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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. 11, May 1975

EXPERIMENT STATION CENTENNIAL YEAR

This year, 1975, has been designated as the Experiment Station Centennial. This sounds incorrect in view of the passage of the Hatch Act in 1884. However, the Hatch Act was intended to provide Federal funding for state agricultural experiment stations; several state experiment stations had been started before that time.

As a matter of fact agricultural experiment stations had been started by the 1850's in Saxony, Germany, and provided the prototype for discussions about the idea in the United States. The first such station in the U.S. was established in Connecticut, in 1875. Other states followed the Connecticut example and by the time of the passage of the Hatch Act 15 state stations had been established. The Nebraska Station was established in about 1886.

Several activities have been planned to commemorate this centennial. The 1975 yearbook of the USDA will feature research work in the state agricultural experiment stations. A centennial film also featuring station research will be released about July 1. A centennial medal, which will be illustrated in the summer issue of the Quarterly, has been struck. Congressmen and Senators are being invited as guests of the experiment stations to a dinner at the 1975 meeting of the National Association of Land Grant Colleges and State Universities in November.

The experiment station idea seems as relevant today as it did to the pioneers whose efforts brought the first stations to reality a century ago.

Howard W. Ottoson

PROMOTIONS

Congratulations to those promoted in academic rank by recent action of the Board of Regents.

To Assistant Professor: J. R. Ellis, L. E. Stetson

To Associate Professor: W. T. Ahlschwede, F. N. Anderson, B. A. Boettcher, V. A. Book, L. B. Bullerman, R. M. Case, Ethel Diedrichsen, L. D. Dunkle, B. F. Hoadley, R. D. Johnson, S. D. Kindler, R. V. Klucas, D. B. Laster, D. T. Lewis, R. P. Lorah, A. R. Martin, L. A. Nelson, P. T. Nordquist, E. J. Penas, J. K. Poley, M. B. Rhodes, L. F. Sheffield, D. D. Siffring, J. R. Steadman, N. P. Swanson, D. W. Swoboda, D. G. Watts.

To Professor: M. B. Baker, D. R. Clouse, W. A. Compton, J. A. DeShazer, T. H. Doane, E. F. Ellington, D. L. Ferguson, M. R. Hall, G. A. Helmers, T. L. Lavy, L. E. Moser, R. F. Mumm, R. E. Neild, K. P. Pruess, W. W. Sahs, L. D. Satterlee, L. O. Schwab, M. C. Skjelver, B. R. Somerhalder, R. C. Sorensen, E. L. Stair, M. B. Stewart, C. Y. Sullivan, R. E. Sward, N. C. Teter, J. K. Ward, R. B. Warren, R. A. Wiese, R. D. Uhlinger.

Special congratulations to Vice Chancellor Acker on his promotion to President of Kansas State University. Unfortunately for us this action was by another governing board. We all regret our loss of this fine leader but we wish him well in his very important new role.

PERSONNEL ACTIONS

Antes, Wesley M. - Professor (Ag. Extension)/State Leader 4-H Emeritus (retirement)
 Brandle, James - Assistant Professor of Forestry (new appointment)
 Cady, R. E. - Research Hydrogeologist of Conservation and Survey (new appointment)
 Fitzhugh, Henry A., Jr. - Professor of Animal Science--USMARC (courtesy appointment)
 Gormly, James R. - Hydrochemist of Conservation and Survey (new appointment)

Kleis, Robert W. - Acting Director, Agricultural Experiment Station (June 15--)
 Ottoson, Howard W. - Acting Vice Chancellor, Institute of Agr'l and Natural Rscs. (June 15--
 Pederson, Darryll T. - Research Hydrologist of Conservation and Survey Div. (new appt.)
 Rottmann, Leon Harry - Assoc. Prof. (Extension-State Specialist) Human Dev. (new appt.)
 Sutton, Richard - Assistant Professor of Horticulture (new appointment)

