Know Your College . . .

Colleges to Realize Two Dreams

(This is the tenth in a series of articles about the various schools, colleges and departments within the University. In these articles, The Daily Nebraskan is attempting to present the dream," or plans for expansion, either of facilities or of courses.)

More instructors for mathematics courses and new quarters for astronomy equipment.

When these two "dreams" are realized next year, the Mathematics and astronomy departments will be well equipped, according to M. A. Basoco, chairman of the department.

The department has plans to get three new instructors for math courses next year. This will enable the addition of new courses representing new advances in mathematical theory.

Astronomy facilities will be moved to Ferguson hall, upon its completion some time this year. One lecture room and one lab room will be available to astronomy students, as well as space on the roof of the building for telescopes.

Mathematics and astronomy were combined into one department in 1933. Mathematics has been taught since the founding of the University in 1871, while astronomy instruction was begun toward the end of the last century.

The math instruction serves mainly as background for other courses, although there are students majoring in the subject. On the other hand, astronomy courses are taken mainly to give the student some knowledge of heavenly phenomena.

Mathematics

The mathematics department has recently revised its graduate program to bring it up with the latest advances in research. Courses in operational calculus, designed for engineers and physics students, topology, which contains the fundamental notions of modern math; and matrix and tensor calculus, a study of the techniques which underlie recent physical theories, have recently been added to the curriculum.

Basoco said that he hopes to be able to add other courses at some future date. He would like to offer an introduction to mathematics course, which would emphasize the cultural aspects of history of the subject. Basoco would also like to offer additional courses in mathematical statistics, as well as a mathematical methods in engineering course.

Statistics Lab

One of the additions to the department when it moved to Burnett hall, was a mathematical statistics laboratory, which contains 13 computing machines as well as the figures used in geometry classes.

Jobs available to math majors are mainly in two fields, teaching and industrial research. Many of the jobs in research require graduate training. The Atomic Energy Commission and the office of Naval Research have some openings for qualified students.

If mathematics is coupled with physics or engineering, many job fields are open. There are still many unfilled positions as a result of the shortage of help during the war.

Calculus Required

All engineering college students have to take courses in math which will take them at least through calculus, the fourth semester math. Two courses are offered for business administration students. These are mathematics in business courses.

The Master of Arts, Master of Science and the Doctor of Philosophy degrees are offered in graduate work. During the past 20 years, 60 masters and six doctor's degrees have been granted through the department.

The mathematics department is located on the second floor of Burnett hall. The present department includes 14 full time instructors and six gradaute assistants. About 1700 students are taking math courses this semester.

Pi Mu Epsilon is the math honorary. Students who have a 7.5 average in math subjects through calculus may be recommended for the society by their instructors.

Astronomy

Work in astronomy courses will be greatly facilitated by the new quarters in Ferguson hall. More space will be available for equipment, as well as the roof space specially designed for use of the 12¼-inch telescope, which has not been used for several years.

The telescope is at present located on the Agricultural college campus in the dome. It has not been used for several years because of the breakdown of the rotating dome. In anticipation of the move to Ferguson hall, the mirror for the telescope has recently been coated with chrom-aluminum.

The space on the roof is enclosed by a seven-foot wall, which will shut out the lights of the city and thus facilitate work with the telescope. Space has been provided for other telescopes which maye be acquired in the future.

Covers will be provided for the telescopes during the winter months. A system of live steam will be available to melt the snow on the roof, thus allowing use of the roof during the winter as well as in summer.

Astronomy classes will be held in two rooms of the first floor of Ferguson Hall. Instruction will be given in one room, while the other room will hold the various equipment.

65 in Courses

About 65 students are taking astronomy courses at the present time. Oliver Collins, who instructs some of the classes, believes that more students will take courses as soon as better facilities are available. Students learn the basic facts of the movement of heavenly bodies, such as stars, planets and comets. They learn about the use of stars, maps and globes.

