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Agricultural Experiment Station News March 1978

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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. 10, No. 9, March, 1978

FROM THE DIRECTORS DESK

The C. Y. Thompson Library has great difficulty in obtaining the proceedings of seminars, workshops, symposia, associations, societies, etc. The reason for this sorry state of affairs is that this type of material is not available through the regular book-selling channels, but instead is distributed by the secretary of the society to members present, with only a few additional copies printed for general distribution.

Two examples of this problem have occurred recently at the C. Y. Thompson Library. The library recently received an interlibrary loan request from another library for a copy of the proceedings held at the Nebraska Center for Continuing Education about four years ago. It was not in our collection and we were able to fill the request only because we were able to borrow a copy of the proceedings from one of the members who had been present. The second example occurred when a faculty member, in cleaning out his files, chose to send the material to the library instead of dumping it. To be sure there was a lot of unneeded material, but we found that there were 28 copies of proceedings of seminars, etc., in his files, of which the library had only ten in its collection, catalogued and available for use by UNL faculty and students.

We are appealing to you for help. First please provide the library with information as to where we may obtain a copy of proceedings of meetings which you have attended as soon as you receive word of their availability. Second, when you retire, move, or get an attack of spring cleaning fever, instead of filling up those big round files, send the material to the library. We will sort, save and pitch out what we can't use. In addition to our needs at C. Y. Thompson Library there is a university archivist, Joe Svoboda, who is very interested in obtaining all university material of a historical nature. Let him be the judge as to whether your files of activities in Nebraska societies, councils, etc. are of historical value.

Wayne Collings

Two Experiment Station Seminars are scheduled for the near future in which you are urged to participate. Each will provide plenty of time for general discussion.

March 29, 3:00 p.m., Room 31 Home Economics Building - "Interdisciplinary Research - The Wave of the Future?" Dr. Arnold will chair a panel including Drs. Francis, Hanway, Omtvedt, Bitney and DeShazer in discussing pros and cons, benefits and problems.

April 26, 3:00 p.m., Room 31 Home Economics Building - "The Complementary Roles of Plants and Animals for the Benefit of Man." Drs. Satterlee and Oltjen (US MARC) will highlight two recent NSF conferences related to this topic.

PERSONNEL ACTIONS

Norman, John M. - Agron. & Ag. Engineering - Professor - ~~New~~ Appointment
 Pedersen, Wayne L. - Plant Path. - Res. Assoc. - Resignation (to Penn. State)
 Pfeiffer, George H. - Ag. Economics - Asst. Professor - New Appointment
 Ramos, Jr., Angel S. - Vet. Science - Asst. Professor - New Appointment
 Reece, Patrick E. - Agron. (PH Sta.) - Asst. Prof. & Dist. Range Mgmt. Spec. - New Appt.
 Teter, Norman C. - Ag. Eng. - Professor - Resignation (to Philippine Islands)

GRANTS AND CONTRACTS

Clanton, D. C. - An. Science (NP Sta.) - Eli Lilly & Company	\$ 6,856
Compton, W. A. - Agronomy - Rob-See-Co	500
Danielson, M. - An. Sci. (NP Sta.) - Waldo Farms	750
Farlin, S. D. - An. Science - Merck & Co., Inc.	20,000
Flowerday, A. D. - Agronomy - National Crop Insurance Association	1,500
Gleaves, E. W. - An. Science - IMC Chemical Group, Inc.	2,300
Hogg, A. - Vet. Science - Miscellaneous Donors	132
Johnson, R. - Ag. Economics - USDA - ERS	1,000
Lagrone, W. F. - Ag. Economics - USDA - ERS	15,000
Lagrone, W. F. - Ag. Economics - USDA - Economics, Statistics, & Coop Serv.	4,000
Moser, L. E. - Agronomy - Henry Klosterman	1,000
Nordquist, P. T. - Agronomy (NP Sta.) - Growers-Great Western Res. Committee	3,600
Rehm, G. - Agronomy (NE Sta.) - Nat'l. Fertilizer Solutions Assoc.	2,000
Rhodes, M. - Vet. Science - Miscellaneous Donors	330
Shearman, R. - Horticulture - OMC - Lincoln	600
Splinter, W. E. - Ag. Engineering - Minnesota Vegetable Growers Assoc.	246
Sullivan, T. W. - An. Science - A. L. Laboratories	200
Wicks, G. - Agron. (NP Sta.) - Growers-Great Western Joint Res. Committee	5,000

GENERAL NOTES

1. The Agronomy department programs of teaching, research and extension were reviewed the week of March 6 - 10 in a comprehensive manner by an external panel of seven broadly experienced individuals representing the several relevant strengths. They conducted rigorous analysis and their observations and recommendations will contribute to the future development of these programs. We look forward to receiving their written report soon. A big thank you to all staff and others who participated in this review activity.
2. Your administration is working actively in concert with others within the national political arena to cause congressional restoration of the federal budgets for Experiment Stations and Extension Services, which were cut seriously in the President's budget recommendations. There is much support not only for restoration but perhaps some increase. We are hopeful.
3. Recipients of NSF and NIH grants are eligible to acquire excess government equipment when such is available and useful to the project. Our office has procedural information.
4. As a result of the last newsletter item about possible discontinuation of attaching the list of publications, responses indicate that many desire its continuation. We plan to continue it.
5. We have many new staff colleagues in our various departments. Let us each make special efforts to get acquainted with them and their families and help them get established and feel at home in our campus and community.
6. When coasting, one is either losing momentum or is headed down hill.

