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.

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

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.

The Agricultural Research Division provides information and educational programs to all people without regard to race, color, national origin, sex or handicap.
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 The Influence of Mycorrhizae on the Productivity of Field Crops 6,750

D. H. Yocum
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:

For Support From:       Deadline
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:

For Grants Beginning:    Deadline
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.

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 Chesnain        Agronomy

FACULTY RESIGNATIONS

The following faculty with Agricultural Division appointments have resigned:

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

Agronomy
Jawson, M. — Center for Rural Affairs
Miscellaneous Grants Under $5,000 each
$ 6,100

Animal Science
Britton, R. A. - USDA/ARS
Miscellaneous Grants Under $5,000 each
39,000

Center for Agricultural Meteorology and Climatology
Blad, B. L. - NASA
15,000

Entomology
Miscellaneous Grants Under $5,000 each
6,000

Food Science and Technology
Miscellaneous Grants Under $5,000 each
1,200

Horticulture
Miscellaneous Grants Under $5,000 each
9,420

Plant Pathology
Miscellaneous Grants Under $5,000 each
5,800

Veterinary Science
Amend, J. F. - Eli Lilly and Company
12,200
Ferguson, D. L. - Michigan State University
27,571

Northeast Research and Extension Center
Miscellaneous Grants Under $5,000 each
13,370

Panhandle Research and Extension Center
6,000
Miscellaneous Grants Under $5,000 each
14,900

South Central Research and Extension Center
Miscellaneous Grants Under $5,000 each
14,550

West Central Research and Extension Center
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