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Agricultural Experiment Station News September 1984

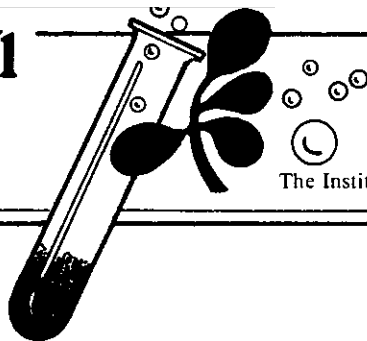
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FACULTY SALARY COMPARISON

Faculty salaries at the 55 Agricultural Experiment Stations included in the recently released 1983-84 USDA Salary Analysis increased 3.1 percent over the average for 1982-83. Although it is anticipated that University of Nebraska salary increases for 1984-85 were above the average, the following comparison indicates the need for salaries to continue to receive high priority in budget requests.

	1983-84 Annual Salaries			
	55 AES Average	Nebraska Average	Difference	
			Amount	%
Dept. Head	\$50,358	\$49,470	\$ -888	-1.8
Professor	43,871	40,970	-2,901	-7.1
Assoc. Prof.	34,222	31,844	-2,378	-7.5
Assist. Prof.	29,075	28,214	-861	-3.0

RESEARCH EQUIPMENT ALLOCATION

The Agricultural Research Division has received \$124,022 for purchase of research equipment. This represented about 75 percent of the anticipated allocation for the current fiscal year. Using the prioritized equipment need lists provided by Unit Administrators to the ARD office earlier this year, the funds have been allocated among units, making it possible to acquire most of the first priority research equipment items. Units receiving funds and authorized to purchase equipment at this time have been notified directly.

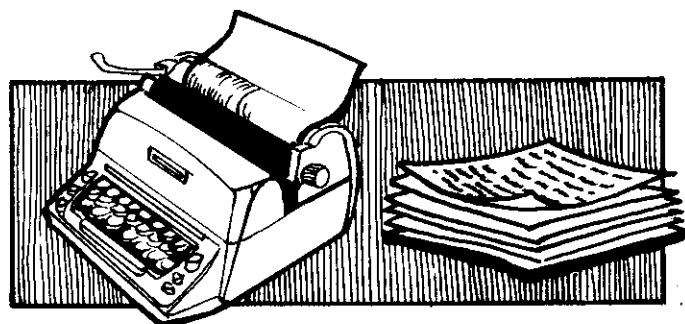
FIELD LABORATORY OVERSIGHT COMMITTEE

Terry Klopfenstein (Animal Science) was elected Chairman and **Jim Brandle** (Forestry, Fisheries and Wildlife) was elected Secretary of the University Field Laboratory Oversight Committee at its August 22, 1984 meeting. All IANR departments with programs at the Field Laboratory have representatives on this committee and it is envisioned for this committee to advise the Superintendent of the Field Laboratory on matters relating to development and operations.

Other committee members include: **Paul Fischbach** (Agr. Engr.); **Merwin Frey** (Vet. Sci.); **Stan Jensen** (Plant Path.); **Z B Mayo** (Entomology); **Darrell Nelson** (Agronomy); **Ernie Peo** (Animal Science); **Bob Shearman** (Horticulture); and **Shashi Verma** (CAMaC). **Warren Sahs** and **Richard McManaman** are ex-officio members. Faculty are encouraged to visit with their representatives regarding items this committee may wish to consider.

ENTOMOLOGY SEARCH COMMITTEE

Application deadline for the position of Entomology Department Head was August 1, 1984. The committee is currently completing the application folders and hopes to submit its final list of candidates to Vice Chancellor Arnold before **October 1, 1984**. **Elvis Dickason** has agreed to delay his retirement until the end of the current year.



PUBLICATION REVIEW PROCESS

The Agricultural Research Division Advisory Council is evaluating the Movement-of-Copy and review procedures used for approval of Division manuscripts. An ad hoc committee has been appointed consisting of **Phil Holman** (Ag. Comm.), **John Norman** (Agronomy), **Les Lane** (Plant Pathology), with **Dale Vanderholm** (Agr. Research Division) as Chairman.

