

# Research Project Started To Boost Tractor Power

The University has a research project underway which promises to boost the amount of power a farmer can get out of his tractor.

The agricultural engineering department is conducting tests on 15 tractors supplied by farmers in the Lincoln area. The tests, under the direction of Prof. C. W. Smith, are designed to give the exact adjustments to the engine to bring it to the peak of performance.

Professor Smith said very few farmers are now getting the maximum available power from their tractors. The tractors represent three different makes and they are being tested on the University tractor testing laboratory's dynamometer—an instrument not available in most repair shops.

### Power and Fuel

The engineers continue to make adjustments on the tractor until the engine comes up to its rated power. It's tested for fuel consumption as well as power.

After the tractor is examined and brought up to its top performance the machine is returned to the farmer. The engineers have fitted a carrier with a chart on which the farmer will keep a record of the tractor's service—fuel consumption, efficiency and repairs. Some of the tractors will have hour meters which will tell the engineers how long the tractor has been used.

Professor Smith said the data on the tractors will be summarized to help other farmers. "If we can boost the power output of the tractors by 2 per cent," he said, "there will be a



PUT PUT—The tractor test lab at Ag college tests all kinds of tractors—from small garden implements to 40,000-pound crawler types used for heavy construction. Here, a Choremaster, weighing 165 pounds, undergoes a drawbar check with lab assistant Henry Lentfer driving. (U. of N. Photo.)

substantial amount of money saved."

### Tests

The tests are being conducted during the time when the normal operations of the tractor testing laboratory have stopped for the winter. The tractor testing season starts March 1 and ends Nov. 30.

The tractor lab was set up in 1919 to protect Nebraska farmers. Manufacturers are unable to sell tractors in Nebraska unless a stock model of their machine passes a rigorous test at the Nebraska laboratory. A total of 18 tractors of all sizes were tested by the laboratory in 1950 alone.

# Fifty-one Colleges Registered For Debate Conference

Fifty-one colleges and universities have registered for the annual University Debate and Discussion conference to be held Feb. 23 and 24, Donald Olson, debate director, said Monday.

More than 300 students have signed up and entries are still arriving. Several more schools are expected to enter, Olson said that calls for entrance blanks are still coming in.

### Annual Affairs

Last year 50 schools participated in the two day conference with representatives from all over the country. The annual speech conference includes debate, discussions, oratory, extemporaneous speaking and radio newscasting.

"What should be the status of youth in the defense program of the future?" is the topic of three grounds of discussion. Debaters will argue the year's topic: Resolved: That the non-communist nations should form a new international organization.

Debate team entries now number 104 and about 200 have registered for discussion rounds. Entries in oratory number about 27, extemporaneous, 35 and radio newscasting, 28.

### University Entries

About 100 debate teams will enter from the University according to Mr. Olson. Thirty will be entered in the discussion groups in addition to individual entries. A special parliamentary session will be conducted in which su-

# Hanson Pleads For Talent Development

A plea to accept responsibility "to develop the talents the Lord has given us" was presented by Dr. Howard Hanson, director of the Eastman School of Music, at the third annual School of Fine Arts honors dinner Thursday evening, Feb. 15.

Hanson stated that we should take a responsibility in developing the arts in the United States as well as assisting other nations to develop the creative arts.

"Sometimes we get the core rather than the apple after we have graduated and received our degree," quoted Hanson. Few of us will make the "bright lights" with our artistic talents but we must all have faith and belief in our art.

"Those artistic persons presenting their art to the community must work with the people and material they have and communicate to those people honesty and sincerity."

Hanson concluded his speech on "Music in American Culture" saying, "The world as never before needs spiritual inspiration and beauty. I believe you as artists and musicians will make your contributions."

