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Agricultural Experiment Station News March 1972

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UNIVERSITY OF NEBRASKA
COLLEGE OF AGRICULTURE
THE AGRICULTURAL EXPERIMENT STATION

E. F. FROLIK, DEAN
R. W. KLEIS, ACTING DIRECTOR

Agricultural Experiment Station



Vol. 4, Number 9, March 1972

FROM THE DIRECTOR'S DESK

1. Dean Frolik plans, in the several months ahead, to devote most of his time to making studies and developing plans for the College of Agriculture. Some of you will be called upon to assist in making the studies and in doing the planning. The full cooperation of the Experiment Station staff will be needed in this important undertaking.
2. The College of Agriculture and College of Home Economics Advisory Council met on East Campus February 27-28, 1972. State Senators and their wives were guests of the Council members for a dinner meeting on Sunday evening. Governor J. J. Exon, Dr. Gus Lieske, Director of Administrative Services for Nebraska, President D. B. Varner and Chancellor James Zumberge were among the Monday morning speakers. President Varner summarized "Toward Excellence" the five-year development plan for the University of Nebraska. The afternoon program was unstructured with the time used for discussion of the morning speeches and other important topics.
3. Mr. Del Weed and Earle Brown, Division of Environmental Health and Safety, University Health Services, will be visiting North Platte on April 6 and Scotts Bluff on April 7 to conduct a four-hour first-aid program so that as many employees as possible in the area can be trained in first-aid. People from Alliance and Sidney will attend. Similar programs have been, or are being planned, for other outstate units.
4. To protect the safety and welfare of people who are subjects of research and to protect the researcher and his institution against liability when human subjects are involved in a study, each proposed project supported by USDA funds must be reviewed and approved by an appropriate committee. Procedures for complying with the USDA policy are being considered and will be transmitted to you as soon as they are developed.
5. Each project leader should inform Field Laboratory Headquarters whenever a tour, field day, or any other event is scheduled where outside people are involved at the Lab. In many instances, visitors will plan to stop at the headquarters for information and directions to the site. The Field Laboratory Headquarters has available descriptive brochures, voice amplifiers, and other needed aids and facilities.
6. Over 250 persons representing both public and private interests attended a two-day Nebraska Water Resources and Irrigation Development Seminar at the Nebraska Center on March 2-3, 1972. President Varner closed out the conference by suggesting that a similar group should meet once a year and appointed a 25-member Planning Committee to assist in bringing together these various interests. Congratulations to Les Sheffield and his committee for a job well done.
7. Just a reminder that the annual public auction sale of surplus equipment is being held at the University of Nebraska Field Laboratory south of Mead, Nebraska, on Tuesday, March 28, 1972, starting at 10:00 a.m. The auction is held annually as a means of disposing of items of furniture, supplies, equipment, motor vehicles, farm machinery, etc., surplus to the needs of the University and the State of Nebraska.
8. Just a reminder that travel requests should be in this office at least 10 days (preferably 2-3 weeks) ahead of your scheduled departure.

(over)

PERSONNEL ACTIONS

Doupnik, Benjamin L., Jr. - Assistant Professor of Plant Pathology (appointment)
 Verma, Shashi B. P. - Postdoctoral Fellow in Horticulture & Forestry (appointment)
 Lemeur, Raoul - Postdoctoral Fellow in Horticulture & Forestry (appointment)
 Mather, Floyd B. - Assistant Professor of Poultry Science and Assistant Professor of
 Animal Science (additional appointment)

STAFF PROMOTIONS - 1972

The following actions were approved by the Board of Regents on March 11, 1972. We congratulate each staff member for promotion in rank and/or tenure effective July 1, 1972.

Andersen, Lloyd W., Assistant Professor W/T to Associate Professor W/T (Entomology, SB)
 Dreier, August F., Associate Professor W/T to Professor W/T (Agronomy)
 Eastin, Jerry D., Associate Professor W/T to Professor W/T (Agronomy)
 Elliott, Lloyd, Assistant Professor to Associate Professor (Agronomy)
 Holman, Jay P., Associate Professor W/T to Professor W/T (Information)

Johnson, Ralph, Instructor to Assistant Professor (Ag. Economics)
 Kerr, Eric D., Assistant Professor to Assistant Professor W/T (Plant Pathology, SB)
 Maranville, Jerry, Assistant Professor to Associate Professor (Agronomy)
 Newkirk, Gwendolyn, Professor to Professor W/T (HE Education and Family Resources)
 Nichols, James T., Associate Professor to Associate Professor W/T (Agronomy, NP)

Satterlee, Lowell D., Assistant Professor to Associate Professor W/T (Food Sci. & Tech.)
 Stair, Ernest Lee, Jr., Associate Professor to Associate Professor W/T (Veterinary Science)
 Staples, Robert, Associate Professor W/T to Professor W/T (Entomology)
 Stonecipher, Charles L., Associate Professor W/T to Professor W/T (Ag. Education, SC)
 Turner, Michael S., Associate Professor W/T to Professor W/T (Ag. Economics)

Ward, Callie J., Associate Professor W/T to Professor W/T (Ag. Education, NE)
 Williams, James H., Associate Professor W/T to Professor W/T (Agronomy)
 Zimmerman, Dwane R., Associate Professor W/T to Professor W/T (Animal Science)