This committee would welcome comments and suggestions from staff relative to the approval process before formulating their recommendations. Forward responses to Dale Vanderholm before September 20, 1984. The current procedures were developed when the old publication index was in existence and conditions have changed considerably since then.



NEW RESEARCH FACULTY ON BOARD

David J. Andrews. Joined the Department of Agronomy as a Professor in International Sorghum-Millet Breeding Program. He is a native of Great Britain and served as Program Leader and Plant Breeder in the Pearl Millet Improvement Program at the International Crops Research Institute for the Semi-Arid Tropics (ICRISAT) in Hyderabad, India. He received his B.S. degree from University College of North Wales and received diplomas from Selwyn College, Cambridge University and Imperial College of Tropical Agriculture, Trinidad. He spent nine months on sabbatical leave at the University of Nebraska, Department of Agronomy in 1979-1980.



Emilio Pagoulatos. Joined the Department of Agricultural Economics as a Professor in the area of international trade on a 70 percent research and 30 percent teaching appointment. He is a native of Greece and came to Nebraska from the University of Florida. Pagoulatos received a Doctorate in Economics from University of Rome and a Ph.D. degree in Economics from Iowa State University. He was on the faculty at University of Missouri-St. Louis prior to moving to Florida in 1979.



NEW FACULTY APPOINTMENTS

The University of Nebraska Board of Regents approved the appointments of the following new faculty in the Agricultural Research Division since the last newsletter:

Stephen C. Mason, Assistant Professor of Agronomy; former Flowerday position; 75 percent teaching and 25 percent research; effective August 20, 1984.

Fernando A. Osorio, Assistant Professor of Veterinary Science; former Kelling virology position; 75 percent diagnostic service and 25 percent research; effective September 1, 1984.

Subramaniam Srikumaran, Assistant Professor of Veterinary Science; former Torres-Medina immunology position; 95 percent research and 5 percent teaching; effective September 1, 1984.

AGRICULTURAL RESEARCH BROCHURE

The current supply of the Agricultural Research brochure is nearly exhausted and plans are underway to print a revised folder this winter. Each IANR administrative unit has been asked to submit suggested changes to the Director's Office. However, **Irv Omtvedt** would appreciate receiving input from all staff who have suggestions for improving the publication before it is reprinted.

NEW OR REVISED PROJECTS

A Climate Data Base and Model for Estimating Crop Yields. (27-005)

Kenneth G. Hubbard, *Center for Agricultural Meteorology and Climatology*

Objectives: (1) Improve methods of making estimates of phenological development for selected crops. (2) Develop a climate data base of sufficient detail and length to permit study of climatic influence on crop growth, development and yield. (3) Determine for Nebraska's major crops the sensitivity to timing and amount of moisture (precipitation or irrigation). (4) Integrate climatic information into an empirical climate model that estimates crop production potential.

New Hatch project effective July 1, 1984.

Biology, Ecology and Control of Major Insects Affecting Livestock (Primarily Bovine) in Nebraska. (42-024)

John B. Campbell, *West Central Research & Extension Center*

Objectives: (1) Determine thermal fly stress on cattle. (2) Determine effect of cattle lice on cattle performance. (3) Evaluate insect predators and parasites for house and stable fly control. (4) Determine effects of horn flies on calf weaning weights. (5) Determine effects of wide area fly control on following year's population of horn and face flies. (6) Evaluate development of resistance in two groups of cattle with different fly control management practices.

Revised Hatch project effective April 5, 1984.

Residential Mobility of Rural Populations and Relocation of the Rural Elderly. (92-012)

Jean A. Memken, *Education and Family Resources*

Objectives: (1) Investigate the relationship among residential mobility, characteristics of the housing and characteristics of the household. (2) Identify the effect the mobility process has on the elderly, particularly those elderly living in rural areas.

New Hatch project effective July 1, 1984.