Certificates of honor were awarded to Kathleen Burt, Janis Crilly, Gerald Deibler, Kathleen Forbes, Janet Jensen, Gwen McCormick, Lois Nelson, Eugene Sundeen, Cynthia Tanderup, Sid Tingle, Dennis Vernon and Francis Wallace in their respective departments of art, music, speech and dramatic art. These honors were presented by Dr. Arthur Westbrook, dean of the School of Fine Arts.

# Plans for Soil Project Made At Ag Meeting

A stepped-up dryland soil research project will be underway for western Nebraska this spring. That's the word from Agronomist R. E. Ramig of the University's North Platte substation. He outlined the proposed research during the annual meeting of the University's outstate experiment station workers here Friday.

One of the main problems, he said, is maintaining organic matter in dryland soil. Researchers and farmers have been unable to do it with barnyard manure, green manure or varying rotations. Tests at the substation show, he added, that some of the dryland soil has lost 20 to 42 per cent of its organic matter between 1908 and 1934.

Research, Mr. Ramig said, is going to have to find ways to handle legumes better in order to get more nitrogen in the soil. Another problem, he added, is getting a balance between nitrogen and moisture. When there is too much nitrogen in the soil without adequate rainfall the crops will burn.

A stepped-up research program also is needed, he said, on the use of commercial fertilizers on native meadows to increase production.

Hugo O. Graumann, U.S. Department of Agriculture researcher at the University, new varieties of alfalfa which are suited for dryland pasture are in the offing. He said cooperative research with Canadian experiment stations had paid off in the project. New strains developed from that operation at the College of Agriculture, he added, show good possibilities.

Meanwhile, Mr. Graumann said, research is continuing to get better irrigated alfalfa varieties which are more resistant to disease, insects and cold and which have a greater yield capacity.

The substitution personnel continued their conferences with Lincoln campus personnel through Saturday morning.

# Communication Most Essential In Marriage, Says Palmer

"Marriage means the ability to communicate effectively."

So said Dr. Janet Palmer in her discussion of "Sexual Adjustment in Marriage" in the Union faculty lounge Monday afternoon. Dr. Palmer is the University lecturer on medical information for social work and acting director of the division of mental health at the state department of health.

"Communication is most important in marriage," stated Dr. Palmer. She said that learning to communicate, both verbally and nonverbally comes from the development of the five senses as far back as babyhood.

The ability to compromise, she said is directly associated with this communication. She asserted that it is not a one-way, but a two-way proposition.

"Communication is difficult," she said. "We get scared of our feelings." She recommended crying or swearing if it enabled better communication.

"Many youngsters grow up unable to communicate," remarked Dr. Palmer. She explained that muteness is an undesirable trait in this respect.

On the other hand, she warned that one member of the union should not do all of the talking or entirely dominate the other.

According to Dr. Palmer, the key to "disagreeing profitably" is the ability to communicate more effectively. She compared the United Nations to the family in this respect. She said the tendency was to get "clogged up with feeling" and to let "all theory go out the window."

"Marriage is a symbol of grown-upness," Dr. Palmer said. "It is a symbol of our tendency to be interdependent."

Following this up, she pointed to the dependency of one person upon another. She recommended the interchange of rings in the wedding ceremony as a symbol of interdependence. "We aim for interdependence rather than dependence," she stated.

Dr. Palmer believes that the man and the woman both play definite roles in marriage. She said that most people live in the "happily ever after" illusion as portrayed in story books.

"Mating is a skill," she said, "not a recipe you find in a cook book." She maintains that books deal only with a theoretical person and not the individual. Further, making marriage work

comes with practice. She compared the process to becoming proficient in golf or tennis.

The determination of whether to be married or not during wartime, Dr. Palmer offered one precautionary question: "Are you sure of yourselves?" Furthermore, she believes that the strength of communication, as in letter writing, plays a large part here. As an example of this thing, she pointed to the book, "South Pacific."

Dr. Palmer received her master's degree in psychology at Oberlin university and her Doctor of Medicine at Western Reserve university in Cleveland. She has attended the international congress on mental health in London.

