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## Agricultural Experiment Station News October 1979

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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.4, October 1979

## FROM THE DIRECTOR'S DESK

Perhaps you have wondered about whether staff have personal liability coverage. We do. The University policy covers up to \$1 million on any one incident, or up to \$1 million per year for any one person, with the total umbrella policy amounting to \$10 million. The policy includes a deductible component of \$500,000, which the University covers through a local trust arrangement.

With respect to University vehicles our insurance coverage amounts to \$250,000 for injury or death of one person, a limit of \$500,000 coverage per accident, \$100,000 of property damage. The University umbrella policy described above also covers use of University vehicles.

We shall be glad to answer any questions which you may have (or seek the answers we don't have!)

\* \* \* \*

The first candidates for Director of the Nebraska Station are now scheduled to visit the campus. Dr. R. J. Sauer, Head of the Department of Entomology at Kansas State University, will be here on October 23-25. Dr. V. W. Hays, Chairman of Animal Science at the University of Kentucky, will be here on November 7-9. Busy schedules have been planned for both.

Howard W. Ottoson

## PERSONNEL ACTION

Brumm, Michael C. - Distr.Ext. Swine Spec. & Asst.Prof. - NE Station - New appointment  
Daly, Ronald T. - Ext.Spec. - Human Dev. & Family - Resignation to USDA/SEA  
Hahn, G. LeRoy - Prof. Biometeorology - Center for Ag Met & Climat. - Courtesy appoint.  
Norman, John - Prof. Ag Meteorology - Center for Ag Met & Climat. - Courtesy appointment  
Stroup, Walter W. - Asst. Prof. - Biometrics & Inf. Sys.Center - New appointment  
Svec, Leroy S. - Distr.Ext. Agronomist - SC Station - Resignation to Asgrow Seed Co.

## GRANTS & CONTRACTS

Britton, R. A. - Animal Science - USDA/SEA	\$ 35,000
Burnside, O. C. - Agronomy - Miscellaneous Donors	3,200
Fenster, C. R. - Agronomy - (PH Station) - Mobay	1,300
Fishbach, Splinter & Thompson - Ag Engineering - MIT Lincoln Lab.	123,085
Francis, C. A. & L. A. Nelson - Agronomy - Anna Elliot Fund	10,000
Frey, M. L. - Veterinary Science - USDA/SEA	121,835
Gardner, C. O. - Agronomy - Pioneer Hi-Bred Intl., Inc.	6,000
Gilley, J. R. - Ag Engineering - USDA/SEA	63,000
Holtzer, T. O. - Entomology - USDA/SEA	50,000
Krause, V. E. - Animal Science - (NE Station) - Cadco Inc.	5,300
Lane, L. C. - Plant Pathology - USDA/SEA	125,800
Mandigo, R. W. - Animal Science - Nebraska Pork Producers Assoc.	6,000
Mayo, Z. B. - Entomology - Miscellaneous Donors	26,000
Moomaw, R. S. - Agronomy - (NE Station) - American Cyanamid	850
Partridge, J. E. - Plant Pathology - USDA/SEA	45,426
Peters, L. L. - Entomology - (SC Station) - Miscellaneous Donors	1,000
Rhodes, M. B. - Veterinary Sciences - Miscellaneous Donors	752
Roeth, F. W. - Agronomy - (SC Station) - American Cyanamid	900
Rosenberg, N. J. & S. B. Verma - Ag Engineering - Natl. Science Found.	64,768
Salac, S. S. - Horticulture - Univ. of Nebraska Foundation	10,000
Satterlee, L. D. - Food Sci. & Tech. - National Science Foundation	72,329
Schulte, D. D. - Ag Engineering - U.S. Dept. of Energy	36,274
Underdahl, N. R. - Veterinary Science - Philips Roxane Labs.	4,000
Vidaver, A. M. K. - Plant Pathology - Potash & Phosphate Institute	3,000
Weiss, A. - Ag Meteorology - (PH Station) - Lindsay Manufacturing	5,000
Wilson, R. G. - Agronomy - (PH Station) - Miscellaneous Donors	1,850
Witkowski, J. F. - Entomology - (NE Station) - Miscellaneous Donors	1,000

