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## Agricultural Experiment Station News April 1976

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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. 8, No. 10, April 1976

## FROM THE DIRECTOR'S DESK

It is good to be back in the Experiment Station! I wish to commend Bob, Warren, John, Wayne, Delores, Lorraine and Mary Ann for the effectual way in which they have carried on the operations here during the nine months of my absence.

### How is IANR Doing?

I have been asked by staff members as to "How IANR is working out?" or "How effective is IANR?" My conclusion, after my experience of the past nine months, is that it is probably more successful than I had anticipated, for several reasons:

1. The Institute has become a much more visible entity in the University, in the view of Central Administration, of the Regents, of state government, and in the minds of lay people than was the old College of Agriculture.
2. The title of Vice Chancellor for the chief executive officer creates a basis of informal contact and coordination with the other Vice Chancellors of UN-L, and with the Chancellor. This relaxed but highly important relationship is facilitated by the fact that the Vice Chancellor of the Institute has an office in UN-L administration and spends half of his time there. I believe that, although it has awkward aspects in terms of scheduling, the split office of the Vice Chancellor of IANR is absolutely essential.
3. In my observation, the Chancellor of UN-L, the President, and The Board of Regents have conscientiously honored the understandings under which IANR was created. Thus, the Vice Chancellor of IANR attends the meetings of the academic council which is convened by Vice President Sample and includes the Vice Chancellors of Academic Affairs at UN-L and UN-O, the Chancellor of the Medical Center, and the Vice Chancellor of IANR. He attends Regents meetings regularly, and speaks for the Institute on matters of Institute business as necessary.
4. The Vice Chancellor of IANR is recognized among the colleges outside of IANR, and by their deans, as the person appropriately charged with the coordination of agricultural and natural resources matters on the campus.

In summary, I regard the IANR experiment as highly successful since its initiation two years ago. I am confident that we will move forward under Vice Chancellor Massengale's leadership.

Howard W. Ottoson

I am pleased to have an opportunity via this Newsletter to extend greetings to all members of the Nebraska Agricultural Experiment Station. I have met several of you since my arrival in Lincoln, and I do look forward to becoming acquainted and working with all of you in the years ahead.

The future of Nebraska agriculture looks exciting. I know that many of you in your research programs will contribute new information which will make agriculture and natural resources in this state even more exciting than we can imagine at this time. We in the Agricultural Experiment Station and in Nebraska agriculture are limited largely by our imagination.

Martin A. Massengale

## PERSONNEL ACTIONS

Addink, John W. - Assistant Professor of Agr'l Engineering (Resignation)  
Linderman, Charles L. - Instructor of Agricultural Engineering--Courtesy Appt. (Resignation)  
Lowry, Stephen R. - Assistant Professor, Statistical Laboratory (Appointment)  
Ratcliffe, Brett C. - Assistant Professor of Entomology (Courtesy Appointment)

## GRANTS AND CONTRACTS

|  |          |
|--|----------|
| Burnside, O. C. - Agronomy - Monsanto  | \$ 1,000 |
| Clanton, D. C. - Animal Science (NP Sta.) - Custom Services                    | 3,000    |
| Clanton, D. C. - Animal Science (NP Sta.) - E. I. DuPont DeNemours & Co.       | 4,000    |
| Flowerday, A. D. - Agronomy - Dow Chemical Company                             | 1,500    |
| Frank, K. D. - Agronomy (SC Sta.) - Dow Chemical Company                       | 2,500    |
| Hibbs, C. M. - Veterinary Science (NP Sta.) - John R. Jiridon, Industries      | 1,500    |
| Mattern, P. J. - Agronomy - US AID   | 530,000  |
| Mayo, Z. B. - Entomology - Thompson Hayward Chemical Company                   | 500      |
|  |          |
| Peters, L. L. - Entomology (South Central Station) - Gulf Oil Corporation      | 1,000    |
| Roeth, F. W. - Agronomy (SC Sta.) - Dow Chemical Company                       | 500      |
| Roeth, F. W. - Agronomy (SC Sta.) - Monsanto Company                           | 500      |
| Shearman, R. C. - Horticulture - O. M. Scott & Sons                            | 500      |
| Shearman, R. C. - Horticulture - Golf Course Superintendents Assoc. of America | 500      |
| VanEtten, J. L. - Plant Pathology - DHEW NIH                                   | 19,174   |
| Wilson, R. G. - Agronomy (PH Sta.) - Shell Oil Company                         | 500      |
| Wilson, R. G. - Agronomy (PH Sta.) - Great Western Sugar Co.                   | 600      |

