
Case, R. M. (Forestry, Fisheries and Wildlife) - Union Pacific Foundation	7,500	
Clanton, D. C. (North Platte Station) - International Minerals and Chemical Corp.	7,500	
Compton, W. A. (Agronomy) - Jacques Seed Company	1,000	
Compton, W. A. (Agronomy) - Pfizer Genetics	100	
Dickinson, E. O. (Veterinary Science) - Nebraska SPF Swine Accrediting Agency	2,622	
Eldridge, F. (Animal Science) - American Breeders Service	1,750	
Fenster, C. R. (Panhandle Station) - Mobay Chemical Corporation	500	
Fenster, C. R. (Panhandle Station) - Stauffer Chemical	700	
Fenster, C. R. (Panhandle Station) - E. I. duPont deNemours & Company	2,000	
Flowerday, A. D. (Agronomy) - National Crop Insurance Association	458	
Flowerday, A. D. (Agronomy) - The Upjohn Company	400	
Flowerday, A. D. (Agronomy) - BASF Wyandotte Corporation	500	
Flowerday, A. D. (Agronomy) - Mandops, Inc.	3,050	
Flowerday, A. D. (Agronomy) - Crows Hybrid Corn Company	7,000	
Flowerday, A. D. (Agronomy) - The Popcorn Institute	3,000	
Froning, G. W. (Animal Science) - American Egg Board	6,600	
Gardner, C. O. (Agronomy) - The Popcorn Institute	7,000	
Gardner, C. O. (Agronomy) - Chevron Chemical Company	9,000	
Gustafson, W. A. (Southeast Extension and Research Center) - Donation/Gift - Charmglow Products	600	
Hergert, G. W. (North Platte Station) - Olin Corporation	3,000	
Kerr, E. D. (Panhandle Station) - FMC Corporation	1,000	
Kerr, E. D. (Panhandle Station) - Union Carbide	800	
Klopfenstein, T. (Animal Science) - Elanco	500	
Klopfenstein, T. (Animal Science) - Eli Lilly and Company	4,000	
Knoche, H. W., Daly, J. M., and Gross, M. L. (Ag Biochemistry) - National Science Foundation	31,000	
Lane, L. C. (Plant Pathology) - NC + Hybrids	350	
Lane, L. C. (Plant Pathology) - Funk Seeds International	800	
Mader, T. L. (Northeast Station) - International Minerals & Chemical Corporation	4,500	
Moomaw, R. (Northeast Station) - Velsicol Chemical Corporation	1,250	
Moomaw, R. (Northeast Station) - American Hoechst Corporation	1,000	
Moomaw, R. (Northeast Station) - 3M	500	
Moomaw, R. (Northeast Station) - Union Carbide Agricultural Products	500	
Moser, L. E. (Agronomy) - Union Carbide	7,331	
O'Keefe, R. B. (Panhandle Station) - Diamond Shamrock Corporation	1,000	
Olson, R. A. (Agronomy) - The Sulphur Institute	1,755	
Olson, R. A. (Agronomy) - CIMMYT	1,000	
Partridge, J. E. (Plant Pathology) - Stauffer Chemical Company	15,000	
Peters, L. L. (South Central Station) - FMC Corporation	500	
Roeth, F. W. (South Central Station) - American Hoechst Corporation	750	
Roeth, F. W. (South Central Station) - ICI Americas, Inc.	500	
Roeth, F. W. (South Central Station) - Union Carbide Ag Products Company	900	
Shahani, K. M. (Food Science and Technology) - Ira W. DeCamp Foundation	25,000	
Shearman, R. C. (Horticulture) - 3M Company	500	
Shearman, R. C. (Horticulture) - BFC Chemicals, Inc.	1,000	
Steadman, J. R. (Plant Pathology) - Diamond Shamrock	1,500	
Stetson, L. E. (Ag Engineering) - Nebraska Energy Office	10,000	
Stetson, L. E. (Ag Engineering) - Nebraska Rural Electric Association	2,000	
Vidaver, A. K. (Plant Pathology) - Microlife Technics	1,000	
Waller, S. S. (Agronomy) - Lower Republican Natural Resources District	2,000	
Wicks, G. A. (North Platte Station) - Shell Development Company	3,000	
Wilson, R. G. (Panhandle Station) - Agricultural Products Company, Inc.	1,900	
Wilson, R. G. (Panhandle Station) - Dow Chemical	1,000	
Wilson, R. G. (Panhandle Station) - Uniroyal Chemical Company	1,000	
Witkowski, J. F. (Northeast Station) - FMC Corporation	1,000	
Witkowski, J. F. (Northeast Station) - American Hoechst Corporation	500	
Witkowski, J. F. (Northeast Station) - ICI Americas, Inc.	1,000	
Witkowski, J. F. (Northeast Station) - Union Carbide	800	
Yonts, C. D. (Panhandle Station) - Upper Niobrara-White Natural Resources District	350	
Yonts, C. D. (Panhandle Station) - Anna H. Elliott Fund	6,100	
Yonts, C. D. (Panhandle Station) - South Platte Natural Resources District	350	

252,073

Journal Articles - Submitted for Publication (contact authors for more information)