One of the more specialized courses is celestial navigation and practical astronomy, which is one of Collins' special interests. He has written an article for the April issue of the Journal of the Institute of Navigation entitled "Astrofix by Computation." It concerns finding one's position on the earth by use of heavenly bodies.

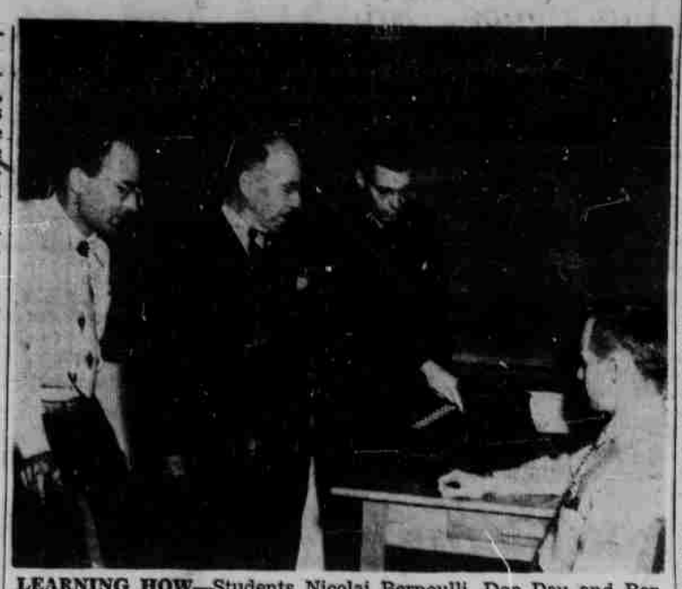
Collins' article is the result of five years work on the subject. The American Overseas Airline has experimented with Collins' findings and the paper is based on those findings.

Equipment

Equipment for astronomy work includes:

A four inch refracting telescope, used for star observation; ten smaller reflecting telescopes, used for the same purpose; a planisphere, made by astronomy students, which is used to determine the relative positions of the stars and planets during the various seasons; a sky projector, which allows the projection of star positions on a screen. A small globe with start positions on it is placed in this machine. Through a special arrangement, the globe can be rotated to approximate the movements of the earth.

Another piece of equipment is an astronomical camera, obtained from Yerkes Observatory. The three inch camera is used to take photographs of the star movements.



LEARNING HOW—Students Nicolai Bernoulli, Don Dau and Ben Krieth listen to Prof. Chester Camp's explanation of one of the 13 computing machines in the Mathematics laboratory. These machines are used for the mathematical statistics classes. (Rag Photo by Hank Lamners.)

Block and Bridle Honors McKelvie

Four students were honored Friday evening at a dinner sponsored by the Nebraska chapter of national Block and Bridle club following the annual Feeders' day program at the college of agriculture.

Robert Beck of Fremont, Ag college junior and vice president of the Nebraska club, was awarded the top prize for being high winner of the senior division of the recent University livestock judging contest. He was awarded an Elgin watch.

The national Block and Bridle club's gold medal went to Robert Raun, junior, president of the Nebraska chapter, for winning second place in the contest. A silver medal from the national organization went to Robert Watson, freshman, for winning high place in the junior division of the livestock judging contest.

McKelvie Honored.

Samuel R. McKelvie of Valentine, prominent Nebraska cattle breeder, publisher and former state governor, was also honored Friday night for his contribution to midwestern agriculture.

Those who paid tribute to Mr. McKelvie included Col. Art Thompson of Lincoln, who discussed the rancher's contribution to Nebraska agriculture through publication of the Nebraska Farmer; John Vanier, owner of the C. K. Ranch at Brookvale, Kas., who told of Mr. McKelvie's contributions to the Hereford breed of cattle; and Thomas F. Arnold of Valentine, who discussed services Mr. McKelvie has rendered to ranchers in the Sand Hills area.

Lambert Outstanding.