This lecture was the third in a series of marriage relations discussions sponsored by the Union, YM and YW. The final lecture in the series, "Marriage in Wartime," will be Monday, Feb. 26. The speaker will be Dr. Kenneth Cannon, assistant professor of family relations at Ag college.

# AUF Pledges Due Friday; Goal, \$5,000

All students must fulfill their pledges to the All-University Fund before the 4 p.m. deadline Friday if this year's \$5,000 goal is to be reached.

Donations may be paid at booths in the Union Wednesday through Friday from 12:30 to 4 p.m. From 4 to 6 p.m. donations will be taken to Room 309 of the Union.

Representatives of the fund are also collecting delinquent pledges this week from University houses.

The following members of the AUF advisory and divisions boards will also accept donations: J. Lisher, Bill Dugan, Ginny Koch, Jan Lindquist, Gene Berg, Joel Bailly, Jody Loder, Tish Swanson, Sarah Fulton, Jackie Sorenson, Dick Billig, Gene Johnson, Kent Axtell, Anne Barger, Jackie Hoss, Bev Larsen, Ivy Slot and Marianne Kellogg.

The success of this year's campaign depends upon payment of these pledges made last fall. Friday, February 23, is the latest that such payments can be accepted for the fund.

AUF, an annual project at the University since 1943, supports the Community Chest, the World Student Service Fund, and the Crusade for Freedom. Its purpose is to protect students from excessive charity drives throughout the year.

# Basin Group Studies Local Problems at Ag

The Nebraska Coordinating Committee for Missouri Basin resource development considered local problems in connection with the Harlan reservoir at its meeting here last week.

A subcommittee of the group, headed by John Huehlsbeier of the U. S. Department of Agriculture at Lincoln, reported on its findings in interviews with farmers, town residents, county officials, business and professional men. The committee was formed to ascertain some of the local problems involved in the establishment and operation of large reservoirs.

Here is a thumbnail sketch of the problems involved as found by the committee: Limitation of amounts that can be paid for damages to property resulting from construction work.

Cost of moving, disturbance, or loss of income when homes, farms and other firms are displaced by the reservoir. Criticism of appraisal procedures.

The problem when only part of a farm is purchased. Recreation problems in reservoir development.

Necessary information for local people. Other members of the subcommittee include: Dan Jones, Roads and Irrigation department; Paul Gilbert, Game Forestation and Parks commission; Clyde Noyes, A. W. Epp and Norris Anderson of the University; B. H. Williams, Bureau of Plant Industry.

# Former NU Student To Enter West Point

A former University student, Paul Johnston, now a pre-law student at Peru State Teachers college has been accepted for West Point Military academy.

He will enter in July. Johnston, who is a junior, was a member of Delta Upsilon while at school.

# Mortar Boards Honor Alumnae

The Mortar Boards sponsored their annual Founders Day luncheon, Saturday, in the Union.

Mortar Board alumnae, besides 1951 members, attended. The present Black Masques honored the classes of '21, '31 and '41.

Ruth Small Pierce, 1924; and Gene Mitchell Grimm, 1949, were the speakers at the luncheon. Mrs. Pierce represented motherhood, Mrs. Grimm, careers. They told how their college and Mortar Board activities have effected their careers.

After the luncheon, alumnae had the opportunity of seeing the Mortar Board room in the Union. When some of them went to the University, there was no Union.

Nancy Porter, president of Mortar Board, gave the welcoming speech. Norma Chubbuck was in charge of the luncheon. Faculty alumnae who attended the luncheon included Miss Helen Snyder, Miss Marjorie Johnston and Miss Elsie Ford Piper.

# Brass Choir Will Present Public Concert

Progress will be demonstrated in at least two ways when the University Brass choir presents its public concert at 4 p.m. Sunday, Feb. 25 in the Union ballroom.

This is the annual concert for the 37-piece ensemble. It has earned a special place for itself since its organization as a unit of the University's ROTC Symphonic band.

