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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. 13, No.1, July 1979

SEARCH AND SCREENING COMMITTEE PROGRESS REPORT

The organizational meeting of the Search and Screening Committee for the position of Dean and Director of the Nebraska Agricultural Experiment Station was held on April 24, 1979. Dr. Will Schutz was elected chairman of the committee and Dean T. E. Hartung was elected secretary. Other members of the committee are John Campbell, R. G. Gast, Eugene Glock, Joan Laughlin, Daryl Loeppke, Jack Maddux, Leon Rottmann, Charles Stonecipher, Ray Supalla, Anne Vidaver, Mark Walton, Darrell Watts and Dwane Zimmerman. Vice Chancellor Massengale has asked the committee to submit to him a list of approximately five candidates with at least one or two persons from within IANR and an equal number or more from outside the University of Nebraska.

The committee developed a detailed job description for the position and advertised it extensively both locally and nationally. The deadline for receiving nominations and applications was June 1, 1979. A total of 70 nominations and applications was received with many good suggestions coming from IANR staff.

The committee is currently conducting a preliminary screening of the candidates and hopes to complete the work of developing a final list for submission to Vice Chancellor Massengale in August.

W. M. Schutz
Chairman
Search and Screening Committee

PERSONNEL ACTIONS

Mather, Ben F. - Assoc. Professor - Animal Science - Resignation to Univ. of Florida
Power, James F. - Professor - Agronomy - Courtesy Appointment
Swoboda, Donald W. - Assoc. Dean & Assoc. Dir. Coop. Ext. Serv. - New Appointment
White, Gene - District Director - NP Station - Resignation to Mississippi State

GRANTS & CONTRACTS

Bodman, Gerald R. - Ag. Engineering - USDA/SEA/AR	\$ 38,830
Compton, William A. - Agronomy - The DeKalb Ag Research Foundation	2,000
Dillon, Roy D. - Ag. Educ. - Nebr. Adv. Council for Voc. Education	2,500
Fenster, Charles A. - Agronomy - (PH Station) - USDA/SEA/AR	64,500
Frey, Merwin L. - Vet. Science - Schering Corporation	600
Gold, Roger E. - Environmental Programs - Nebr. Game & Parks Commission	5,550
Handel, A. Philip - Food Science - Nebr. Corn Dev., Util. & Mktg Board	7,400
Kies, Constance - Human Nutr. & Food Serv. Mgmt. - Ross Laboratories	1,650
Lane, Leslie C. - Plant Pathology - Nebr. Corn Dev., Util. & Mktg Board	12,638
Maranville, Jerry - Agronomy - Battelle Columbus Laboratories	46,000
Martin, Alex R. - Agronomy - Nebr. Corn Dev., Util. & Mktg Company	13,120
Moomaw, Russel S. - Agronomy - (NE Station) - Dow Chemical Company	1,000
Olson, Robert A. - Agronomy - USDA/SEA/AR	64,500
Peters, Leroy L. - Entomology - (SC Station) - FMC Corporation	500
Roeth, Fred W. - Agronomy - (SC Station) - Monsanto Company	1,000
Roeth, Fred W. - Agronomy - (SC Station) - Chevron Chemical	1,250
Shearman, Robert C. - Horticulture - Diamond Shamrock Corporation	1,000
Van Etten, J. L. - Plant Pathology - USDA/SEA/AR	47,300
Watkins, John & Ben Doupnik - Plant Pathology - Chemagro	600

GENERAL NOTES

1. Field days coming up:

North Platte Station	July 24
Tractor Power and Safety Day (Field Lab.)	July 26
Panhandle Station	August 2
South Central Station	August 16
Northeast Station	August 28

2. Mrs. Heloisa Scholl is the new secretary in the AES office working with grants, contracts and other matters related to the Associate Director's duty.

3. The Agency for International Development (AID) has after ten months of frustrating delays in processing, developed and approved the large Title XII International Sorghum/Millet Collaborative Research Support Program (INTSORLET CRSP) grant of \$14.5 million for the first five years. Now the process of approval and activation is up to Nebraska. There are eight major land grant institutions which will be participating but the University of Nebraska, IANR as the "management entity" will be the "grantee". Dr. Earl Leng will be the Program Director and the program office will be in the Plant Pathology department area on the fourth floor of the Plant Sciences Building.

4. Sahs Sez: That recent rains are causing weeds to grow well. Please try to keep them down in all our fields and operations areas.

5. Schnieder on safety: Don't let the gasoline supply problem tempt you to endanger yourself and others by carrying gasoline in containers inside your vehicle or in the trunk of your car. Have a safe and enjoyable vacation.