Stanley Lambert, senior, received the national organization's chapter merit award for being selected the outstanding Block and Bridle member of the Nebraska group. This award automatically nominates him as candidate for the honor of the most outstanding Block and Bridle member of the senior class in the United States at the club's national convention this year. He was manager of the recent junior Ak-Sar-Ben show.

The National Block and Bridle gold medal showing and fitting award went to Gary Lundeen, a freshman, for winning the championship at the Junior A-Sar-Ben show.

Prime Mover.

Mr. McKelvie was termed one of the most enthusiastic boosters of the Nebraska Sand Hills and the area's cattle. As a result, Mr. Arnold said, Sand Hills cattle are in demand everywhere. Mr. McKelvie was the prime mover, he said, in the establishment of the Sand Hills Cattle Producer's association. The former governor has served as the organization's president since it started.

The Nebraska Block and Bridle club started honoring prominent contributors to the state's ariculture in 1938. First man selected for the honor was the late Samuel McKelvie of Fairfield, the father of this year's honoree. The Valentine rancher's portrait was unveiled at the ceremony. It will be placed in the "Hall of Fame" in animal husbandry hall at the College of Agriculture.

Merle Stalder, Salem, agricultural college senior, was toastmaster of the evening.

Discussion To Evaluate UN Assembly

A discussion of last month's mock United Nations assembly will be on the doeket Tuesday evening when students and faculty members who participated in the conference attend a conference evaluation meeting.

All individuals who were interested in the Nebraska University Council for World Affairs project will meet at 8 p. m. at Ellen Smith hall.

They will discuss what was accomplished by the model assembly and offer suggestions for the improvement of similar projects which may be held next year. They also will bring up ideas in the way of other NUCWA activities for the 1950-'51 school year.

These suggestions will be carried to a mass meeting of NUCWA members the following Thursday. This follow-up meeting will take place at 7:30 p. m. in Parlor A of the Union.

Other Business

Other business at the Thursday meeting will include suggestions for amendments to the NUCWA constitution and nomination of officers for the coming year. Bill Edmondson has acted as president of the world affairs group this year. Elections will be held a week later.

The Tuesday night meeting concerns the mock assembly which was planned in imitation of the actual United Nations general assembly. Other projects which were held in connection with the March conference were the International Friendship dinner, the University Theatre's presentation of "Home of the Brave" and the law school's mock World Court.

Various campus houses and organizations represented United Nations members and sent delegates to the conference. The representatives took up four international issues, in addition to electing non-permanent members of the Security Council.

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Union Announces Facilities Available for Summer Use

Union activities along with University recreational programs will hit an all time high during the 1950 Summer Session, according to Genene Grimm, Union Activities director.

The newest facility that may be available to students in the Union is a proposed course in photography. A series of six lessons will be held beginning Friday, June 16, running thru Friday, July 21. Classes would be held in the Union craft shop under the instruction of Professor R. F. Morgan of the Journalism department. The course would cover field trips, developing, care of cameras, lighting and effects.

Series of sports films have been planned to show in the Union lounge along with a number of other movies which will include "The Seventh Veil," an English film.

Activities Open

Union activities officially begin Thursday, June 8, when high school students arrive for All State. All facilities will be open to students until August 6.

Other facilities to be available for student entertainment will be square dances in the Union ballroom, features films, workshop clinics, juke box dances, crafts, bridge and musical concerts.

Summer session special activities sponsored by the division of physical education will include softball leagues, recreational tennis, swimming for men, golf tournaments and table tennis tournaments.

Most of these activities will be available in the Physical Education building for men. However, the table tennis tournament will be sponsored jointly by the Union and Physical Education department.

Handball, golf, driving cage, shuffleboard squash, weight training and individual conditioning apparatus will be available in the Coliseum.

Family Swimming Parties

A special facility will be open to students, faculty and their families. Every Wednesday afternoon from 4:50 to 5:50 p.m. family swimming parties will be held in the Coliseum swimming pool. Swimming permits will be available in Student Health. Interested persons must also file at the Coliseum.

