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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. 7, No. 3, September 1974

FROM THE DIRECTOR'S DESK

A new department! At its September 7 meeting, the University Board of Regents took an important action relating to our programs--the creation of a new Department of Forestry. Administratively this involves separating out the extension, action, research and teaching activities in Forestry from the Department of Horticulture and Forestry. This department will be headed by a chairman who will also be the State Forester.

This new department will have several implications; it will give greater visibility to forestry activities in the Institute. We would expect that over the course of time the coordination between research and teaching activities on the one hand, and extension and action programs on the other may be increased by this change. The Federal forestry research program on the campus will represent in fact a very important component of this new department.

Forestry research nationally is in a state of evolution presently, with much examination of priorities and new areas, such as environmental problems and urban problems relating to woody plants. We expect the new department to be the locus of such consideration in the Experiment Station.

Howard W. Ottoson

THE LABORATORY OF AGRICULTURAL BIOCHEMISTRY

This newly structured unit has completed one year of operation, and the staff feels that the split appointments with biochemical research in the Experiment Station and teaching in the School of Life Sciences are working well. In the reorganization process the role a biochemical unit should perform in an agricultural experiment station was reexamined and several points reaffirm the faculty's philosophy.

First, there is a need for providing analytical service to other research units and the Laboratory plans to offer a greater selection of analyses through instrumentation and developing new methods for which routine procedures are not available. When analytical problems exist the Laboratory is willing to help solve them.

Second, the participation of biochemists in team or cooperative research programs that cross departmental lines is important in solving agricultural problems.

Third, the need for basic biochemical research on organisms involved in agricultural production has never been greater. The biochemistry of humans and small experiment animals is known much better than the biochemistry of large farm animals and, especially, the biochemistry of plants. Biochemical knowledge of the organisms upon which agriculture is based, is becoming increasingly important to advancing agricultural technology. The responsibility for generating this knowledge appears to rest with the USDA and this country's Experiment Stations.

H. W. Knoche

PERSONNEL ACTIONS

Francis, Charles W. - Associate Professor of Veterinary Science (new appointment)
 Lewis, David T. - Asst. Prof. of Agron., additional assignment as Vice Chm. for Res.
 Moline, Waldemar J. - Prof. of Agron., additional assignment as Vice Chm. for Ext.
 Mozer, Lowell E. - Assoc. Prof. of Agron., additional assignment as Vice Chm. for Instr
 Teter, Norman C. - Assoc. Prof. of Agr'l Eng'g, 3 months leave of absence without pay
 Schuster, Max L. - from Prof. of Plant Path. to Prof. of Hort. and Forestry (transfer)

GRANTS AND CONTRACTS

Ball, H. J. - Entomology - Chevron Chemical Company	\$ 500 ✓
Ball, H. J. - Entomology - American Cyanamid Company	600 ✓
Bashford, Leonard L., Agricultural Engineering - NSF	24,700
Burnside, Orvin C. - Agronomy - American Cyanamid Company	500 ✓
Burnside, Orvin C. - Agronomy - Mobil Chemical Company	750 ✓
Burnside, Orvin C. - Agronomy - 3M	500 ✓
Burnside, Orvin C. - Agronomy - Amchem Products Incorporated	750 ✓
Coyne, Dermot - Horticulture and Forestry - Bean Companies	1,300
Cunningham, Peter J. - Animal Science - ARS, USDA	4,000
Cunningham, Peter J. - Animal Science - Waldo Farms	500
Fenster, C. R. - Agronomy (PH Sta.) - Chemagro	500 ✓
Fenster, C. R. - Agronomy (PH Sta.) - Shell Oil Company	1,000 ✓
Fenster, C. R. - Agronomy (PH Sta.) - Chevron Chemical Company	1,000 ✓
Hagen, Arthur F. - Entomology (PH Sta.) - Union Carbide Corporation	1,500 ✓
Kinbacher, E. J. - Horticulture and Forestry - Nebraska Turf Grass Council	1,025
Klopfenstein, Terry - Animal Science - Farmland Industries	3,500
Mayo, Z. B. - Entomology - American Cyanamid Company	1,750 ✓
Moomaw, Russell S. - Agronomy (NE Sta.) - Eli Lilly and Company	500 ✓
Palmer, Louis T. - Plant Pathology - Rohm and Haas Company	500
Peters, Leroy L. - Entomology (SC Sta.) - FMC Corporation	500 ✓

GENERAL NOTES

1. Dr. Oliver Wendell Holmes has been appointed to replace John Muehlbeier who is retiring as Executive Secretary of the Great Plains Council. We welcome Wendell to our campus and wish John well in his retirement.
2. Dr. Patricia Sailor has been designated Assistant Director of the Agricultural Experiment Station. In this portion of her duty, she will serve with the Director's staff on matters relating to Home Economics research. She will function particularly in Home Economics research planning and coordination.
3. Schnieder on safety - "Horseplay" is the cause of many accidents. It is so listed in many accident claims. Let's use "horse sense" about "horseplay" and influence others to do the same.
4. We omitted Dr. Lois Schwab and Mabel Skjelver from the list of graduate staff status promotions in the last letter.
5. Sahs sez - It is the time to thump the watermelons and pumpkins, and order seed corn, machinery, fertilizer and herbicides for 1975. Spray bindweed and musk thistle patches in the next 30 days.