GRANTS AND CONTRACTS

Burnside, O. C. - Agronomy - U. S. Borax Research	750
Burnside, O. C. - Agronomy - Rhodia Incorporated	750 ✓
Burnside, O. C. - Agronomy - American Hoechst Corporation	500 ✓
Campbell, J. B. - Entomology (NP Sta.) - USDA, ARS	1,000
Chesnin L. - Agronomy - LeDioyt Land Company	10,000
Clanton, D. C. - Ani. Sci. (NP Sta.) - E. I. DuPont DeNemours & Co.	4,000 ✓
Compton, W. A. - Agronomy - Miscellaneous Donors	1,150
Klopfenstein, T. J. - Animal Science - CPC International	6,000
Klopfenstein, T. J. - Animal Science - Distillers Feed Research Council	4,000
Larson, Larry L. - Animal Science - Mid American Dairymen, Inc.	683
Martin, Alex R. - Agronomy, Monsanto	500 ✓
Mayo, Z. B. - Entomology - E. I. DuPont DeNemours and Company	800 ✓
Moser, B. D. - Animal Science - Pfizer Agricultural Division	3,000
Peo, E. R. - Animal Science - Eli Lilly and Company	4,000 ✓
Peterson, G.; D. Sander & R. Olson - Agron. - Phillips Petroleum Co.	4,000 ✓
Sullivan, T. W. - Poultry and Wildlife Sciences - Occidental Chemical Co.	2,500 ✓
Twiehaus, M. J. - Veterinary Science - Miscellaneous Donors	615
White, R. & D. Danielson - Vet. Sci. and Ani. Sci. (NP Sta.) Merck & Co.	9,875
Wicks, G. A. - Agronomy (NP Sta.) - American Hoechst Corp.	500 ✓
Wicks, G. A. - Agronomy (NP Sta.) - NOR-AM Agr'l Pro.	500
Wicks, G. A. - Agronomy (North Platte Station) - Monsanto Company	1,000 ✓
Wiese, R. A. - Agronomy - U. S. Borax and Chemical Company	4,500 ✓

GENERAL NOTES

1. With the construction of the new Student Center, we will have much intensified parking stress. Dr. O'Keefe, as a member of the UNL parking committee, is chairing an ad hoc committee to formulate parking development recommendations for the East Campus and will be submitting a report in early June. He is willing to meet with departmental staff to discuss alternatives as their report evolves.
2. Sahs sez - If you haven't yet sprayed for musk thistle, do it soon. Use 1.5-2.0 lb. of 2, 4-D acid equivalent per acre. It is easier to spray them than to dig them out.
3. Agronomy and Animal Science have vacated the land and facilities on the north side of Adams Street. Agronomy has established a new limited operations base at 84th and Havelock. The 240 acres northwest of 84th and Havelock did not sell in the recent bid taking. It is still intended that this land will be sold in the future.
4. The second stage of construction of the new Veterinary Science facility (research building) has been bid within funds available.

R. W. Kleis

Journal Articles (contact authors for more information)

3971. A Comparison of the Development of Rust Fungi in Resistant and Susceptible Hosts Based on Glucosamine Content. S. Mayama, D. W. Rehfeld and J. M. Daly. *Physiological Plant Pathology*.
3972. Alfalfa Weevil: Late Season Adults in a Harvested and Unharvested Field. George R. Manglitz. *Journal of Kansas Entomological Society*.
3973. A New Complement-Fixation Test for the Human Reovirus-like Agent of Infantile Gastroenteritis Using the Nebraska Calf Diarrhea Virus as Antigen. Albert Z. Kapikian, W. Lee Cline, and C. A. Mebus, R. G. Wyatt, Anthony R. Kalica, H. D. James, Jr., Dale VanKirk, Robert M. Chanock and H. W. Kim. *Lancet*.
3974. Diarrhea in Gnotobiotic Piglets Caused by the Human Reovirus-like Agent of Infantile Gastroenteritis. Alfonso Torres-Medina, Richard G. Wyatt, Charles A. Mebus, Norman R. Underdahl and Albert Z. Kapikian. *Lancet*.
3975. Improved Crossflow Grain Dryer Design Using Simulation. Garland S. Stevens and Thomas L. Thompson. *Transactions of the ASAE*.
3976. Human Resource Utilization and Households. Barbara Kreutz. *Journal of Home Economics*.
3977. Bacillus subtilis Aminopeptidase: Effect of Cobalt Ions on the Native Enzyme Activity. Fred W. Wagner and Lee E. Ray. *Journal of Biological Chemistry*.
3978. Diagnosis of Atrophic Rhinitis in Swine. J. W. Dunn, R. E. Coupe, M. G. Daharsh, K. C. Olson, M. J. Twiehaus and N. R. Underdahl. *Journal of the American Veterinary Medical Association*.
3979. Reflectant Induced Modification of Soybean (Glycine max (L.) Merr.) Canopy Radiation Balance VI. Crop Growth, Yield and Water Use. Maximo W. Baradas and Norman J. Rosenberg. *Agronomy Journal*.
3980. Selectivity and Persistence of Certain Herbicides Used on Perennial Forage Grasses. L. A. Morrow and M. K. McCarty. *Journal of Weed Science*.
3981. Restructured Meat. Roger W. Mandigo. *Proceedings of 11th Meat Industry Research Conference*.
3982. Misdivision of an Agropyron Chromosome. D. C. Sharma, R. Morris and J. W. Schmidt. *Canadian Journal of Genetics and Cytology*.
3983. Patulin: A Mycotoxin of Potential Concern in Foods. W. T. Stott and L. B. Bullerman. *Journal of Milk and Food Technology*.
3984. Reflectant Induced Modification of Soybean (Glycine max (L.) Merr.) Canopy Radiation Balance. V. Longwave Radiation Balance. Maximo W. Baradas, Blaine L. Blad and Norman J. Rosenberg. *Agronomy Journal*.
3985. Reflectant Induced Modification of Soybean (Glycine max (L.) Merr.) Canopy Radiation Balance. IV. Leaf and Canopy Temperature. Maximo W. Baradas, Blaine L. Blad and Norman J. Rosenberg. *Agronomy Journal*.

