

Hybrid Wheat Studies Fill New Greenhouse

The 2,400 pots of wheat in the new wheat greenhouse on the Ag College campus of the University go a long way toward explaining the need for the new facility. The greenhouse was officially presented to the University this week by Ak-Sar-Ben.

It doubles the Nebraska capacity for developing the

Fedde Hall Out Tugs Burr Hall

Squealing pigs, egg hair- does, and straining muscles signaled the beginning of games, a picnic and a dance at the All-Ag Picnic Friday night.

Fedde Hall girls "pulled through" to victory as they defeated Burr Hall boys to win the tug-of-war championship.

It was a double shock to the defeated boys—once when they found they had lost to the weaker gender, and second, when they hit the electric fence that signaled their defeat!

"What will these humans think up next?" seemed to be the attitude of the twelve well-greased porkers, when they found themselves being chased around by seven coeds. No doubt they had quite a story to tell the rest of their large family when they were returned home.

Donna Hanna was the first to grab a greasy pig. Marilyn Fuhrman was second.

Natalie Haha got an egg shampoo, but she and her partner, Ron Ferris, came out the winners in the egg tossing contest.

A faceful of chocolate pie and whipped cream was the prize for those brave enough to try to eat a chocolate pie with no hands. One little boy, who could barely reach the table top, found that fingers worked better and dug in, ignoring the rules.

Carolyn Cilek won the girls event; Gail Warren, the children's; Warren Sahs, the faculty division; and Dale Travnicek, the boys' division. After downing another chocolate pie, Travnicek and Miss Hanna were awarded the prizes as grand champion pie-eaters.

Alpha Gamma Rho found that girls aren't as light as a feather, but they carried one across the finish line to win the piggy-back relay.

Alpha Gamma Sigma had the best time of 2:27 minutes in the bale stacking contest, and Ann Shooster won the children's straw hunt.

A picnic supper and street dance followed the games. An estimated 450 people attended the annual event.

many lines of wheat that will lead, scientists believe, to the promised land of hybrid wheat.

This wheat, they trust, will have the vigor and other qualities to add millions of dollars to the state's agriculturally based economy.

The greenhouse was presented by Jess Thurmond, 1964 King of Ak-Sar-Ben, as a gift from the Omaha Civic organization to the University and the people of Nebraska in recognition of the need to speed the development of a hybrid wheat adapted to Nebraska conditions.

Dr. Virgil Johnson and Dr. John Schmidt already have the new greenhouse up to full capacity.

It doubles the amount of materials with which they can work, and thereby doubles their chance of quickly developing lines of wheat which will lend themselves to hybridization.

The greenhouse resulted from Ak-Sar-Ben's recognition of the importance of following through on the pioneering Nebraska research effort in hybrid wheat.

The Ak-Sar-Ben action is being reinforced by a committee of the Nebraska Crop Improvement Association. The committee, headed by Honor Ochsner, Madison farmer and businessman, is carrying on a campaign to provide funds to support the expanded hybrid wheat development program.

The Crop Improvement Association is aiming for about \$25,000 a year in volunteer contributions for at least five years.

A five year program is not expected by Johnson and Schmidt to produce the hybrid wheat Nebraska farmers would like to have for their fields, but should take the development nearly half way.

While declining to predict exactly, the scientists say development of the first hybrid wheat safely certifiable for Nebraska could take as long as 10 to 12 years.

The steps that may eat up the time are: Converting desirable lines of wheat to stable carriers of the male sterile and fertility restorer genes.

Increasing the seed stocks to quantities needed to make hybrids and test them in the field (10 to 20 pounds).

Field production and quality evaluation of the resulting wheat.

Seed increase and final evaluation by processors.

One of the big time-consumers, the scientists say, is the need to back-cross a desirable strain into which the sterility or the restorer genes are being transferred until the characteristics which made the strain desirable in the first place are all recovered.

This can take as many as seven back crosses.

Unfortunately for Nebraskans, the hard red winter wheat which they grow needs the same season for development in a greenhouse as it would outdoors. However, the greenhouse is necessary be-

cause controlled growing and fertilization conditions are needed for efficient large scale crossing efforts.

In spring wheats, more than one crop a year can be produced in a greenhouse, thus the likelihood is that a hybrid spring wheat will be developed before a hybrid hard red winter wheat, the scientist said.