ADDITIONAL SOYBEAN BOARD PROJECTS

The following projects were approved by the Nebraska Soybean Development, Utilization and Marketing Board for funding for FY 84-85, but were omitted from the July Agricultural Research Division Newsletter:

J. P. Markwell	The Role of Protein Phosphatase Enzymes in Soybean Photosynthetic Energy Production	13,400
A. K. Vidaver	Genetic Engineering of "Super" Nitrogen Fixers	21,971
M. G. Boosalis D. H. Yocum G. A. Wicks	The Influence of Mycorrhizae on the Productivity of Field Crops	6,750

UNL RESEARCH COUNCIL

The UNL Research Council provides support for a number of competitive awards designed to encourage and enhance the research and scholarly activities of the UNL faculty.

The Council presently supports meritorious applications for Faculty Summer Research Fellowships, Research Grants-in-Aid, Travel Grants to Scholarly Meetings, and support for Visiting Scholars and Symposia. Because of the extensive demand, funds for these programs are allocated on a competitive basis. Travel to Scholarly Meetings and Visiting Scholar awards will be made quarterly; Research Grants-in-Aid are made semi-annually; and Faculty Summer Fellowships and Invited Symposia/Montgomery Lectures are awarded annually.

Deadlines shown below are for receipt of applications in the Research Council Office, 412 Administration Building. The applicant is responsible to clear the applications through the offices of the department head, cognizant dean and delivery to the Research Council Office by the deadline. **No late applications will be considered.**

Travel to Scholarly Meetings and Visiting Scholars:

<i>For Support From:</i>	<i>Deadline</i>
Jan. 1 '85 to March 31 '85	Dec. 1, 1984
April 1 '85 to June 30 '85	March 1, 1985
July 1 '85 to Sept. 30 '85	May 1, 1985
Oct. 1 '85 to Dec. 31 '85	Sept. 3, 1985

Research Grants-in-Aid:

<i>For Grants Beginning:</i>	<i>Deadline</i>
Jan. 1 '85 to June 30 '85	Nov. 1, 1984
July 1 '85 to Dec. 31 '85	April 1, 1985

Faculty Summer Research Fellowships, Montgomery Lectures, and Invited Symposia for 1985 all have a deadline of October 1, 1984.

COMPREHENSIVE PROGRAM REVIEWS

The dates for CSRS-sponsored program reviews have been set for the following IANR administrative units:

Plant Pathology Department	September 25-28, 1984
Biometrics & Information Systems Center	March 4-7, 1985
Agronomy Department	March 18-22, 1985
Panhandle Research and Extension Center	April 22-26, 1985

FACULTY RETIREMENTS

The following faculty with Agricultural Research Division appointments have either retired or announced their retirements during 1984:

Paul Fischbach	Ag. Engineering
Don Hanway	Agronomy
Bart Stewart	Ag. Communications
Florence Walker	Educ. & Family Resources
Loyd Fischer	Ag. Economics

The following faculty have taken partial retirements:

Walt Bagley	Forestry, Fisheries & Wildlife
Harold Ball	Entomology
Leon Chesnin	Agronomy

FACULTY RESIGNATIONS

The following faculty with Agricultural Division appointments have resigned:

Chuck Francis, Agronomy — Research position at Rodale Press, Kutztown, Pennsylvania.

Phil Handel, Food Sci. & Tech. — Faculty position at Drexel University, Philadelphia, Pennsylvania.

Carol Long, Food Sci. & Tech. — Research position in product development at General Nutrition Mills, Inc., Fargo, North Dakota.

Gary Peterson, Agronomy — Research and teaching position at Colorado State University, Fort Collins, Colorado.

Stan Wallen, Food Sci. & Tech. — Chief microbiologist at Harris Labs, Lincoln, Nebraska.

FORESTRY FIELD DAYS - HORNING FARM

The 25th year of forestry research at the Horning Farm will be noted during the Field Days at the farm scheduled for Saturday, September 29, and Sunday, September 30. The field days, sponsored by the UNL Department of Forestry, Fisheries and Wildlife and the Rocky Mountain Forest and Range Experiment Station, USDA Forest Service, Lincoln, will feature exhibits from 11:00 a.m. until 2:30 p.m. on both days. For additional information, contact **Rich Lodes** or **Dennis Adams** at 472-3674.

