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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. 12, No. 2, September, 1978

FROM THE DIRECTOR'S DESK

PROJECT REVIEWS: The project review is a primary unit of planning and accountability in the Experiment Station. Interestingly, in 1977 CR/SEA asked each Station to develop a peer review process very similar to the one which we have used for several years. Our system has been approved by CR/SEA.

Basic to the project review is the effort that reviewers put into it. We realize that serving as a reviewer takes time and energy, but we want you to know that we regard the review process as important and worthwhile. What are the objectives of a review?

1. To evaluate the quality, scientific value and relevance of the proposed project.
2. To provide for interaction between project leader and reviewers.
3. To consider opportunities for cooperation.

We are exploring ways in which the review schedules can be expedited.

Hatch Funds Versus Cooperative Grants: There have been some newspaper comments recently which have decried a supposedly negative posture by Experiment Stations to the new competitive grant for basic agricultural research. The Experiment Stations and the Land Grant System have not been trying to stifle the program. The source of great concern among Experiment Station administrators was the recommended decrease in Hatch funding which appeared to be the means of funding the competitive grant program.

The Experiment Station-USDA research system is not opposed to basic research. It engages continually in basic research, not as an end in itself, but as necessary to solve identified problems. One does not create a continuing long-run research thrust on a financial base which depends heavily on grant funds. It takes a sustained base of the nature provided by Hatch and State budgets. Given a solid budgetary base, grants do provide incremental resources by which agricultural scientists can and will expand their efforts to include more basic research approaches and new priorities. However, it makes little sense to do this by cutting the base and converting the resources into less dependable forms.

Howard W. Ottoson

PERSONNEL ACTIONS

Amend, James F. - Associate Professor - Vet. Science - New Appointment
Berry, Ivan L. - Professor - Ag. Engineering - Courtesy Appointment
Casari, Laura I. - Assistant Professor - Ag. Communications - New Appointment
Deutscher, Gene G. - Associate Professor - Animal Science (NP Sta.) - New Appointment
Gluesing, Ernest A. - Asst. Professor - Forestry, Fisheries & Wildlife - Resignation
Hahn, G. LeRoy - Professor - Ag. Engineering (MARC) - Courtesy Appointment
Hawkins, J. Wallace - AID Advisor (Prof. of Ag. Comm.) - Int. Programs - Resignation
Jones, J. Ackland - Assistant Professor - Entomology - New Appointment
Olson, Emanuel A. - Professor - Ag. Engineering - Retirement
Rider, Allen R. - Associate Professor - Ag. Engineering - New Appointment
Rogoff, William M. - Professor - Entomology - Courtesy Appointment
Staats, Herschel L. - Associate Professor - Ag. Education - New Appointment
Sullivan, Kathleen A. - Assoc. State Leader Home Ec. - Resignation (to Mason City)
Todd, Kim W. - Assistant Professor - Horticulture - New Appointment