Once the first hard red winter wheat hybrid is developed, however, the numbers of hybrid wheats adapted to Nebraska should increase rapidly, Schmidt and Johnson said.

This is because a large number of lines will be under development simultaneously. The time factor involved in their development means that when one is perfected, many others should be perfected at nearly the same time.

This is when the scientists' dream of being able to quickly adapt wheat to changing conditions will come about.

With the numerous breeding materials at hand, they will be able to quickly transfer a desired character from one to another, thus meeting both disease and insect threats and demands for changes in quality.

Both Schmidt and Johnson are quick to point out, however, that there is no guarantee at this time that the hybrid wheats they may develop will produce enough more or be available as seed at a cheap enough price to be a paying substitute for conventional wheats.

In addition, they remind, the hybrid wheat breeding program will not replace the regular breeding program that has been carried on over the years.

The conventional breeding program, Johnson and Schmidt said, is necessary as a base from which the lines carrying the characters needed in the hybrid program will be continually developed.

Campus Calendar

TODAY
PANHELLENIC will meet at 4:30 p.m. in 332-334 Union.
ASSOCIATION FOR CHILDHOOD EDUCATION (ACE) will meet at 4:45 p.m. in 200 Teachers College.
TASSELS will meet at 5 p.m. in 232 Union.

Medical Student Conference Guest

Roy Neil, a junior medical student at the University College of Medicine, has been invited to attend the first conference on Contemporary Research in Pathology.

The conference, sponsored by the Inter-Society Committee for Research Potential in Pathology, is being conducted at the Armed Forces Institute of Pathology.

Neil has been awarded two National Institute of Health summer research fellowships during his medical school career. In 1962 he conducted research on cystic fibrosis in the department of pediatrics, and last summer he studied liver disease in the department of pathology and internal medicine.

Four Give Views On Council Issues

Four of the five male candidates running for Student Council from Teachers College favor more student participation in Council affairs and issues. The fifth candidate, Thomas Murphy, did not submit his platform views to the DAILY NEBRASKAN.

Eight women candidates' platform ideas will appear Wednesday.



Samuelson Teachers Hayes Teachers

Charles Samuelson says of Council representation "a thorough examination" of an organization's relationship to "a substantial number of students" should be made.



Hultquist Teachers Diekmann Teachers

"As for the merit of the present system itself, it is designed to bring forth the most talented and most interested students, and therefore is good," Samuelson says. Samuelson, who has a 6.1 average, calls for a "more coordinated relations between the students and the faculty."

body relations could be strengthened by "Student Council Bulletin Boards and the setting up of an information distribution system in the 'Crib'.

Bill Hayes

"The present representation system," says Bill Hayes, "which includes organizational reps is unfair, on the grounds that while each student is represented at least once, some students theoretically may have representation eight times.

Henry Hultquist, with a 6.4 over-all average, says the Council must express "for the students sometimes." Hultquist says, "Oftentimes the students opinions are formulated by the Council." He calls for more definite stands on city and state policies affecting students.

Hayes, who has a 5.1 cumulative, feels Council - student

Hinshaw Presents Recital

Harvey Hinshaw, associate professor of music at the University will appear in a faculty recital tomorrow at 7:30 p.m. in the Nebraska Union ballroom.

The performance is open to the public.

Professor Hinshaw will play three major works, "Sonata in C Major (1791)" by Haydn; "Contrapunctus XIX," (unfinished) from the "Art of the Fugue," by Bach; and "First Sonata," by Ives.

Hinshaw has been with the University since 1956 and came with an extensive professional career. He was concert pianist and accompanist to Albert Wilcox, bass-baritone, in more than 500 programs in the western United States in the years 1950-51.

Before coming to the University, he was Igor Gorin's accompanist and soloist for Gorin's concerts. He also has appeared with John Charles Thomas, both in his concerts and as an accompanist in his teaching.

His formal education was obtained at Pasadena Junior College, Occidental College, and the University of Southern California.

"The Student Council should seek to come to an understanding with Administration as to whether Administration is representing the student body on such matters as the recent Lincoln City Council decision on the re-definition of family," Hultquist said.

Bob Diekmann

Bob Diekmann, with a 5.0 average, notes that "the representation system seems to be working quite well at this time." He says activities representation "might be revised." Diekmann also supports a constitutional convention "because it hasn't even been questioned in the last ten years."

Diekmann calls for more active interest of his Teachers College students.

