

Seven NU Water Research Projects Financed By New Institution

Research efforts involving water, its behavior, use and many forms in nature, are being broadened and strengthened through the new Water Resources Research Institute at the University.

Eugene C. Reed, acting director of the Institute, said that seven projects are being financed as a result of the Water Resources Act passed by Congress in 1964. The federal allotment for the 1965-66 fiscal year is \$87,500.

Among the research efforts supported by the Institute is that of Dr. W. A. Scheller, associate professor of chemical engineering and Dr. Carl E. Georgi, professor and chairman of the department of microbiology.

Drs. Scheller and Georgi are investigating the potential of using microorganisms to produce electrical energy which, in turn, can be used to change brackish to fresh water.

The scientists are collecting and growing cultures of bacteria found in certain Nebraska ponds, organisms adapted to a brackish water environ-

ment. These organisms are believed to produce a certain enzyme which in turn might be used successfully in a fuel cell to furnish electricity to produce fresh water.

Still another Institute supported effort is that of Dr. Norman J. Rosenberg, associate professor of agroclimatology in the department of horticulture and forestry, and Hoyt Hart, a meteorologist and instructor in the department.

Dr. Rosenberg and Hart are studying soil moisture losses in the Great Plains effected by solar (sun) energy, winds and plant life.

Their research will involve the use of lysimeters, a complex soil weighing device which will reflect very small moisture changes in the earth. The research goals include an analysis of the physics involved in moisture loss, and the formulation of general principles which will enable a prediction of such losses under variant conditions everywhere and especially for irrigation practices in the Great Plains.

Clayton Yeutter, instructor in agricultural economics and an attorney, is investigating the administration of water law in six midwestern states with the aid of Institute funds. His research is directed at determining efficient methods of underground and stream water administration by various agencies and courts.

Other Institute supported projects:

—Dr. Turgut Sarpkaya, Regents professor of engineering mechanics, is studying the water storage effects of stream beds and banks.

—Dr. E. J. Kinbacher, associate professor of horticulture and forestry, is researching the internal water status of certain plants. Co-investigators in the project are Dr. C. Y. Sullivan, assistant professor of horticulture and forestry, and Dr. J. D. Eastin, assistant professor of agronomy.

—Dr. H. D. Wittmuss, associate professor of agricultural engineering, is investigating the engineering phases of land movement for water conservation.

Sheldon To Present Short Films

Sheldon Art Gallery will be presenting another in a series of "short films of various kinds, reflecting a wide variety of subjects and techniques and representing some of the most creative talent in contemporary film making" on Sunday afternoon, Feb. 20.

Five films will be shown at that time spanning a variety of countries and subjects.

The films include:

- The Jinx, by Luigi Zampa, an Italian comedy featuring Toto.
- The Interview, by Ernest

Pintoff, a color animation featuring Henry Jacobs and Woodrow Leifer. The music will be done by jazz-musician Stan Getz who played to a large crowd of University students in front of Sheldon in September 1964.

—The Reality of Karel Appel, by Jan Vrujman, providing an impression of the Dutch action painter at work in his Paris studio, with music by Appel and Dizzie Gillespie.

—Momma Don't Allow, by Karel Reisz and Tony Richardson, an on the spot study of typists, students, butcher

boys, dental assistants and shop girls dancing to the music of Chris Barker's band.

—Orange and Blue, by Peter and Clare Chermayeff, music by Joseph Papposo, produced at the Film Study Center of Harvard University. Two large balls, one orange, one blue, visit a junk and surplus yard in a charming and witty experimental film.

Tickets may be secured directly or by mail from the art shop of the Sheldon Art Gallery. Single admission is 50 cents for adults and 25 cents for children under 12 years old.

Seniors Enthused About University

A little starry-eyed, excited, extremely interested and wide awake—doesn't sound like the normal University student, but it does describe the over 700 high school seniors who visited the University Saturday.

John Aronson, director of admissions, said that this was thought to be the largest group of Nebraska high school seniors ever to attend a traditional Senior Information Day at the University.

He noted that the Saturday program included mostly students from the Omaha-Bellevue area. In addition high school groups also attended from Osmond, Seward, Greeley, Holdrege, Oakland and Lincoln.

Comments from the future University students as they toured the halls, visited classrooms and heard lectures were many and varied.

One Omaha Central girl's only comment was a loud, "I like it." When asked what she liked about it, she wasn't sure, but she did insist that she couldn't wait to be a part of it.

Another Omaha Central girl praised the library in stating that the "library is pretty good especially since it's so large."

A Westside boy, John McCollister had praise for the

information he had received on the English program and thought it would be great reading books "and concentrating more on the subject than the composition."