GRANTS AND CONTRACTS

Burnside, O.C. - Agronomy - Miscellaneous Donors	\$ 1,000
Burnside, O.C. - Agronomy - Rohm & Haas Company	1,000
Campbell, J.B. - Entomology (NP Sta.) - Burroughs Wellcome Company	500
Case, R.M. - Forestry, Fisheries & Wildlife - ICA Americas, Inc.	2,000
Chollet, Raymond - Biochemistry - National Science Foundation	47,600
Daigger, L.A. - Agronomy (PH Sta.) - Scheuerman Enterprises, Ltd.	1,500
Daly, J.M. and H.W. Knoche - Biochemistry - Nebr. Dept. of Ag., Wheat Comm.	7,800
DeShazer, J.A. - Ag. Engineering - U.S. Dept. of Agriculture	13,633
Doupnik, B.M. - Plant Pathology (SC Sta.) - Merck and Company, Inc.	750
Flowerday, A.D. - Agronomy - Archer Daniels Midland Company	2,000
Gessaman, P.H. - Ag. Econ. - USDA, North Central Regional Ctr. for Rural Dev.	8,110
Hanna, Milford - Ag. Engineering - Archer Daniels Midland Company	1,500
Mattern, P.J. - Agronomy - Nebr. Dept. of Agriculture - Wheat Commission	10,000
Mayo, Z.B. - Entomology - Mobay Chemical Corporation - Chemagro Division	1,000
Moomaw, R.S. - Agronomy (NE Sta.) - Rohm & Haas Company	750
Peters, L.L. - Entomology (SC Sta.) - Mobay Chemical Corp. - Chemagro Div.	800
Rehm, G.W. - Agronomy (NE Sta.) - NE Nebraska Exp. Farm Assn.	628
Roeth, F.W. - Agronomy (SC Sta.) - Miscellaneous Donors	750
Sander, D.H., G.A. Peterson & L.A. Daigger - Agron - Nebr Dept of Ag-Wheat Comm.	3,500
Schmidt, J.W. - Agronomy - Nebr. Dept. of Ag., Wheat Commission	14,000
Shearman, R.C. - Horticulture - Turf Grass Foundation	1,200
Sullivan, T.W. - Animal Science - Syntex Research Division	2,400
Vollmar, Glen - Ag. Economics - LeDioyt Land Company	10,000
Watkins, J.E. - Plant Pathology - Miscellaneous Donors	750
Wicks, G.A. - Agronomy (NP Sta.) - Stauffer Chemical Company	500
Williams, J.H. - Agronomy - Archer Daniels Midland Company	2,000
Witkowski, J.F. - Entomology (NE Sta.) - Mobay Chemical Corp.	525
Witkowski, J.F. - Entomology (NE Sta.) - Velsicol Chemical	3,000

GENERAL NOTES

1. Another reminder of deadlines for applications for Research Council funding: for faculty travel, research grants or visiting scholar funding the deadlines are December 1, March 1, May 1, and September 7 for funding in the four quarters of 1979. Staff are urged to seek support from this source for appropriate needs.
2. The Appropriations Committee of the Legislature and their fiscal analysts have been visiting some IANR units recently and may be visiting others. The N.P. Station, the SAL and several departments on campus have hosted such visits recently. We are pleased to show them our (and their) programs and appreciate the fine cooperation of staff in this important duty.
3. The Science and Education Administration (SEA) of the USDA received some 1,100 grant applications under their solicitation for the new Competitive Grants Program. The IANR submitted fourteen. The selections have been made of 190 projects for funding. Twenty-one have been announced and none of ours were included. Additional announcements should be forthcoming soon.
4. Agronomy "Field Day" at the Field Laboratory on September 19: Tours of research 9:30 to 12:00; lunch served on site by Agronomy Club; follow-up visitation after lunch.
5. "It is usefulness that establishes value."

R.W. Kleis

NEBRASKA AGRICULTURAL EXPERIMENT STATION PUBLICATIONS - August 1978

Journal Articles (contact authors for more information)