SPLINTER RECEPTION AND SEMINAR

W. E. Splinter, George Holmes Professor and Head of Agricultural Engineering Department, will be inducted into the National Academy of Engineering on October 3, 1984, in Washington, D.C.

In recognition of this outstanding professional accomplishment, the Agricultural Research Division is hosting a special reception for him at the Nebraska Room of the Nebraska Center for Continuing Education on Friday, October 26, 1984. The reception will start at 2:30 p.m. and he will present a special seminar at 3:00 p.m. The public and all faculty and staff are cordially invited to attend.



**RESEARCH GRANTS AND CONTRACTS
RECEIVED
AUGUST, 1984**

<i>Agronomy</i>	
Jawson, M. — Center for Rural Affairs	\$ 6,100
Miscellaneous Grants Under \$5,000 each	29,781
<i>Animal Science</i>	
Britton, R. A. - USDA/ARS	39,000
Miscellaneous Grants Under \$5,000 each	12,400
<i>Center for Agricultural Meteorology and Climatology</i>	
Blad, B. L. - NASA	15,000
<i>Entomology</i>	
Miscellaneous Grants Under \$5,000 each	6,000
<i>Food Science and Technology</i>	
Miscellaneous Grants Under \$5,000 each	1,200
<i>Horticulture</i>	
Miscellaneous Grants Under \$5,000 each	9,420
<i>Plant Pathology</i>	
Miscellaneous Grants Under \$5,000 each	5,800
<i>Veterinary Science</i>	
Amend, J. F. - Eli Lilly and Company	12,200
Ferguson, D. L. - Michigan State University	27,571
<i>Northeast Research and Extension Center</i>	
Miscellaneous Grants Under \$5,000 each	13,370
<i>Panhandle Research and Extension Center</i>	
Wilson R. G. - ICI Americas, Inc.	6,000
Miscellaneous Grants Under \$5,000 each	14,900
<i>South Central Research and Extension Center</i>	
Miscellaneous Grants Under \$5,000 each	14,550
<i>West Central Research and Extension Center</i>	
Hudson, D. B. - Merck and Company, Inc.	10,000
Miscellaneous Grants Under \$5,000 each	3,650
Total	226,942

**CHANGE IN FRINGE BENEFIT RATE FOR
FIGURING GRANT PROPOSALS**

One direct cost item often excluded in proposal budgets is personnel salaries and wages for employees who will be paid from the award. For any salary included in the budget, fringe benefits must also be included as a direct cost. Fringe benefits consist of, at a minimum, the University's contribution of Social Security (FICA), life insurance and health insurance; and, for many employees, there is also TIAA/CREF.

For graduate students, the fringe benefits are used to pay tuition remission costs. Effective immediately, and until further notice an average rate of **19 percent of all salaries and wages** should be included in proposal budgets. The increase from last year is due to an increase in the University's contribution to health insurance.

GILLEY'S FACULTY DEVELOPMENT LEAVE

James R. Gilley (Agricultural Engineering) spent from March through August of 1984 at the Catholic University of Leuven, Belgium, as a visiting professor in the Faculty of Agricultural Sciences. He taught a portion of an international graduate irrigation course and worked with the agricultural engineering faculty on water management research projects involving computer modeling.

He found, "The normal professional activities of conducting research, reading the current literature and working with graduate students, all free from the normal interruptions one experiences at home, were extremely worthwhile."

Meeting other professionals, sharing experiences and developing friendships with people who truly enjoyed sharing their work and their country were also rewarding experiences for Gilley and his family. Gilley felt the success of his leave was greatly dependent upon the faculty of the host university. His family joined him in May and their favorable experiences were an important component of the leave.

His conclusion: "It is often difficult, in many ways, to leave one's program for six months to a year but I feel my leave has been beneficial to me, my family and the University. I would encourage other Institute faculty to make use of the faculty development leave program."

If computers get too powerful, we can organize them
into a committee. That'll do them in!

—Bradley's Bromide