



Bazaar Items Completed

The YWCA Christmas Bazaar is being held through Saturday at Rosa Batoon Hall, from 10 a.m. to 6 p.m. Shown above finishing items to be sold are (from left) Sally Laase (seated); Marcia Mittelstadt, Marilyn Mousel, Carolyn Orr and Connie Berry (seated). According to Marilyn Beideck, chairman, the Bazaar

will provide a welcome solution to the Christmas gift-shopping problems faced by many University students. Committee members include Miss Mousel, Miss Laase, Karen Newton, Sara Jones, Carolyn Edwards and Ruthie Rosenquist. A varied assortment of items suitable as gifts include: home-made

candy and cookies, felt collars, ceramic jewelry, stuffed toys, Christmas cards, and wrappings, and ashtrays. The purpose of this bazaar is to provide Christmas merchandise for the students and to earn money which will be used to finance the campus YWCA activities, Miss Beideck said.

Courtesy Lincoln Journal

Seating Arrangements: MB To Feature Sideline Tables

Tables to seat 1000 people are being set up in the Coliseum for the forty-third annual Military Ball tonight, according to Joe Krause, Air Force ROTC Wing Staff member.

The new arrangement will make it possible for organized houses attending the ball to be seated in blocks.

The program will begin at 8

Closing Hours

Because of the Military Ball tonight, closing hours for all University women have been set at 2 a.m. Paula Broady Wells, AWS president, announced Thursday that no overnights will be granted either in town or out-of-Lincoln.

p.m. with a concert by the ROTC band. Following the grand march of senior ROTC cadets and their

ladies, the Honorary Commandant will be commissioned. Finalists for the honor are Peggy Baldwin, Janice Carman, Gail Drahota and Phyllis Sherman. The remaining three finalists will be named Miss Air Force, Miss Army, and Miss Navy.

Their escorts will be Air Force Cadet Col. Earl Barnett, Army Cadet Col. Charles Goman, Navy Cadet Capt. Richard Hill, and Air Force Cadet Col. James Hewitt.

At the conclusion of the ceremony, Eddie Howard and his orchestra will complete the program with dancing from 9 p.m. to 12 p.m.

Tickets for the ball may be obtained from any ROTC senior, at the booth in the Union, or at the Coliseum this Friday. Tickets are \$3 per couple, \$1 for spectators.

Eligible Bachelors: All-Women's Election To Select Six Tuesday

Candidates have been announced for six Eligible Bachelors to be chosen at an All-Women's Election Tuesday.

Voting will take place in City Union from 10 to 6 and in Ag Union from 8 to 6, Barb Clark, Elections chairman, announced. Students must present their identification cards in order to vote.

The Eligible Bachelor candidates are:

Hank Baum, Brown Palace senior in Teachers College; Bob Brown, Alpha Tau Omega senior in Business Administration; Don Bucy, Phi Kappa Psi junior in Engineering; Gary Burchfield, Alpha Gamma Rho junior in Agriculture.

Don Deterding, Delta Upsilon junior in Business Administration; Rex Ekwall, Canfield House—Men's Dormitory, junior in Business Administration; Larry Epstein, Sigma Alpha Mu sophomore in Arts and Sciences; Don Erway, Delta Tau Delta junior in Business Administration;

Wendell Faeh, Ag Men's Club sophomore in Agriculture; Rex Fischer, Phi Gamma Delta senior in Arts and Sciences; Emil Gadenken, Beta Sigma Psi sophomore in

Engineering; Charlee Garst, Theta Chi sophomore in Engineering; Lee Harris, Sigma Chi senior in Business Administration;

John Heeck, Norris House sophomore in Arts and Sciences; Jack Harris, Sigma Chi senior in Business Administration; Jim Epsilon junior in Teachers College; Gary Lucore, Pi Kappa Phi junior in Business Administration; John Nelson, Theta Xi junior in Arts and Sciences; Dick Reische, Beta Theta Pi junior in Business Administration;

Len Schropfer, RAM—Men's Dormitory, junior in Teachers College; Roger Scow, Sigma Alpha Epsilon senior in Business Administration; Ed Snyder, Acacia sophomore in Teachers College; Jim Souders, Sellenck Quadrangle junior in Engineering;

Jack Talsma, Phi Delta Theta junior in Arts and Sciences; Charlie Trumble, Farm House junior in Agriculture; Jim Vanek, Kappa Sigma senior in Business Administration; and Lonnie Wrasse, Alpha Gamma Sigma senior in Agriculture.

No publicity is to be done on Election Day, Miss Clark stated. Candidates may be disqualified if this rule is broken, she added.