## GENERAL NOTES

1. Please be reminded of the reception for Dr. and Mrs. Massengale from 3:00-5:30 p.m. Thursday, April 22 in the Omaha room of the Nebraska Center. All faculty and spouses are invited.
2. Dean Ottoson and I plan to visit all departments and district stations during the next few weeks to discuss program development and concerns with station staff members. We have had several such visits recently and look forward to more of them shortly.
3. The 1967-77 state appropriations are increased very significantly over the current year for the University and particularly for the IANR. There are in addition to salary improvement provisions, numerous program strengthening components, construction funding for the South Central Station headquarters building and a substantial start on construction of the Plant Sciences complex. Construction of these facilities may well start by June 1.
4. The East Campus Student Center construction is proceeding well on schedule and the schedule calls for a completion date of November of this year.
5. Schnieder on safety - Hooded sweatshirts and other loose clothing may cut the chill of spring mornings but dangling strings, sleeves, hoods, etc., can be very dangerous around equipment. Clothing related machinery accidents add to the fatality tolls each year.
6. Publication activity by AES staff in 1975 was sustained at essentially the same good level as the previous year. The average for all staff was 1.4 journal article equivalents per FTE. Individual staff members outputs ranged from 0 to 7.9 journal article equivalents. Departmental averages ranged from 0 to 3.23.

R. W. Kleis

Journal Articles (contact authors for more information)

5060. Develop Your Own Mediated Career Information Using Students. Richard L. Douglass, Dale G. Zikmund, James T. Horner and Rosemary L. Horner. Audiovisual Instruction.
5061. Individualize In-Service Education. James T. Horner and Richard L. Douglass. Agricultural Education.
5062. Nutrition Knowledge and Attitudes of Grocery Store Managers. Polly Stansfield and Hazel Fox. Journal of Nutrition Education.
5063. Effects of Temperature on Nutrient Requirements of Meat Animals. N. C. Teter and J. A. DeShazer. Feed Composition, Nutrient Requirements and Computerization of Animal Diets.
5064. Registration of Dawn Proso Millet. Lenis A. Nelson. Crop Science.
5065. Anhydrous Ammonia Applications During Fallow for Winter Wheat Production. D. E. Smika and Philip H. Grabouski. Soil Science Proceedings.
5066. Absorption, Translocation and Breakdown of 2,4-D and Glyphosate in Common Milkweed and Hemp Dogbane. J. B. Wyrill, III and O. C. Burnside. Weed Science.
5067. Affinity Chromatographic Isolation of Milk Acid Phosphatase. Y. Kuzuya, F. W. Wagner, A. Kilara and K. M. Shahani. Milchwissenschaft.
5068. Evidence Concerning Genetic Improvement in Commercial Stocks of Layers. G. E. Dickerson and F. B. Mather. Journal of Poultry Science.
5069. Use of Microwave and Lower Frequency RF Energy for Improving Alfalfa Seed Germination. S. O. Nelson. The Journal of Microwave Power.
5070. Glyphosate Toxicity to Common Milkweed and Hemp Dogbane as Influenced by Surfactants. J. B. Wyrill and O. C. Burnside. Weed Science.
5071. Patterns of Shedding of Human and Reovirus-Like Agent in Gnotobiotic Newborn Piglets with Experimentally-Induced Diarrhea. Alfonso Torres-Medina, R. G. Wyatt, C. A. Mebus, N. R. Underdahl and A. Z. Kapikian. Intervirology.
5072. Differentiation of Human Calf Reovirus-Like Agents Associated with Diarrhea Using Polyacrylamide Gel Electrophoresis of RNA. A. R. Kalica, C. F. Garon, R. G. Wyatt, C. A. Mebus, D. H. VanKirk, R. M. Chanock and A. Z. Kapikian. Virology.
5073. Ascaris suum: Mechanism of Immunity in Swine I. Site of Hatching of Embryonated Eggs and Sites of Penetration of Second Stage Larvae. Marvin B. Rhodes, Rose A. McCullough, Charles A. Mebus, Carol A. Klucas, Donald L. Ferguson and Marvin J. Twiehaus. Experimental Parasitology.
5074. Survival of Plant Parasitic Bacteria of Tropical Plants with Emphasis on Beans (Phaseolus vulgaris). M. L. Schuster and D. P. Coyne. Hort Science.