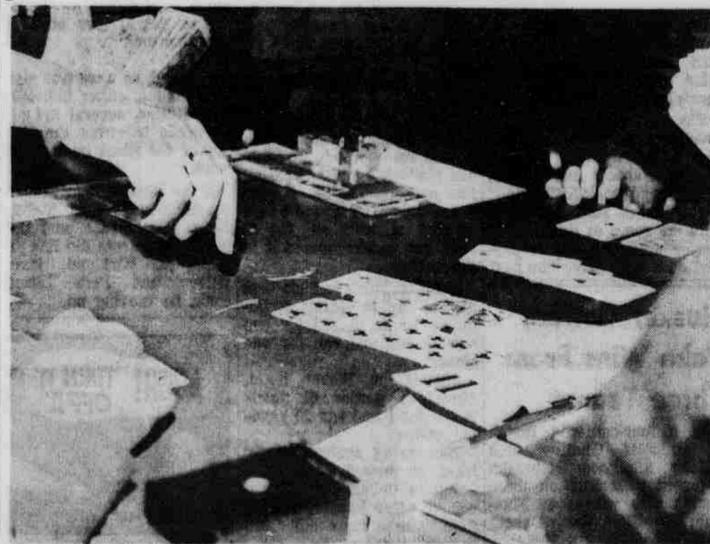
Horner To Participate In Research Seminar

Dr. James Horner, associate professor of vocational education, has been selected by Dr. Walter Arnold, U.S. assistant commissioner of education, to participate in a research seminar at Pennsylvania State University this week.

Horner is one of eight agricultural educators in the nation who were selected on the basis of "assigned responsibility and research capability."

The one-week seminar provides advanced training in skills for experimental research in vocational education.

HANDS ACROSS THE TABLE



YOU'RE THE DUMMY — Eager fingers guided the fall of the cards at the first annual Delta Tau Delta bridge tourney.

PHI PSIS WIN TOURNEY

Delts Hold Bridge Meet

The first annual Delta Tau Delta Bridge Tournament found great enthusiasm and success Saturday when twenty-six houses participated in the event.

Russell Joynt, alum adviser for the Delts, said that he was very pleased with the turnout and participation. He was very impressed that the teams were careful to follow the rules and that they showed good sportsmanship throughout the tournament.

An orientation meeting was held Wednesday because most of the players had not played tournament bridge before. Joynt said that even though this was new for many, everything went very smoothly

and no major difficulties arose. He said that it did take a little longer than usual to tally the scores because some of the players were a little confused about the different scoring method.

The first playing session began at 9:30 Saturday morning and ended at 12:30. Lunch was then served to the players, and at 1:30 they again began the long hours of concentration. A total of fifty six hands of bridge were played by each team and by 4:30 the last hand was laid down.

Three traveling trophies were given to the top three teams and also individual trophies were given to the members of these teams. First

place went to the Phi Kappa Psi team composed of Sid Stacey and Tom Henrion. Second place honors went to Beta Theta Pi represented by Bob Kvaall and Jim Gleason.

Third place went to Delta Upsilon whose team consisted of Bernie Childerston and Joe Watkins.

The Gamma Phi Beta team, of Diane Housel and Sandy Moody was first in sororities. Judges for the contest were Delt alum advisers Joe McWilliams and Joynt. Directing the affair was Hal Erwin. The luncheon and all arrangements were handled by Jim Ens.

The Delts plan to make this an annual event.

Nebraskan Want Ads

JOBS:
Summer job as counselor at Western Boys' Camp in New Jersey available for interested students. Season from June 22 to August 22. Write or contact Keith Bambrick at 1408 S. 118th, Omaha, Nebr., phone 333-6172.

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We are seeking young men between 21 and 28 to train for Management of Branch Offices. Openings in Fremont, Norfolk, Lincoln, and Omaha. We can place men with one or more years of college. This is the ideal position for the student who is in good scholastic standing, but is unable to continue in school. Several positions also available for college graduates. These positions offer:
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ATTENTION:
Would the person who took the wrong trench coat from the Union music room last Friday afternoon, please contact the Daily Nebraskan office.

FOR RENT:
Instructor desires to arrange to sublet apartment for summer; 2-4 responsible students. Completely furnished from grand piano to Mexican pottery. See 1631 A St. apt. 2.

1961 Honda, excellent condition, reasonable. Call 434-1726. Evenings and weekends.

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