Dr. Hoiberg: Heidelberg Atmosphere Still Affects Germany

Students at Heidelberg still have in a genuine "Student Prince" fashion, Dr. Otto Hoiberg, associate professor of sociology, reported at a NUCWA meeting Thursday night.

He spoke on the basis of trips to Germany, one for three years during the post-war period, the other for two and one-half months last summer.

Hoiberg showed colored slides of various phases of German life. Among the slides were a picture of the Cathedral at Worms where Martin Luther made his famous proclamation, one of a German wedding party and of the Free University at Berlin.

A slide was shown of a church

in Heidelberg which was so bitterly contested for by the Catholics and Protestants during the Reformation that a wall was built down the aisle which divided the church into Catholic and Protestant halves.

The trend has been toward smaller churches and smaller congregations, Hoiberg said. This is expected to promote a closer understanding between the members of the congregation and the minister. Some congregations once reached 15,000.

When Hoiberg was in Germany last summer, he was a representative of an exchange program which discussed the role of the layman in American church activities.

The United States has helped Germany in various ways, Hoiberg said, but the greatest way is through this exchange program. It gives both countries a better understanding and appreciation of another way of life.

NBC Plans To Televis First Game

University basketball team will open the cage season Saturday against Iowa in a game nationally televised by NBC-TV from Iowa City.

The probable starting line-up for Coach Jerry Bush's Huskers will include Rex Ekwall and Charlie Smith, forwards; Don Smidt, center; Lyle Naanen and Norm Coufal, guards.

Iowa is defending Big Ten champion and is rated by sportscasters as one of this year's potentially great teams. Their attack, built around Big Bill Logan and Deacon Davis both all-Americans, is one of the most formidable in the midwest.

Cornhusker mentor Jerry Bush will feature his "pony express trio," consisting of sophomores Gary Reimers (5-11), James Kubacki (5-10) and James Atwood (6-3), for relief work.

Bush is a little concerned over his team's ball handling but generally the NU offense is beginning to take shape.

Other Huskers who will make the trip include Jim Thom, Bob Mercer, Dudley Doebele and Bill Wells.

Majors: Ag School To Begin New Plan

A system of departmental majors for the four-year curricula in Agriculture has been adopted by the faculty, announced Dr. Franklin Eldridge, Associate Director of Resident Instruction.

The new plan will begin next fall and will replace the present system of group majors, he said.

Two of the group majors, general agriculture and technical science groups, were retained by the faculty to be used as the fundamental curricula on which the departmental majors will be based.

If a student wishes to major in animal husbandry for example, he may use either general agriculture or technical science as a base, and still have a majority of his courses pertain to the animal husbandry field.

If he desired a technical field, he would likely follow the latter base; and if desiring a more broad education of his choice, he would follow the general agriculture base.

Eldridge announced that the general agriculture major has been kept, especially for those students not planning on continuing their education beyond the B. S. degree, or who do not plan on doing highly technical work in agriculture.

Students enrolling for the fall semester of next year will be subject to the new system. Those presently enrolled may complete their course of study under the present plan, or transfer to the revised system if they so desire, he said.

Since the general agriculture curriculum was retained, a student may follow it, or one of the following definite departmental majors:

Those based on the general agricultural curriculum: Ag economics, Ag extension, Ag journalism, agronomy, conservation, animal husbandry, dairy production management, dairy products technology, entomology, poultry husbandry and vocational education.

Those based on the technical science curriculum: technical agronomy, animal husbandry, dairy production technology, dairy products management, dairy products technology, entomology, horticulture and plant pathology.

IFC Throttles Spiking By Decisive Voice Vote

Depledging Provisions Altered, Rules Put In By-Laws

By SAM JENSEN
Managing Editor

Interfraternity Council rejected Wednesday a proposal to legalize spiking by a decisive voice vote.

The proposal originated in a special committee headed by Jan Pickard, Kappa Sigma, and was one of 14 changes offered to the IFC in the form of committee recommendations.

The IFC also made changes in existing provisions for depledging, placed Rush Week rules in the by-laws and tabled the proposed schedule for next Rush Week.

Charles Gomon, Sigma Nu president, opposed the committee's solution for the spiking problem and said that the proposal "reduces the IFC to hypocrisy when it is seeking recognition as one of the nation's outstanding IFC's" and "it can't enforce its own policies."

By adopting such a policy as this, Gomon said, the IFC would become "weak and vacillating—incapable of standing on its own feet." He said that the committee's proposal would reduce the pledge pin to "insignificance" and that the active pin would also lose its importance.