6930. Genetics and Nature of Resistance to the Powdery Mildew (Erysiphe cichoracearum DC) Pathogen in Cucurbita moschata Poir Crosses. A. A. Adeniji and D. P. Coyne. Journal of the American Society of Horticultural Science.
6931. Populations and Economic Impacts of Stable Flies on Cattle. I. L. Berry, D. A. Stage and J. B. Campbell. ASAE Transactions.
6932. Detection of Processing Endoproteinases in Polyacrylamide Gels. Gary R. Petersen and James L. Van Etten. Analytic Biochemistry.
6933. Intelligent Interfacing of Micro and Mainframe Computers for Agricultural Applications. G. E. Meyer, T. L. Thompson, M. T. Hunzeker and N. W. Sullivan. Simulation (Simulation Councils, Inc.)
6934. Day Degree Methods for Pest Management. Kenneth P. Pruess. Environmental Entomology.
6935. Stepping into Disabled Person's Shoes -- or Wheelchair. Lois O. Schwab. Illinois Teacher.
6936. Kentucky Bluegrass Cultivars and Blend Injury Response to Bluegrass Billbug Larval Density. R. C. Shearman, D. M. Bishop, D. H. Steinegger and A. H. Bruneau. HortScience.
6937. Water Relations of Different Mycorrhizal Cottonwood Clones. Mark D. Coleman, James R. Brandle and William R. Lovett. Proceedings of the 7th North American Forest Biology Workshop.
6938. New Records for the Distribution of the Common Shiner (Notropis cornutus) and the Bluntnose Minnow (Pimephales notatus) in the Little Blue River System in Nebraska. Edward J. Peters. American Midland Naturalist.
6939. Status of Biotype-E Greenbugs in Kansas, Nebraska, Oklahoma and Northern Texas. S. M. Spomer, T. L. Harvey, R. L. Burton and K. J. Starks. Journal of Kansas Entomological Society.
6940. Government Response to Drought in the United States: With Particular Reference to the Great Plains. Donald A. Wilhite. Journal of Climate and Applied Meteorology.
6941. Thatch Accumulation in Kentucky Bluegrass Cultivars and Blends. R. C. Shearman, A. H. Bruneau, E. J. Kinbacher and T. P. Riordan. HortScience.
6942. The Effect of Feeding Streptococcus faecium Upon Escherichia coli induced Diarrhea in Gnotobiotic Pigs. Norman R. Underdahl. Nutrition Research.
6943. Nurturing the Novice Teacher. Connie J. Ley and Melinda Holcombe. Journal of Vocational Home Economics Education.
6944. Laundry Factors Influencing MeP Removal from Contaminated Denim Fabric. C. B. Easley, J. M. Laughlin, R. E. Gold and R. M. Hill. Bulletin of Environmental Contamination and Toxicology.

6945. The Effects of Body Composition on Fasting Heat Production in Young Pigs. M. W. Tess, G. E. Dickerson, J. A. Nienaber and C. L. Ferrell. Journal of Animal Science.
6946. Serological survey for Bordetella bronchiseptica in Nebraska Specific Pathogen Free (SPF) Pigs. B. V. Shashidhar, N. R. Underdahl. American Journal of Veterinary Research.
6947. Effect of Cycling Temperatures on Aflatoxin Production by Aspergillus parasiticus and Aspergillus flavus in Rice and Cheddar Cheese. Kun-Young Park and Lloyd B. Bullerman. Journal of Food Science.
6948. Role of the Meteorologist and Climatologist in Improving Food Production Capabilities in the Semi-Arid Regions. Norman J. Rosenberg. Proceedings of ICRISAT-WMO Symposium Planning Meeting on the Agrometeorology of Sorghum and Millet in the Semi-Arid Tropics.
6949. Effect of Method and Rate of Materials for Reducing Soybean Chlorosis Grown on High pH Soils. Dr. Richard A. Wiese. Proceeding of International Iron Nutrition Symposium, Provo, Utah.

Abstracts - Submitted for Publication (contact authors for more information)

- 82-1781. Effects of Ammonium/Nitrate Ratios on Mineral Element Uptake by Sorghum. L. M. Bernardo, R. B. Clark and J. W. Maranville. American Society of Agronomy, Anaheim, Ca.
- 82-1782. Effect of Nitrate/Ammonium Ratios of Nutrient Solution pH, Nitrate Uptake, and Dry-Matter Yields of Sorghum. L. M. Bernardo, R. B. Clark and J. W. Maranville. American Society of Agronomy, Anaheim, Ca.
- 82-1783. Temperature Interrelationships Between Ground and Below-grade Structures. H. O. Werner, R. B. O'Keefe and Gerald Bodman. Agricultural Engineering.

Calendar of Events - Summer, 1982

<u>Day and Date</u>	<u>Time</u>	<u>Event and Place</u>
Tuesday, August 17th	all day	7th Annual Nebraska Turfgrass Field Day and Equipment Show, University Field Laboratory at Mead, Nebraska
Tuesday, August 24th	all day	Northeast Station 25th Anniversary Field Day - Concord, NE
Wednesday, August 25th	all day	Alternate Cropping Systems (organic) Field Day & Farm Tour, will tour the Northeast Station and area farms
Wednesday, August 25th	all day	Rocky Mountain Bean Dealers Association - will visit bean research plots at Scotts Bluff Ag. Lab
Friday, August 27th	9:00-4:00	S.E. NE Fruit Growers Field Day & Tour - Meet at Horticulture Garden area; tour fruit & nut plantings & trickle irrigation system at UNL-East Campus; Swanson's Apple Farm at Hickman, NE; and Berry Farm in Roca, Nebraska
Friday, August 27th	all day	Millet and Sorghum Field Day at the High Plains Ag. Lab in Sidney, Nebraska
Friday through Sunday September 3 - 12th	all day	The Nebraska State Fair - Fairgrounds, Lincoln, Nebraska
Thursday, September 9th	all day	Agronomy Field Day - University Field Laboratory, Mead, NE
Tuesday - Thursday September 14-16	all day	Husker Harvest Days - Grand Island, Nebraska
Friday, September 17th	1:30-6:30	Beef Research Field Day at University Field Laboratory, Mead, NE
Saturday - Sunday September 25 - 26	all day	Forestry Field Days - Horning Farm, 2 miles south of Plattsmouth, NE