In addition to University professors and graduate students, undergraduate students who volunteered their time for the project included the members of the Nebraska Human Resources Research Project, and student representatives from all sororities and fraternities on campus.

Aronson said he was highly gratified that so many Nebraska youngsters are taking advantage of the special program in which they are given the opportunity to experience something of university-level study and college life.

He said that the seniors showed heavy preference for lectures and information concerning such subjects as psychology, English and mathematics.

The students, he explained, heard lectures in a number of areas and had the opportunity to meet the dean of the college in which they plan to enroll.

"There were more Omaha area students taking part in this single program than there were students attending from all over Nebraska in 1962," Aronson said.

ASUN Senators Entertain Curtis

ASUN senators and associates will meet with U.S. Senator Carl Curtis at a coffee 3:30 p.m. Monday in the Nebraska Union.

"It will be rather an informal get-together," said Cathy Shattuck chairman of the ASUN Senators committee, "where the students and Sen. Curtis can just sit around and get acquainted. Anyone who is interested in meeting the Senator is welcome."

She added that Curtis is making the trip for the express purpose of meeting with and talking to University students.

Lutheran Students Study Contemporary Theology

A group of approximately 20 University students, all members of the Lutheran Student Association, returned Monday from a week-end course in contemporary theology.

The students visited the Ecumenical Institute in Chicago.

Phil Boardman, president of the church group, explained that at the institute the students study contemporary theologians and "are offered a new look at religion."

direct connotation between religion and the world we live in today," he said.

He noted that the institute stresses the fact that "one must choose a goal and then structure one's life toward that goal."

He said the institute has a permanent staff of twenty-one families who live in a communal type situation.

Boardman said that about eighty students from Lincoln have visited the institute during the last year.

Museum Trades Camel Skeletons

The University museum is in the process of exchanging two camel skeletons for a tiger, a wolf and a tarpool.

Dr. C. Bertrand Schultz, director of the museum, said that the University was exchanging the Nebraska camel skeletons with a Los Angeles museum for a saber tooth tiger, an ice age wolf and a Ranchola Brea tarpool.

He noted that the museum continually trades and exchanges with other museums throughout the world.

Tractor Lab Sets Mark

The University's tractor testing laboratory, which has tested more tractors than any other lab in the world, set a record total of 55 tractors in 1965.

This was the largest number of tractors tested since the facility was established in 1920.

Among the 55 tractors were four English models, several American models with English engines, and a Japanese model. The Japanese tractor was the first from Asia to be tested at the Nebraska laboratory.

"We expect it to be the first of many," Frank Zoz, instructor of agricultural engineering and tractor testing at the University, said.

The Nebraska lab, the only one operated by a university in the United States, has tested a total of 931 tractors since it was first started.

Included in this figure are tractors from Poland, Czechoslovakia, Sweden, Italy, France, Germany, Canada and England.

The Nebraska tractor testing laboratory is the result of a Polk County state senator's disappointment with his tractor. He felt that its performance did not meet the manufacturer's claims, and proposed a bill calling for measurement of performance by an unbiased authority.

The senator's bill received only one negative vote from his fellow legislators. The bill stipulated that before a model of a tractor could be placed on the Nebraska market, a corresponding model must be tested at the University lab.

The tractor company also had to maintain stocks of repairs and parts in the state for any tractors it sold in Nebraska.

Medical Exams To Be Monday

Medical examinations for those who want to participate in spring sports will be given at the University Health Center at 7:30 p.m., Feb. 28. Those wishing to participate in spring sports must be there.

Ag Researchers Contribute To Text

Two University scientists are co-authors of chapters in a textbook that has become known as the most complete and authoritative in its field. The book is "Forages," published by the Iowa State Uni-

versity. Dr. L. C. Newell, researched chapters on bromegrasses and on hay and pasture seedings for the northern Great Plains. Dr. H. J. Gorz, research geneticist and professor of agronomy, contributed to the chapter on sweetclover.

The 707 page volume was edited by H. D. Hughes of Iowa State University. Maurice E. Heath of Purdue University and Darrel S. Metcalf of the University of Arizona.

Its 64 chapters, revised to include the most recent developments in forage crops, cover the origin, history, adaptations, improvement, characteristics, varieties and strains, utilization, stand establishment, seedbed preparation, and place in rotation of forage crops throughout the United States.

It was first published 15 years ago and has since gained an international reputation.

NU To Receive Industry Grants

The 3M Company of St. Paul, Minn. has announced that the University of Nebraska will receive \$6,800 from them as an annual part of their aid-to-education.

The University, according to the announcement, will receive \$5,800 for technical grants-in-aid for electrical engineering and chemistry, and \$1,000 for undergraduate technical scholarship use.

The announcement said that the scholarships are awarded at the direction of the University and may be used for one or more qualified students.



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