Pickard said that the purpose of the committee's motion was to place "spiking in its proper perspective."

Marvin Breslow, Sigma Alpha Mu, speaking in favor of the committee's plan said the IFC is being realistic and is accepting what it can and what it cannot do. Contrary to "some wild-eyed things in the paper," Breslow said, an "inquisition" of pledges would not be possible. It is not the responsibility of the IFC, he said, if a "fraternity wants to prostitute its own pin."

Another major action of the afternoon involved a change in Rush Week rules which added a provision that if a person depledged

after a period of 30 days from his pledging, he would be allowed to pledge another fraternity after another 30 days.

The rule, before amendment, only stated that men depledging during the first 30 days of pledging could not pledge until the following semester. The change was made to make the provisions concerning depledging more equitable. IFC members also voted to place Rushing rules in the by-laws of the organization. Rush Week rules are now in the IFC Constitution.

An amendment by Gomon stated that Rush Week rules would not be able to be changed at the same meeting at which they were proposed.

The schedule for Rush Week that was submitted by the committee was sent back to committee as were proposals 11 through 14, which were not considered for lack of time.

A proposal to have a Rush Week at the beginning of the second semester was defeated. Other minor considerations concerning rush cards and rush pamphlets were also approved.

The IFC also decided that a rule stating that rushees were not to

come in contact with fraternity men during rush week was impractical and impossible to enforce.

Other business of the IFC at its Wednesday meeting included the selection of Bill Tomsen, Phi Delta Theta, as a delegate to the national IFC meeting, a report on the annual IFC Orphans Christmas party and a resolution to have the annual IFC Ball, if arrangements could be made with the office of Student Affairs.



Nebraska Photo Gomon

Nuclear Energy Institute: Uses Of Atomic Power Shown In Union Exhibit

By MARIANNE THYGESON
Staff Writer

The first clear picture of how atomic energy can be harnessed and applied to business and industrial uses was explained at the Nuclear Energy Institute at the University Thursday and Friday.

The display on atomic energy is exhibited in the Union main lounge. The cost of the display was reported to be fifty thousand dollars. The display consists of five exact scale models showing how atomic energy may be used in business and industry. A complicated electrical system is required to keep the precision models in operation.

The display includes models of three types of research reactors presented by Atomics International, which is a division of North American Aviation International.

These include the medical reactor, the pool type reactor, and the solution type reactor. All of these types of reactors can be used for food preservation, medical research and treatment, agriculture, and plastics and metal manufacture.

A scale model of the 75,000 kilowatt nuclear power station, of the Sodium-graphite type, proposed for the Consumer's Public Power Dis-

tribut for use in Nebraska was also included in the display. The possibility of establishing such a nuclear power plant in Nebraska was first discussed in 1953.

A formal application for the construction of a sodium-graphite reactor plant was made to the AEC in March, 1955. Upon its approval, construction is expected to be completed in 1958.

General Electric presented a model at the display which demonstrated the operation of a plant means of radiation.

The schedule and speakers for Friday are:

"Industrial Use of Isotopes," 11 a.m. to 11:45 a.m., W. E. Chamberlain, Director of Special Projects, American Machine and Foundry Co.

"Isotopes in the Field of Agriculture," 1:15 p.m. to 2 p.m., Dr. Paul Pearson, head of biology section of Medical and Biology Division of the AEC.

"Food Processing and Preservation by Irradiation," 2 p.m. to 3:15 p.m., Lt. Col. Belmont Evans, Institute for Armed Forces, and Dr. B. S. Schweigert, American Mean Institute Foundation

"Where Do We Go From Here?" 3:15 p.m., discussion led by Chancellor Hardin.

Speeches Highlight Institute Siegel Describes Plant Starr's Talk Stresses Creative Uses Of Atom

A nuclear power plant to produce 75,000 kilowatts of electricity proposed for Nebraska by the Consumers Public Power District was described Thursday morning at the Nuclear Energy Institute by Dr. Sidney Siegel, technical director of Atomics International, a division of North American Aviation, Inc., which will construct the plant.

Dr. Siegel said: "The sodium graphite type reactor, designed for the power plant by Atomics International, would contain about 200 fuel rods in the 'core,' or area of the machine where atomic fission takes place.

"Heat produced would be absorbed by a liquid sodium system circulating around the fuel rods, and transferred outside the reactor to produce steam in the conventional manner. This steam would then drive turbogenerators to produce 75,000 kilowatts of electricity."