GRANTS AND CONTRACTS

Arnold, R. G. - Food Science & Technology - Miscellaneous Donors	\$ 110
Brakke, Myron K. - Plant Pathology - National Science Foundation	20,100
Burnside, Orvin C. - Agronomy - Miscellaneous Donors	500
Campbell, John B. - North Platte - Miscellaneous Donors	450
Campbell, John B. - North Platte - Chemagro Corp.	1,500
Danielson, D. M. & R. G. White - North Platte - Smith, Kline & French Labs.	6,500
Klopfenstein, Terry - Animal Science - Miscellaneous Donors	1,033
Nichols, J. T. - North Platte - Peerless Plastics	4,143
Olson, Robert A. - Agronomy - Phillips Petroleum Co.	3,600
Trotter, V. Y. - Home Economics - Nebraska Heart Association	300
Twiehaus, M. J. - Veterinary Science - Miscellaneous Donors	100
Van Etten, James L. - Plant Pathology - Public Health Service	23,029
White, R. G. - North Platte - Miscellaneous Donors	225

NEBRASKA AGRICULTURAL EXPERIMENT STATION PUBLICATIONS - February 1972

3336. On the Pressure Chamber Technique for Estimating Leaf Water Potential in Sorghum. A. Blum, C. Y. Sullivan and J. D. Eastin. *Agronomy Journal*.
3337. Changes in Soluble Ribonucleic Acid Polymerases Associated with the Germination of Rhizopus stolonifer Spores. Cheng-shung Gong and James L. Van Etten. *Biochimica et Biophysica Acta*.
3338. Consequence of Additional Ova to Variation in Litter Size in Swine. Dwane R. Zimmerman. *Journal of Animal Science*.
3339. Early Adolescent Income and Spending Patterns. Karen Tucker and Florence S. Walker. *Journal of Consumer Affairs*.
3340. Electron Microscopy of Unstable Inclusions Induced in Maize Dwarf Mosaic Virus. Willem G. Langenberg and Helen F. Schroeder. *Virology*.
3341. Electric Shears for Plot Harvesting. L. A. Daigger. *Journal of Range Mangement*.
3342. Nomenclature of the Enzymes of Bovine Milk. K. M. Shahani, W. J. Harper, R. G. Jensen, R. M. Parry, Jr. and C. A. Zittle. *Journal of Dairy Science*.
3343. Autoxidation of Crystallized and Crude Turkey. G. W. Froning. *Poultry Science*.
3344. Management of Ground Water. Loyd K. Fischer. *Nebraska Journal of Economics and Business*.
3345. The Pathogenesis of Mycoplasmal Pneumonia in Swine. C. W. Livingston, E. L. Stair, N. R. Underdahl and C. A. Mebus. *American Journal of Veterinary Research*.
3346. An Assessment of Applied Biological Science Interests of Seventh Grade Students. Roy D. Dillon and Robert W. Walker. *Journal of the American Association of Agricultural Teacher Educators*.
3347. Effects of Mass Selection and Irradiation in Corn Measured by Random S₁ Lines and Their Testcrosses. R. E. Harris, C. O. Gardner and W. A. Compton. *Crop Science*.
3348. Isolation Unit and Procedures for Obtaining Gnotobiotic Calves. C. A. Mebus, N. R. Underdahl and M. J. Twiehaus. *American Journal of Veterinary Research*.
3349. Cattle Grub Insecticide Efficacy and Effects on Weight Gain Performance on Feeder Calves in Nebraska. J. B. Campbell, Walter Woods, A. F. Hagen and E. C. Howe. *Journal of Economic Entomology*.
3350. Differences in Parental Value Profiles: Another Look at Liberalism-Traditionalism and Selected Demographic Correlates. Jacqueline H. Voss. *The Family Coordinator*.
3351. Prophylactic Efficacy of Nifursol Against Different Levels of Exposure to Histomoniasis in Turkeys 4 to 9 Weeks of Age. T. W. Sullivan, R. J. Mitchell and O. D. Grace. *Poultry Science*.

3352. Effect of Slotted Floors on Air-Flow Characteristics in a Model Swine Confinement Building. D. D. Schulte, J. A. DeShazer and C. N. Ifeadi. Transactions of American Society of Agricultural Engineers.
3353. Identification of Experiences in Applied Biological Science and Agribusiness of Seventh Grade Students. Roy D. Dillon and Glenn Z. Stevens. Vocational Guidance Quarterly.
3354. Influence of Wheat Variety upon In Vitro and In Vivo Lactate Levels. Larry W. Varner and Walter Woods. Animal Science.

ABSTRACTS

- 72-10. Fluctuating Patterns of Ovine Serum LH and the Influence of Testosterone. R. B. Osland, E. F. Ellington and M. D. Hoffman. Biology of Reproduction.
- 72-11. Glutamate Dehydrogenase from Haemonchus contortus. Marvin B. Rhodes and Donald L. Ferguson. 82nd Annual Meeting of the Nebraska Academy of Science Proceedings.
- 72-12. Nitrogen Fixation by Aerobically Grown Facultative Anaerobic Bacteria. Robert V. Klucas. Bacteriological Proceedings, 1972.

Bulletins Printed

- SB 518 White Mold Disease of Field Beans in Nebraska. J. R. Steadman, E. D. Kerr and J. L. Weihing.