Journal Abstracts (contact authors for more information)

- 76-539. Characterization of Soluble Proteins from Thiry-Vella Intestinal Loops in Pigs. M. B. Rhodes, C. A. Mebus, R. A. McCullough, C. A. Klucas and R. A. Hart.
- 76-540. Purification of Bovine Viral Diarrhea Virus and Preparation of Specific Fluorescein-Labelled Conjugates. Renee A. Hart and Marvin B. Rhodes.
- 76-541. Hatching Fluid of Ascaris suum (The Large Intestinal Roundworm of Swine) Used as an Immunizing Agent in Pigs. Carol A. Klucas and Marvin B. Rhodes.
- 76-542. Evaluation of Five Insecticides to Control a Natural Infestation of First Brood Larvae of European Corn Borer in Northeast Nebraska. John F. Witkowski. Insecticide and Acaricide Tests.
- 76-543. Effect of Age and Strain on Yield and Composition of Fowl Meat. G. W. Froning. Poultry Science Association.
- 76-544. Effect of Force-Feeding Additional Nutrients on Laying Hens Exposed to High Environmental Temperature. F. B. Mather, Malik M. Ahmad and Khalid H. Shariff. Poultry Science.
- 76-545. Effects of Dietary Energy, Protein and Environmental Temperature on Feed Intake and Hen Performance. F. B. Mather, Malik M. Ahmad and Earl W. Gleaves. Poultry Science.
- 76-546. Effect of Sodium Fluoride and High Fluorine Fertilizer Phosphates on Performance of Laying Chickens and Egg Shell Quality. H. J. Kuhl, Jr. and T. W. Sullivan. Poultry Science.
- 76-547. Alleviation of Fluorine Toxicity in Turkey Poults with Aluminum Compounds. Ahmet Cakir and T. W. Sullivan. Poultry Science.
- 76-548. Influence of Calcium Source and Particle Size on Performance of Laying Chickens and Egg Shell Quality. H. J. Kuhl, Jr. and T. W. Sullivan. Poultry Science.
- 76-549. Electrical Resistance of Cervico-Vaginal Mucus as it Relates to Stage of the Estrous Cycle and Peripheral Blood Serum LH Levels in Dairy Heifers. S. Al-Obaidi and L. L. Larson. Journal of Dairy Science.

BULLETINS PRINTED

- SB 494. Farm Partnerships for Nebraska. Steven McWhorter.
- SB 519. Vegetable Gardening in Nebraska. R. E. Neild.
- RB 271. Physical and Chemical Properties of Outdoor Beef Cattle Feedlot Runoff. C. B. Gilbertson, J. R. Ellis, J. A. Nienaber, T. M. McCalla and T. J. Klopfenstein.
- OTC 173. Millet Variety Tests 1975. L. A. Nelson.
- OTC 174. Nebraska Alfalfa Variety Tests 1963-1975. A. F. Dreier, W. R. Kehr, R. S. Moomaw, F. N. Anderson and P. H. Grabouski.