The concert will show how far music for brass instruments has come since the days when silver cornet bands only occasionally varied their solid programs of marches with a waltz or operatic selection.

Among the numbers which the ensemble will play is a symphony composed especially for brass choir by Victor Ewald, and the three-movement "Suite in A Major" by McClay. The march tradition won't be neglected, however. The choir will play Darcy's "March of the Free Peoples."

John Blyth, assistant professor in piano at the University, will be soloist with the ensemble in two numbers, "Dreams of Olwen," by Williams, and "Prayer and Dream Fantasia," by Humperdinck.

Also featured will be a trombone quartet; playing Bennett's "Trombone Troubadours." Members include Robert Van Voorhis, Chadron; John Thornin, Neligh; Robert McPherson, Neligh; and Norman Rasmussen, Central City.

Dean Killion, music department staff member, is conductor of the Brass choir. He will be assisted by Robert Stepp, instructor in brass instruments at the University. The concert will be free.

# Little Man On Campus

by Bibler

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# Study Break ...



EVENING SNACK—Boß Tritsch, Jim Massey, Dick Hollander, Harold Hollander and Dave Noble crowd around the sandwich man as he makes his evening rounds to the organized houses on campus. Hungry students make the sandwich job a paying job for the salesman.

# Coeds to Hear Nursing Head

Irma Kyle, director of the University School of Nursing, will hold a discussion in Ellen Smith hall, Wednesday, Feb. 21 at 5 p.m. for all women interested in nursing or who are undersided about their careers.

Several nurses will accompany her from the University Hospital in Omaha to assist in the discussion and her conferences. She will be available for private conferences during the day and any women who would like to talk with her should make arrangements with Miss Augustine, assistant dean of women.

Miss Kyle and her staff will discuss the various aspects of nursing industry, public health teaching, school nursing, college jobs for nurses, dietetics work and hospital practice.

Girls who feel that they do not want to marry immediately after graduating and would like to work first, but do not know what jobs will be open for them with the course they are taking are of special interest to these guest speakers.

All girls interested are invited to attend these discussions and interviews at Ellen Smith hall, Wednesday, Feb. 21.

# Individuals May Represent Nations

Individuals or groups of individuals may represent nations at the model political committee of the United Nations this year.

Sponsored by NUCWA, the conference, which will be held the first week in April, will include delegates from all members of the United Nations. In order for all University students, including those not members of an organized house, to participate, the steering committee of the conference has urged individuals to sign up as representatives.

Carl Bader, a history major, thinks that the men should be sent if it is necessary for the welfare of the country. He said that we should realize that the defense of the U. S. "no longer rests in our hemisphere alone."

# NU Students Tell Ideas on U.S. Aid

Two University students were questioned by The Lincoln Journal about their feelings toward sending U. S. troops to Europe.

Virgil Kendall, business administration senior, said, "Emphatically, No." Kendall thinks that if there was another war the proposed 100,000 men would be only "a drop in the bucket" compared to what Russia has in the way of manpower. He advises concentration on the air force.

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# Store to Show Prize Winning Photographs

Miller and Paine will display more than 100 prize-winning photographs in the Popular Photography \$25,000 contest at their auditorium Feb. 24 through March 3.

The exhibit which has recently started a tour of the principal American cities is the largest annual event in international photography. While the exhibit was being shown in New York City, over 13,000,000 people viewed the collection.

The prize-winning prints were selected from a record-breaking number of entries, which represented every state and territory in the United States. Outstanding and amateur photographers alike took honors and winners were found to be in all occupations.

A total of 280 U.S. saving bonds were awarded to the winners. The two \$2,000 prizes were given to a mechanical designer from New Jersey and a Californian. Their prints depicted a blind boy reading Braille and a mother and daughter skipping rope, respectively.

A New Jersey butler won one of the major prizes with his color film and a Chinese laundry man's son took three prizes in the contest.

The exhibit is the sixth of its type and is open to the public without charge.

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