Journal Abstracts (contact authors for more information)

- 75-421. Nutritional Value of Grain Sorghum Residues. L. J. Perry, Jr., D. H. Smith and G. Rehm. American Society of Animal Science Proceedings.
- 75-422. Non-Conventional Sources of Phosphorus for G-F Swine. E. R. Peo, Jr., T. Stahly, B. D. Moser and P. J. Cunningham. Journal of Animal Science.
- 75-423. Transmission Values as a Measure of Pork Quality. K. L. Neer and R. W. Mandigo. Journal of Animal Science.
- 75-424. Fat Additions to Normal and Opaque-2 Corn Diets for G-F Swine. B. D. Moser, E. R. Peo, Jr., T. Stahly and M. K. Nielsen. Journal of Animal Science.
- 75-425. Salt and Sodium Tripolyphosphate Effect on Storage on Restructured Pork. W. C. Schwartz and R. W. Mandigo. Journal of Animal Science.
- 75-426. Dehydrated Poultry Waste as a Nitrogen Source for Cattle. D. Lamm, L. E. Jones, D. C. Clanton and J. K. Ward. Journal of Animal Science.
- 75-427. Protein Supplementation of Cows and Heifers on Cornstalks. D. Lamm, J. Schmitz and J. K. Ward. Journal of Animal Science.
- 75-428. Antibiotic Effects on In Vitro Lactic Acid and VFA Levels. David K. Beede and Stanley D. Farlin. Journal of Animal Science.
- 75-429. Comparison of Two Rumen Sampling Methods in Subclinical Acidosis. David K. Beede, W. R. Fulton, Terry Klopfenstein and P. J. Cunningham. Journal of Animal Science.
- 75-430. Adjusting Lambs to High Concentrate Rations. Dan Colling, Robert Britton and Merlyn Nielsen. Journal of Animal Science.
- 75-431. Sodium Bentonite and N Utilization with SBM and Urea in Lambs. D. P. Colling and R. A. Britton. Journal of Animal Science.
- 75-432. Brewers Dried Grains in Ruminant Rations. Whitney Rounds and Terry Klopfenstein. Journal of Animal Science.
- 75-433. Hydroxides for Treating Crop Residues. John C. Waller and Terry Klopfenstein. Journal of Animal Science.
- 75-434. Processing and Chemical Treatment of Alfalfa Meal on Baby Pig Performance. C. L. Colling, E. R. Peo, Jr., T. Stahly, B. D. Moser, P. J. Cunningham, A. L. Livingston, R. E. Knowles and G. Kohler. Journal of Animal Science.
- 75-435. Effect of "Transport Phenomenon" Stimuli and Boar Exposures on Puberty in Gilts. Dwane R. Zimmerman, Phyllis Bourn, Dennis Donovan and Roy Carlson. Journal of Animal Science.
- 75-436. Puberty in Gilts as Influenced by Boar Exposure and "Transport Phenomenon." Phyllis Bourn, Roger Kinsey, Roy Carlson and Dwane R. Zimmerman. Journal of Animal Science.