5553. Phosphoenolpyruvate Carboxylase Reduces Photorespiration in *Panicum milioides*. C. K. M. Rathnam and R. Chollet. Proceedings National Academy of Science, USDA.
5554. Charcoal Stalk Rot of Sorghum: Effect of Environment on Host-parasite Relations. G. N. Odvody and L. D. Dunkle. Phytopathology.
5555. Bioassays of Lead and Fiber Involvement in Iron Utilization in Weanling Mice and Human Adolescents. K. Leu, C. Kies and H. M. Fox. Journal of Food Science.
5556. Flux-angle Distribution of Momentum, Sensible Heat and Water Vapor over a Vegetated Surface. R. P. Motha, S. B. Verma and N. J. Rosenberg. Agricultural Meteorology.
5557. Monensin, Protein Source and Protein Levels for Growing Steers. Tom L. Hanson and Terry Klopfenstein. Journal of Animal Science.
5558. Variation of Center Pivot Operations with Field Slope. R. J. Edling. Transactions of the ASAE.
5559. Dark CO₂ Fixation in Sorghum. V. Mahalakshmi, A. K. Dobrenz and J. D. Eastin. Agronomy Journal - A Note.
5560. Calcium and Magnesium Nutritional Status of Adolescent Humans Feeding Cellulose or Hemicellulose. M. McHale, C. Kies and H. M. Fox. Journal of Food Science.
5561. Blood Serum Fatty Acid Patterns of Adolescent Boys as Influenced by Source of Dietary Fat: Safflower Oil/Corn Oil/Apricot Kernel Oil. C. Beier, C. Kies and H. M. Fox. Journal of Food Science.
5562. Comparison of Human and Animal Studies at Nebraska. Constance Kies. Keystone Conference of Protein Quality Proceedings.
5563. Chromium and Zinc Utilization from Elemental and Nonelemental Liquid Formulas by Human Adults. S. Carpenter, C. Kies and H. M. Fox. Journal of Food Science.
5564. Runoff and Soil Loss Under a Center Pivot Irrigation System. A. A. Y. Hanna, P. W. Harlan and D. T. Lewis. Journal of Soil and Water Conservation.
5565. Nitrogen Fixation Associated with Roots of Sorghum and Wheat. Robert V. Klucas and Wayne Pedersen. Proceedings of Steenbock-Kettering International Symposium on Nitrogen Fixation.
5566. Crop Residue Management and Weed Control in Narrow-Row Soybeans. R. S. Moomaw and O. C. Burnside. Agronomy Journal.
5567. Wheat Straw in Growing Cattle Rations. Gary Lesoing, Ivan Rush, Terry Klopfenstein and John Ward. Journal of Animal Science.
5568. Chemical Treatment of Wheat Straw. Gary Lesoing, Terry Klopfenstein, Ivan Rush and John Ward. Journal of Animal Science.

Journal Abstracts (contact authors for more information)

- 78-1060. Selected B Vitamin Utilization from Elemental and Nonelemental Formula Diets by Human Adults. Rebecca Greenfield (Constance Kies). Research Abstracts, American Home Economics Association.
- 78-1061. The Effect of Cellulose, Hemicellulose and Pectin on Dietary Fat Utilization by the Human Adult. Lucina Lampila (Dr. Constance Kies). Research Abstracts, American Home Economics Association.
- 78-1062. Blood Lipid Levels of Adult Men on Vitamin D Supplemented and Unsupplemented Diets. Kathryn V. Retzlaff (Dr. Constance Kies). Research Abstracts, American Home Economics Association.
- 78-1063. Vitamin B₁₂/Pantothenic Acid/Methionine Interrelationships in Human Adults. Mary Ann Perryman (Dr. Constance Kies). Research Abstracts, American Home Economics Association.
- 78-1064. The Effect of Dietary Hemicellulose and Zinc on Blood Serum Lipid Levels and Fecal Fat Excretion of Adult Humans. Alethea C. Joseph (Dr. Constance Kies). Research Abstracts, American Home Economics Association.
- 78-1065. Effect of Dietary Fiber on Copper, Zinc and Magnesium Utilization by Adolescent Boys. Linda Mae Drews (Dr. Constance Kies). Research Abstracts, American Home Economics Association.
- 78-1066. Effect of Dietary Plant Oils on Blood Lipid Fatty Acid Composition of Adolescent Boys. Carol Ann Feyerherm (Dr. Constance Kies). Research Abstract, American Home Economics Association.
- 78-1067. Apparent Digestibility of Dietary Fiber by Adolescent Boys. Susan Gramstorff (Dr. Constance Kies). Research Abstracts, American Home Economics Association.
- 78-1068. Dietary Fiber/Zinc Interactions Affecting Zinc Nutritional Status of Humans. Donna Beshgetoor (Dr. Constance Kies). Research Abstracts, American Home Economics Association.
- 78-1069. Dietary Fiber Effects on Nutritional Status of the Weanling Mouse. Kathryn H. Keim (Dr. Constance Kies). Research Abstracts, American Home Economics Association.
- 78-1070. Alfalfa Protein Concentrate in Relation to Variety and Stage of Growth. R. L. Ogden, W. R. Kehr and L. D. Satterlee. Proceedings, 26th Alfalfa Improvement Conference.

BULLETINS PRINTED

- RB 285. Results of the Eighth International Winter Wheat Performance Nursery Grown in 1976. K. D. Wilhelmi, S. L. Kuhr, V. A. Johnson, P. J. Mattern and J. W. Schmidt.