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UNIVERSITY OF NEBRASKA–LINCOLN
COLLEGE OF AGRICULTURE
THE AGRICULTURAL EXPERIMENT STATION

H. W. OTTOSON, DIRECTOR AND
ACTING DEAN

Agricultural Experiment Station .NEWS.

Vol. 7, No. 1, July 1974

THE FOOD PROTEIN RESEARCH GROUP

The Food Protein Research Group is an ad hoc, informal interdesciplinary grouping of researchers who are coordinated in their efforts to achieve a systems approach to the problems of developing plant protein isolates.

Staff members involved in the Group are Drs. Dam, Kendrick and Satterlee of the Agricultural Experiment Station and Drs. Johnson and Scheller from the Engineering College. The professors located on the East Campus are involved in projects concerning protein from leaf (alfalfa), dry edible beans and grain sources with special concern to the physicochemical, nutritional and toxicological properties of protein isolates from each source. The engineering professors are involved in taking data on procedures developed in the East Campus Laboratories and projecting how they will fit into ongoing industrial processes.

Agricultural Experiment Station support of these research projects is being supplemented by grants from the National Science Foundation, the Nebraska Department of Economic Development, the Nebraska Wheat Commission, the Nebraska Department of Agriculture and the Nebraska Dehydrators Association.

Future plans are for continuing concentration of research efforts on the physicochemical and economic evaluation of various protein isolates. Consideration is being given to building a pilot facility to allow larger quantities of each protein isolate to be produced.

Drs. Dam, Kendrick and Satterlee

FACILITIES APPROPRIATIONS - UNL OF 1974 LEGISLATURE

PROJECT	TOTAL APPROPRIATION	74-75	75-76	76-77
Utilities and Pl. Materials Bldg., NP	$ 262,000	$ 130,000	$ 132,000	$
Boiler and Utilities, East Campus	230,000	130,000	100,000	
Chiller and Utilities, City Campus	1,195,000	50,000	750,000	395,000
Utility Tunnel Repairs, UNL	150,000	150,000		
Dental College Modifications	125,000	125,000		
Fieldhouse (supplemental)	2,400,000	2,400,000		
Life Science Bldg.	6,200,000	1,095,000	3,030,000	1,844,900
Animal Health Res. Fac.	8,000,000	1,470,000	4,600,000	1,925,000
Foods and Nutr. Renovation	700,000	200,000	500,000	
Miscellaneous Renovations, UNL	150,000	150,000		
Vet. Tech and Production Ag, Curtis	836,000	175,000	661,000	
Facilities Renovation, NP	50,000	50,000		

Newsletter Survey - About 250 returns from you on the form and content of this newsletter indicate strongly that it is worthwhile and we will therefore continue it. We appreciate the several suggestions and comments.

PERSONNEL ACTIONS

Andrachek, Steven C. E. - Asst. Prof. of Educ. and Family Resources (resignation)
Campion, Dennis R. - Asst. Prof. of Animal Science, MARC (courtesy appointment)
Christensen, Mary Dale - Asst. Prof. of Educ. and Family Resources (resignation)
Coupe, Richard E. - Instr. in Vet. Sci. (courtesy appointment--resignation)
Edwards, Arthur P. - Associate Professor of Agronomy (new appointment)
Ford, Johny Joe - Asst. Prof. of Animal Science, MARC (courtesy appointment)

Frahm, Donald G. - Assistant Professor of Agricultural Economics (resignation)
Krause, Vernon E. - Assistant Professor of Animal Science, NE Sta. (new appointment)
Laughlin, Joan Marie - Asst. Prof. of Textiles, Clothing and Design (new appointment)
Lunstra, Donald D. - Asst. Prof. of Animal Science, MARC (courtesy appointment)
Mielke, Lloyd N. - Asst. Prof. of Agronomy (courtesy appointment--promotion)
Olson, Robert A. - Professor of Agronomy (leave of absence)

Poley, Janet K. - Assistant Prof. of Agr'l Communications (leave of absence)
Schanbacher, Bruce D. - Asst. Prof. of Animal Science, MARC (courtesy appointment)
Schuman, Gerald E. - Asst. Prof. of Agronomy (courtesy appointment--promotion)
Scruggs, Barbara Jean - Instr. in Textiles, Clothing and Design (resignation)
Skinker, G. - Home Ec. State Specialist & Instr. in Educ. & Fa. Rscs. (leave of absence)
Wham, Mary M. - Prof. of Education and Family Resources (leave of absence)