R. W. Kleis

NEBRASKA AGRICULTURAL EXPERIMENT STATION PUBLICATIONS - June 1979

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

5705. Electronic Moisture Sensor for Maintaining Herbicide Solution on a Roller Applicator. J. S. Schepers and O. C. Burnside. Weed Science.
5706. A Replicated Comparison of *S₁ per se* vs. Reciprocal Full-sib Index Selection in Corn (*Zea mays* L.): 1. Indirect Response to Population Densities. D. R. West, W. A. Compton and M. A. Thomas. Crop Science.
5707. Computer Programming Technique for Selection of Process Conditions for Optimum Color Development in Potato Chips. F. E. Brandt, R. G. Arnold, R. B. O'Keefe and J. G. Kendrick. Journal of Food Science.
5708. Effects of Greenbugs, *Schizaphis graminum* (Romani) on Grain Sorghum Under Great Drought Stress. S. D. Kindler and R. Staples. Journal of Environmental Entomology.
5709. Nutrition Knowledge, Attitudes and Concerns of Food Cooperative Shoppers. Hazel Fox and Kathleen Ehlers. Journal of Nutrition Education.
5710. Design for Year-Round Irrigation of Municipal Sewage Effluent. Gerald R. Bodman and Earl A. Myers. Transactions of the ASAE.
5711. Weed Watch. M. K. McCarty. Weeds Today.
5712. Photosynthetic Carbon Metabolism in C₄ Plants and C₃-C₄ Intermediate Species - A Review. C. K. M. Rathnam and Raymond Chollet. Phytochemistry.
5713. The Effects of Smokehouse Humidity on Cooked Bologna Characteristics and Energy Loss. D. K. O'Connell, R. W. Mandigo and D. G. Olson. Journal of Food Science.
5714. Determination of Surface Temperature of Food: Implications of Holding Hot Food. Lois E. Jensen (Marie E. Knickrehm). Journal of the American Dietetic Assn.
5715. Plasma Thyroxine and Triiodothyronine Concentrations at Sexual Maturity in Pullets. Y. Arima and F. B. Mather. Poultry Science.
5716. Plasma Concentrations of Thyroxine and Triiodothyronine in Laying Hens in Relation to Time of Day and Ovulation. Y. Arima and F. B. Mather. Poultry Science.
5717. Feeding Value of Drought Damaged Corn Silage for Growing Cattle. Vernon Krause, Terry Klopfenstein, P. Q. Guyer and Walter Tolman. Journal of Animal Science.
5718. Substitution of Peat Moss with Alfalfa Hay and Wheat Straw in a Potting Mixture Containing Soil. S. S. Salac, E. E. Pierson, W. R. Kehr and R. C. Sorensen. Journal of the American Society for Horticultural Science.
5719. Control of Hemp Dogbane with Foliar and Soil Applied Herbicides. M. E. Schultz and O. C. Burnside. Weed Science.
5720. Absorption, Translocation, and Metabolism of 2,4-D and Glyphosate in Hemp Dogbane. M. E. Schultz and O. C. Burnside. Weed Science.

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

- 79-1196. **Processing Factors Influencing Binding of Meat Pieces into Restructured, Fresh Beef Steaks.** A. Booren, K. W. Jones, R. W. Mandigo and D. G. Olson. **Journal of Animal Science.**
- 79-1197. **Effects of Zeranol Implants on Primigravid Heifers.** R. V. Anthony, E. F. Ellington, R. J. Kittok, E. J. Duppong and M. K. Nielsen. **American Society of Animal Science.**
- 79-1198. **Selection of Ovulation Rate in Swine: Embryo Survival and Litter Size Differences in Crosses of the Select and Control Lines with Three Other Breeds.** Dwane R. Zimmerman, R. Geisert, Y. Ogata, R. Pumfrey, P. J. Cunningham and R. Johnson. **American Journal of Animal Science.**
- 79-1199. **Selection for Increased Rate or Efficiency of Lean Growth in Rats: Correlated Responses in Reproductive Performance.** R. D. Allrich, C. T. Wang, G. E. Dickerson and Dwane R. Zimmerman. **Journal of Animal Science.**
- 79-1200. **Effect of Tallow and Choline Chloride Supplementation Prior to Parturition and During Lactation on Pig Survival and Growth.** R. D. Boyd, B. D. Moser, E. R. Peo, Jr. and A. J. Lewis. **American Journal of Animal Science.**
- 79-1201. **The Relationship Among Various Bone Parameters, Daily Gain and Soundness in Swine.** B. D. Moser, T. D. Crenshaw, E. R. Peo, Jr., A. J. Lewis, R. K. Johnson and J. Phillips. **American Journal of Animal Science.**
- 79-1202. **Selection of Ovulation Rate in Swine: Line Comparison of LH and Estradiol Responses to PMSG.** J. Ogata, R. Kinsey, R. Geisert, R. J. Kittok, P. J. Cunningham and Dwane R. Zimmerman. **American Journal of Animal Science.**
- 79-1203. **Effect of *Lactobacillus acidophilus* in the Gastrointestinal Tract of Gnotobiotic Pigs.** D. S. Pollmann, W. B. Wren, D. M. Danielson and E. R. Peo, Jr. **American Journal of Animal Science.**
- 79-1204. **Influence of Age, Sex and Ca/P Levels on Various Bones in Swine.** T. D. Crenshaw, E. R. Peo, Jr., A. J. Lewis, B. D. Moser and R. K. Johnson. **American Journal of Animal Science.**
- 79-1205. **Lysine Requirement of Weanling Pigs Fed Diets With and Without Added Fat.** A. J. Lewis, E. R. Peo, Jr., B. D. Moser and T. D. Crenshaw. **American Journal of Animal Science.**
- 79-1206. **Improving Switchgrass, *Panicum virgatum*, as a Forage Crop.** K. P. Vogel, F. A. Haskins and H. J. Gorz. **Proc. 25th Grass Breeders Work Planning Conf.**
- 79-1207. **Effect of Different Proteases on Whey Proteins.** I. A. Angelo, K. M. Shahani and A. Kilara. **Journal of Food Science.**
- 79-1208. **Regeneration of an Immobilized Lactase System and Its Application to the Dairy Industry.** V. K. Joshi, B. A. Friend, F. W. Wagner and K. M. Shahani. **Journal of Dairy Science.**
- 79-1209. **Antitumor Properties of Yogurt Fractions on Ehrlich ascites Tumor.** A. D. Ayebo, K. M. Shahani, R. Dam and A. Torres-Medina. **Journal of Dairy Science.**