Dr. Siegel, who was associated with the initial development of the submarine reactor, explained that the sodium graphite reactor proposed for Consumers is the same general type machine which Atomics International is now constructing near Los Angeles as part of the Atomic Energy Commission's program for the development of commercial power from nuclear energy.

He said the latter reactor, called the sodium graphite experiment, will be completed early next year. Present design for this machine calls for the production of 20,000 kilowatts of heat. A program to convert this heat to 75,000 kilowatts of electricity is now under consideration, he added.

The sodium graphite reactor approach to economical power is considered promising for a number



Courtesy Sunday Journal and Star Siegel

of reasons, Dr. Siegel said.

"Good heat transfer properties and the high boiling point of the metal which permits it to absorb a large quantity of heat without an increase in pressure are some of the properties of sodium which makes it an attractive 'coolant' for a power reactor."

The possibility of utilizing the radiations produced by the reactor also was discussed by Dr. Siegel. "There is a wide range of applications of the gamma ray radiations from the reactor. Practically all fields of medicine, industry, and science have use for nuclear radiations in furthering the research, development and manufacturing programs in their respective fields."

Freshman Honorary Names 9

Alpha Lambda Delta, national freshman women's scholastic honorary, initiated nine members Thursday, President Nancy Salter, said.

Pledges initiated were Helen Barnett, Jean Bennett, Martha Danielson, Joan Kluge, Naomi Kroeger, Janet Lovseth, Betty Parks, Patricia Schaller and Darina Turner.

After the initiation ceremony, Mrs. Walter Blore of Lincoln spoke on Phi Beta Kappa and Sigma Xi requirements.

Membership in Alpha Lambda Delta requires a 7.5 average for a minimum of 15 credit hours or an accumulated average of 7.5 for the freshman year.

The initiative, foresight, and courage being demonstrated by private and public organizations in developing the creative uses of atomic energy is consistent with the historic pioneering spirit which has led our nation to its position of world prominence.

So said Dr. Chauncey Starr, vice president of North American Aviation, Inc., and general manager of the company's Atomic International division, in a banquet address Thursday evening before the Nuclear Energy Institute.

Dr. Starr's address, presented at a dinner meeting to educators, businessmen, and industrialists from leading Nebraska organizations, was part of the two day Institute, sponsored by the Nebraska Resources Division and the University.

The two principal "products" of atomic fission, heat and radiation, were described by Dr. Starr, together with an analysis of how these products of the nuclear age are being developed and utilized to the economic, social, industrial, and scientific benefit of all mankind.

"When an atom splits," Dr. Starr explained, "there is a release of radiation, such as gamma rays, similar to but more powerful than X-rays; neutrons, which are tiny 'bundles of energy'; and just plain heat—but lots of it."

"The radiation products are already being put to good use in the scientific, industrial, and medical fields, with a great deal of promise for further application. Dramatic results have been obtained by the use of radiation products in medicine's battle with cancer and other diseases. The petroleum, textiles, chemical, and food and drug industries have demonstrated marked progress in the utilization of radiations in their respective fields.

"In the power field, where the heat from fission is the key product, there is no question as to the technical feasibility of producing electricity from the atom," Dr. Starr said.

"A 'double-barreled' approach to make the most economical and efficient use of atomic energy is to provide an installation which reaps the benefits of both heat and radiation from the fission process," Dr. Starr pointed out.

"The reactor project proposed by the Consumers Public Power District of Nebraska offers the possibilities of such an approach," he said.



Courtesy Sunday Journal and Star Starr

Although heat and power represent only a fraction of the cost of industrial products, industry cannot locate and expand in areas where these commodities are lacking, Dr. Starr explained. "The location of low-cost electrical power usually determines where industry will go, and how fast it grows."

"The added availability of atomic radiations creates a fertile field for the location and expansion of several industries."

"As an example," Dr. Starr said, "the rapid strides being made in the food and drug sterilization using radiation methods point to the establishment of industrial plants in areas where the old requirement, heat and the ingredient, radiation, can both be provided. Low cost power, not only generating commercial electricity, but also providing process heat and steam, are also in great demand by industries whose products are receptive to improvement by radiation.

"Not the least important of our various industries, the field of agriculture also has received benefits from the atom."

Dr. Starr observed: "Particularly in our great western areas, upon which the nation depends so heavily for the produce of our farms, fields, and ranches, there have already been striking developments in agricultural methods resulting from the application of the radioactive atom."

Dr. Starr concluded by observing that "although we have already seen significant results from the peacetime atom, it is only through our continued research and development that we will fully realize the almost limitless benefits in store for mankind from this new tool."