GRANTS AND CONTRACTS

Blad, B. L. and N. J. Rosenberg, Horticulture and Forestry - NASA	$ 7,148
Britton, Robert - Animal Science - State Department of Agriculture	3,500
Coyne, Dermot P. - Horticulture and Forestry - Green Giant Foundation	1,500
Hanway, D. G. and E. A. Dickason - Agronomy and Entomology - NSF	31,366
Mattern, Paul J. - Agronomy - AID	319,500
Rush, Ivan - Animal Science (PH Sta.) - Diamond Shamrock Chemical Co.	5,700
Sander, D. H.; G. A. Peterson & L. A. Daigger - Agron. - State Dept. of Ag.	12,790
Satterlee, L. D. - Food Science and Technology - State Dept. of Agriculture	3,500
Schmidt, John W. - Agronomy - State Department of Agriculture	10,000
Shahani, Khem - Food Science and Technology - J. Gordon Robert Ltd.	6,000
Twiehaus, M. J. - Veterinary Science - Miscellaneous Donors	3,839
Williams, James H. - Agronomy - Daniels Midland Company	5,500

GENERAL NOTES

1. Tractor Power and Safety Day - Field Laboratory - July 25.

2. The new Home Economics building is essentially complete and occupied. Formal dedication ceremonies are planned for September 4.

3. Schnieder on Safety: We should all encourage care in driving farm equipment on the roadway, especially tractors with tool bars wider than the 8 foot limit. A number of car and motorcycle collisions have occurred with tool bars extending out beyond the width of the tractor. The tool bar should be lighted or reflectorized for evening travel.

4. The Experiment Station and Extension Service biennial Workers Conference is scheduled for January 6, 7, and 8, 1975. The planning committee is developing a good program for this special year of the new administration and organization. Please guard these dates on your calendar.

5. Saz sez - The Station personnel are doing a much better job of housekeeping and keeping our facilities across the state presentable to our public. Keep up the good work. It is important.

R. W. Kleis

NEBRASKA AGRICULTURAL EXPERIMENT STATION PUBLICATIONS - June 1974

Journal Articles (contact authors for more information)

3815. Full vs Limited Feeding of Growing-Finishing Swine. D. M. Danielson, J. J. Noonan and P. J. Cunningham. Journal of Animal Science.

3816. 'Valley' Great Northern Dry Bean. D. P. Coyne and M. L. Schuster. Hort Science.

3817. Nebraska Trials on Storage of Acid Treated Corn. Norman C. Teter. ASAE.

3818. Irrigation System Management for Reducing Peak Electrical Demands. Darrell G. Watts, LaVerne E. Stetson, Fred C. Corey and Ivan L. Nelson. Transactions of the ASAE.

3819. Handling Housed Beef Cattle Feedlot Manure. C. B. Gilbertson and J. A. Nienaber. ASAE Journal.

3820. The Effect of Ration on Nutrient and Energy Composition of Beef Cattle. C. B. Gilbertson, J. A. Nienaber, J. R. Ellis, T. M. McCalla, T. J. Klopfenstein and S. D. Farlin. ASA.

3821. Simulation and Economic Analysis of On-Farm Grain Drying and Storage Systems. P. W. Lytle, T. L. Thompson and E. H. Rasschaert. Transactions of the ASAE.

3822. Airflow Patterns in Conical-Shaped Piles of Grain. Richard O. Pierce and Thomas L. Thompson. Transactions of the ASAE.

3823. Protein Nutritional Value of Soy Meat-Analog Products for Humans. C. Kies and H. Fox. The Professional Nutritionist.

3824. Waste Management Problems. T. M. McCalla. Proceedings of the Annual Meeting of Soil Conservation Society of America (Syracuse, N.Y.; Aug. 11-14, 1974).

3825. Application and Interpretation of Sensory Tests in Food Product Development. F. I. Brandt and R. G. Arnold. Journal of Food Science.

3826. Nucleic Acids and Fungal Spore Germination. James L. Van Etten, Larry D. Dunkle and Robert H. Knight. For Book "Form and Function in the Fungus Spore" by W. M. Hess & D. J. Weber (ed) pub. John Wiley & Sons.

3827. The Effect of Cations on the Alkaline Dissociation of Tobacco Mosaic Virus. C. A. Powell. Virology.

3828. Effect of Low Level Gamma Irradiation on Growth and Patulin Production by *Penicillium patulum*. L. B. Bullerman and T. E. Hartung. Journal of Food Science.

3829. A System and Program for Monitoring CO_2 Concentration and Gradients in an Agricultural Region. Norman J. Rosenberg and Shashi B. Verma. Journal of Geophysical Research.

3830. Reflectant Induced Modification of Soybean (Glycine max L.) Canopy Radiation Balance III. A Comparison of the Effectiveness of Celite and Kaolinite Reflectants Raoul Lemeur and Norman J. Rosenberg. Agronomy Journal.

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Journal Abstracts (contact authors for more information)

74-346. Waste Management Problems. T. M. McCalla. Proceedings, Soil Conservation Society of America.

74-347. Added Fiber and Apparent Protein Value of a Food Product for Humans. Constance Kies and Hazel M. Fox. Cereal Science Today.

74-348. Effect of Dichlorvos and Calcium-Phosphorus on Reproductive Performance of Swine. John J. Noonan and David M. Danielson. Journal of Animal Science.

BULLETINS PRINTED

SB 531. Perennial Flowers and Ground Cover for Nebraska. R. D. Uhlinger, D. S. Nuland and S. S. Salac.