## GENERAL NOTES

1. The 1980 biennial IANR Staff Conference is scheduled for January 8-10. The program will be coming to you about December 1. In the meantime, please protect these dates for attendance and participation.
2. During August, \$7,036,000 in gifts, grants and contracts were processed into UNL programs. Over \$6,000,000 or 85% were with units of the IANR. We always have a substantial portion of such monthly figures but this is something of a record. Congratulations to the many IANR staff involved.
3. Annual Staff Activity Reports will be coming soon. Please be reminded that these are important and used and that they should be completed to represent your year's effort and accomplishments.
4. Harvesting, Halloween and hunting seasons each involve needs for special safety precautions. Please be careful and influence others to do likewise. Substantial portions of the Field Laboratory will again be open to hunting.
5. The National Directory of Professional Workers in Agricultural Experiment Stations and other Cooperating State Institutions has been distributed to the general offices of all IANR administrative units. This is an excellent reference for names, titles, phone numbers and other information of individuals and institutions.
6. "Science is organized knowledge - Wisdom is organized life", Immanuel Kant

R. W. Kleis

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

5753. The Face Fly, *Musca autumnalis* DeGeer: Ability to Transmit Pinkeye Pathogens. Jack I. Shugart, J. B. Campbell, D. B. Hudson, R. Gene White and D. C. Clanton. *Journal of Economic Entomology*.
5754. Management of Solar and Low-Temperature Grain Drying Systems - Part I: Minimum Airflow Rates: Supplemental Heat and Fan Operation Strategies with Full Bin. R. O. Pierce and T. L. Thompson. *Transactions of the ASAE*.
5755. Management of Solar and Low-Temperature Grain Drying Systems - Part II: Layer Drying and Solution to the Overdrying Problem. R. O. Pierce and T. L. Thompson. *Transactions of the ASAE*.
5756. Post-Mortem Invasion of Muscle Food by a Proteolytic Bacterium. A. Sikes and R. B. Maxcy. *Journal of Food Science*.
5757. Scanning Electron Microscopical Observations of Rumen Bacterial Attachment to and Degradation of Brome Grass (*Bromus Inermis*). M. A. Rasmussen and S. D. Farlin. *Journal of Animal Science*.
5758. Effect of Growth Regulators on Absorption and Distribution of Dicamba in Canada Thistle (*Cirsium arvense* (L.) Scop.). M. R. Baradari, L. C. Haderlie and R. G. Wilson. *Weed Science*.
5759. Plant Pathogen Contamination in Reused Irrigation Waste Water. James R. Steadman, Rick W. Bay and Mark J. Hammer. *Proceedings of American Water Works Association*.
5760. Isotope Studies on Soil and Fertilizer Nitrogen. R. A. Olson. *Symposium Proc. of the International Atomic Energy Agency*.
5761. Cyanogenesis in Indiangrass Seedlings. F. A. Haskins, H. J. Gorz and K. P. Vogel. *Crop Science Journal*.
5762. Ecofallow ( A Reduced Tillage System) and Plant Diseases. Ben Doupnik, Jr. and M. G. Boosalis. *Plant Disease Reporter*.
5763. Turfgrass-Paver Complex for Intensively Trafficked Areas. R. C. Shearman, E. J. Kinbacher and T. P. Riordan. *Agronomy Journal*.
5764. Control of Weeds in an Oats (*Avena sativa*) Soybean (*Glycine max*) Ecofarming Rotation. O. C. Burnside, G. A. Wicks and D. R. Carlson. *Weed Science Journal*.
5765. Influence of Applied N and Moisture Level on Yield, Depth of Root Activity, and Nutrient Uptake by Soybeans. Bashir Al-Ithawi, E. J. Deibert and R. A. Olson. *Agronomy Journal*.
5766. Some Measures of Temperature Response and Drought Stress in Corn (*Zea Mays* (L.)). G. H. Semuguruka, W. A. Compton and C. Y. Sullivan. *Crop Science Journal*.
5767. Glutaraldehyde Non-fixation of Isolated Viral and Yeast RNA's. Willem G. Langenberg. *Journal of Histochemistry & Cytochemistry*.