R. W. Kleis

Journal Articles (contact authors for more information)

5465. Genetic Variation, Inheritance and Breeding Strategy for Resistance to Sclerotinia sclerotiorum in Beans (Phaseolus vulgaris L.). Dermot P. Coyne, J. R. Steadman and Howard Schwartz. Proceedings of Bean Improvement Coop., and Nat. Dry Bean Council Meeting, 1977.
5466. Selecting for Drought and Heat Resistance in Grain Sorghum. C. Y. Sullivan and W. M. Ross. Proceedings Boyce Thompson Institute Conference on Stress Physiology in Crops.
5467. Respiration During Hyperthermia in the Chicken as Influenced by an Increase in Inhaled CO₂. G. M. Barnas, F. B. Mather and J. A. DeShazer. Poultry Science.
5468. Relationship Between the Discharge of Avian Intrapulmonary CO₂ Receptors and Parabronchial Smooth Muscle Contraction. G. M. Barnas, F. B. Mather and M. R. Fedde. Respiration Physiology.
5469. Response of Avian Intrapulmonary Smooth Muscle to Changes in Carbon Dioxide Concentration. G. M. Barnas, F. B. Mather and M. R. Fedde. Poultry Science.
5470. Evaluation of Brewers Dried Grains and Yeast in Turkey Diets. T. W. Sullivan, H. J. Kuhl, Jr. and D. P. Holder. Poultry Science.
5471. Influence of TIBA (2,3,5-TRIIODOBENZOIC ACID) on the Yield and Quality of Alfalfa (Medicago sativa L.) Forage. W. A. Anderson, A. D. Flowerday, W. R. Kehr and R. L. Ogden. Agronomy Journal.
5472. The Effect of Luck and Misinformation on the Discrepancy Between Multiple-Choice Test Scores and True Ability. Stephen R. Lowry. Educational Researcher.
5473. A Shake Culture Method for Pythiaceae Applicable to Rapid, Small-Scale Assay of Vegetative Physiology. Carroll D. Rawn and James L. Van Etten. Phytopathology.
5474. A Possible Structure for the Maize Streak Virus Capsid. Leslie C. Lane. Virology.
5475. Characterization of Bean Bacterial Diseases and Implications in Control by Breeding for Resistance. M. L. Schuster, D. P. Coyne, M. Hulluka, Lisa Brezina and E. D. Kerr. Euphytica.
5476. Identification of Factors Influencing Vocational Agriculture Teachers to Leave Teaching. Roy D. Dillon. Teacher Educators in Agriculture.
5477. Leaf and Stem Yields and Forage Quality of Three Nitrogen Fertilized Warm-Season Grasses. L. J. Perry, Jr. Agronomy Journal.
5478. Compatibility and Phytotoxicity of Herbicide-Fertilizer Combinations. A. R. Martens, O. C. Burnside and G. L. Cramer. Agronomy Journal.
5479. Mechanism of Antibacterial Antibiotic Sensitivity in Pythium ultimum. Carroll D. Rawn and James L. Van Etten. Journal of General Microbiology.

Journal Abstracts (contact authors for more information)

- 78-980. Dicamba and 2,4-D Injury to Corn. Fred W. Roeth and Russell S. Moomaw. Proceedings of the North Central Weed Control Conference - 1977.
- 78-981. Herbicidal Control of Musk Thistle. Fred Roeth. Weed Science Society of America Proceedings - 1978.
- 78-982. Observations of Life Cycle of Spurge Hawkmoth (Celerio euphorbiae L.). J. R. Forwood and M. K. McCarty. Nebraska Academy of Science.
- 78-983. Pantothenic Acid Intake Levels of Adolescent and Adult Humans on Self-Selected Diets. J. Kathman and C. Kies. Nebraska Academy of Science.
- 78-984. Effects of Cellulose and Hemicellulose Supplements on Calcium and Magnesium Utilization of Adolescent Humans. M. McHale, C. Kies and H. M. Fox. Nebraska Academy of Science.
- 78-985. Food Habit Changes of Persons of Chinese Background Living in Lincoln, Nebraska. Grace Yang and Hazel Fox. Nebraska Academy of Science.
- 78-986. Nutrition Education for Lincoln Firemen. Ruth Baker and Hazel Fox. Nebraska Academy of Science.
- 78-987. Copper and Iron Utilization from Orally Administered Elemental and Liquid Formula Diets. D. Gronil, C. Kies, H. M. Fox and L. Vaughan. Nebraska Academy of Science.
- 78-988. Bioassays of Lead and Fiber Involvement in Iron Deficiency Anemia. K. Leu, C. Kies and H. M. Fox. Nebraska Academy of Science.
- 78-989. Pantothenic Acid/Methionine Interrelationships in Humans. R. Woitaszewski, C. Kies and H. M. Fox. Nebraska Academy of Science.
- 78-990. Chromium and Zinc Utilization by Humans Consuming Elemental and Nonelemental Liquid Diets. S. Carpenter, C. Kies, H. Fox and L. Vaughan. Nebraska Academy of Science.
- 78-991. Wheat Bran Supplementary Effects on Nutritional Status of Human Adults. C. Kies, H. M. Fox and L. Vaughan. 6th International Cereal and Bread Congress.
- 78-992. Interior Products and Burn Accident Involvement in Nebraska. Joan Laughlin. Nebraska Academy of Science.
- 78-993. Effect of Selected Laundry Procedures on Performance Levels of Flame Retardant Work Garments. Joan Laughlin and Anne Fehringer. Nebraska Academy of Science.

BULLETINS PRINTED

- OTC 185. Nebraska Grain Sorghum Performance Tests 1977. A. F. Dreier, P. T. Nordquist, L. V. Svec, P. H. Grabouski and L. A. Nelson.
- OTC 186. Proso Variety Tests 1977. L. A. Nelson.