R. W. Kleis

Journal Articles (contact authors for more information)

3847. A New Species of Caloglyphus (Acarina: Acaridae) Associated with Phyllophaga Anxia (Coleoptera: Scarabaeidae). Christian Y. Oseto and Z. B. Mayo. Journal of Kansas Entomological Society.
3848. Genetic Variation, Maintenance, and Recovery of Virulence in Corynebacterium nebraskense. M. L. Schuster, Betty Hoff and W. A. Compton. Plant Disease Reporter.
3849. Energy Requirements for Minimum Tillage as Compared to Conventional Tillage. Howard Wittmuss, Larry Olson and Delbert Lane. Soil Conservation Journal.
3850. Evaluation of Traits in the U.S.D.A. Yield Grade Equation for Predicting Beef Carcass Cutability in Breed Groups Differing in Growth. John D. Crouse, Michael E. Dikeman and Robert M. Koch. Journal of Animal Science.
3851. Application of Lipolytic Enzymes to Flavor Development in Dairy Products. R. G. Arnold, K. M. Shahani and B. K. Dwivedi. Journal of Dairy Science.
3852. Relationship Between Composition and Stability of Bovine Milk Lysozyme. R. R. Eitenmiller, Beverly A. Friend and K. M. Shahani. Journal of Dairy Science.
3853. Mapping Areas of Severe Wind Erosion in the Sandhills Region of Nebraska Using ERTS-1 Imagery. Paul M. Seevers, David T. Lewis and James V. Drew. Journal of Soil and Water Conservation Society.
3854. Is The Universal Testing Machine Doing What You Think Its Doing? Leonard L. Bashford. Journal of Agricultural Engineering - Instrument News.
3855. Biological Effects of D₂O Administration to Coturnix Japonica. Stanley P. Sutton, Richard Dam and Merlyn K. Nielsen. Life Sciences.
3856. Effects of Storage and Germination Conditions on the Germination of Four Species of Wild Flowers. S. S. Salac and M. C. Hesse. Journal of the American Society for Horticulture Science.
3857. A Low-Cost Shutoff Valve. L. N. Mielke and J. C. Lorimor. Agricultural Engineering - Instrument News.
3858. Nutritional Implications of Textured Protein Products. Constance Kies. Cereal Science Today.
3859. Detachment of Soil Aggregates by Simulated Rainfall from Heavily Manured Soils in Eastern Nebraska. A. P. Mazurak, A. Tiarks and Leon Chesnin. Waters Resources Research.
3860. Inhibition of Nitrite Reduction by Photosynthetic Inhibitors. Lowell Klepper. Weed Science.
3861. Clonal Growth of Bacteria. R. B. Maxcy. Journal of Food Science.

3862. Special District Government: The Case in Rural Nebraska. Robert D. Miewald. Midwest Review of Public Administration.
3863. Occurrence of Helminthosporium sorghicola and Other Minor Pathogens of Sorghum in Nebraska. Gary N. Odvody and Larry D. Dunkle. Plant Disease Reporter.

Journal Abstracts (contact authors for more information)

- 74-361. Inheritance of Resistance to Leaf Freckles and Wilt Disease of Corn. P. R. Martin, C. O. Gardner and A. G. Calub. CSSA Convention in November.
- 74-362. Seedling Growth of Three Switchgrass (Panicum virgatum L.) Strains. L. J. Perry and Lowell E. Moser. Agronomy Abstracts.
- 74-363. Effect of Environment and Sex on Porcine Live and Carcass Traits. T. E. Socha and P. J. Cunningham. Journal of Animal Science.
- 74-364. Prediction of Pork Quality Utilizing Biopsy Data. T. E. Socha and P. J. Cunningham. Journal of Animal Science.
- 74-365. Weight Gains and Pelvic Development in Implanted Beef Calves. K. R. Helm and E. F. Ellington. Journal of Animal Science.
- 74-367. Phony Pastrami and Fortified Cake; Nutritional Implications of Engineered Foods. Constance Kies. Proceedings, 1974 Annual Meeting of the American Dietetic Association.

BULLETINS PRINTED

- SB 532. Limiting Liability When Private Property is Used for Outdoor Recreation -- Volume II, Insurance Aspects. Maurice Baker, Ivan Schmedemann, Thor Hertsgaard, Willard Schutz and George E. Radosevich.
- SB 533. Harvesting Loose Hay. Leslie G. Carlow and Thomas L. Frey.
- OTC 161. Nebraska Alfalfa Variety Tests 1963-1973. A. F. Dreier, W. R. Kehr, R. S. Moomaw, F. N. Anderson and P. H. Grabouski.
- OTC 162. Nebraska Varietal Tests of Fall-Sown Small Grains 1974. A. F. Dreier, J. W. Schmidt, L. A. Nelson, G. M. Dornhoff, P. H. Grabouski and P. T. Nordquist.
- CC 264. Nebraska Natural Resources Districts. Ron J. Gaddis, Lee W. Orton and Deon D. Axthelm.