(over)

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

- 79-1237. Effects of Trace Element Deficiencies and Excesses on Mineral Nutrients in Sorghum. R. B. Clark, P. A. Pier, D. Knudsen and J. W. Maranville. Proceeding of Symposium on Trace Element Stresses in Plants.
- 79-1238. Influence of Sorbic Acid on Viability and ATP Content of Conidia of *Aspergillus parasiticus*. K. S. Przybylski and L. B. Bullerman. Presented at the 39th Annual Meeting of the Institute of Food Technologists, St. Louis, Mo., June 10-13.
- 79-1239. Effects of Potassium Sorbate on Mycotoxin Production and Growth of *Aspergillus parasiticus*, *Penicillium commune* and *Penicillium Patulum* in Broth Substrates. L. B. Bullerman. 39th Annual Meeting of the Institute of Food Technologists, St. Louis, Mo., June 10-13.
- 79-1240. An Exploratory Study Determining Design Characteristics of Women's Bifurcated Garments. Nancy Jean Sintek and Joan Laughlin. AHEA Research Abstracts.
- 79-1241. Potential of Milk Yield in Short Early Lactation Segments as a Covariate in Feeding Experiments. S. R. Lowry, F. G. Owen and M. K. Nielsen. Journal of Dairy Science.
- 79-1242. Nitrogen Fixation Associated with Winter Wheat, Sorghum and Kentucky Bluegrass. R. V. Klucas, W. Pedersen, R. C. Shearman and L. V. Wood. International Workshop on Associative N<sub>2</sub>-Fixation.
- 79-1243. Superoxide Dismutases in Soybean Nodules. Cecilia Stood and Robert V. Klucas. Regional American Chemical Society Meeting.
- 79-1244. Laboratory and Field Selection in Relation to Genetic Shifts in Alfalfa Populations. J. A. Rodriguez, W. R. Kehr, J. H. Elgin, Jr., S. A. Ostazeski and G. R. Manglitz. Proceedings of the 16th Central Alfalfa Improvement Conference, St. Paul, Minn.
- 79-1245. A Study of Isolation Requirements in Alfalfa Seed Fields Pollinated by Honeybees *Apis mellifera* L.: Spotted Alfalfa Aphid Resistance in Seed Lots from Adjacent Susceptible and Resistant Varieties. Vern L. Marble, W. R. Kehr, O. D. McCutcheon, W. R. Sheesley and G. R. Manglitz. Proceedings 16th Central Alfalfa Improvement Conference, St. Paul, Minn., September 11-12, 1979.
- 79-1246. Research in Great Plains Drought Management Strategies: A Workshop. Donald A. Wilhite, Norman J. Rosenberg, Richard O. Hoffman and Mary-Louis Quinn. Presented at the American Water Resources Association Conference, Minneapolis, Minn., September, 1979.
- 79-1247. Response of Canada thistle (*Cirsium arvense* (L.) Scop.) to Nitrogen. R. H. Hoefer and L. C. Haderlie. 1980 WSSA Annual Meeting.
- 79-1248. Glyphosate Uptake by Roots. L. C. Haderlie. 1980 WSSA Annual Meeting.
- 79-1249. Flodman Thistle (*Cirsium flodmanii* (Rydb.) Arthur) Germination, Seedling Development, and Control. R. G. Wilson and M. K. McCarty. 1980 Meeting Weed Science Society of America.