High school students will also take part in summer session activities. Two groups, All-State, and Boys and Girls State, will spend three to five weeks on the Nebraska campus. A University experience in music, dramatics and art will be available for those registering in All State.

The American Legion sponsored Boys and Girls state will send over 500 high schoolers to the campus for instruction in government and civics.

Another group that will be on the campus this summer will be teachers of high schools and grade schools for the annual Teachers clinics. Dr. Frank Sorenson is in charge of the 1950 Summer session.

Beef Production Speed Up Plans Outlined to Feeders

The production of beef is not keeping pace with the increase in the U.S. population and research is being stepped up in an attempt to rectify the situation.

So spoke Dr. R. T. Clark, Denver, co-ordinator of beef breeding research for the U.S. department of agriculture, at Nebraska's annual feeders' day here Friday.

In 1900, Dr. Clark said, there were 59,000,000 beef cattle for the 76,000,000 people. Now there are more than 150,000,000 people and only 80,000,000 beef animals in the country.

The expert outlined the regional beef breeding research project set up in 1946, calling it the largest program ever planned to date to propogate and improve a farm animal. There are three regions for the national project—north central, western and southern.

Co-ordinator.

Dr. Leslie Johnson, stationed at the University, is co-ordinator for the north central region's patr of the project.

Dr. Clark reported that several former military establishments have now been set up to advance the project in all sections of the country. The one at Fort Robinson is an example. It is jointly supervised by the University and the USDA. In addition, Dr. Clark said, several private breeders have loaned their facilities for the project.

The national project, he said, is being helped by the several breed associations in the country. The American Hereford association, he added, is helping with finances.

Research that has been accomplished in the past, he said, shows clearly that many more accomplishments are coming faster with the more enlightened methods of investigation now available.

Improve Strains.

Principal objectives, he said, are to improve and propogate useful strains within present breeds, and in some areas, particularly in the south, to develop better crosses of breeds; and to develop types of cattle adapted to specific areas.

Efforts toward the latter objective have been fruitful in a short time, he said. Researchers, also, he added, are going to investigate more the size and type relationships within breeds to clear up confusion. "Breeders," he said, "sometimes wonder if their program is properly oriented toward obtaining their objectives.

Wives Attend.

Wives of farmers attending feeders' day went to an educational program along with entertainment by organized campus groups.

The educational program featured demonstrations on the use of lard in cooking by Dr. Josephine Brooks, associate professor of foods and nutrition and a talk by Prof. Charles H. Adams, telling what makes good lard.

The afternoon program included an inspirational talk by Mrs. C. Petrus Peterson of Lincoln on "There is No Place Like Nebraska." Miss Evelyn Metzger of the home economics department spoke on interior designs and home decorations. Miss Wilma Elson of an Omaha meat packing firm demonstrated meat cookery.

Union Adition . . .

(Continued from Page 1.)

by which a Union addition is possible.

The question has been asked which the committee feels should be answered for all students. It is: Why should we have a Union before we have a new Temple or other new building?

The answer lies in the simple fact that construction for a Temple building would be obtained not through student payment but through Nebraska tax money.

However, the only way that a Student Union addition is possible is through the students' own financing.

The Union is solely the students' own building. They were the ones who gave the go-ahead signal for a Union building to be constructed 14 years ago, in 1936.

If the fee increase is approved by students Wednesday, it will mean that a fund of $500,000 will be obtained which will allow those facilities, recreational, cultural and service, which have been proposed, part of which are listed in the questionnaire. (Those facilities having the most importance were included in the form.)

Present facilities of the Union are not meeting the needs of 6,000 students not to mention 8,000 students presently enrolled at the University.

It is also pointed out by the committee that present Union fees do not even allow for adequate operation costs which have increased above the pre-war level.

'Fair' Dance . . .

(Continued from Page 1.)

the list. The girl receiving the highest number of votes will be Goddess and the four next high will be her attendants.

Rex Crom is in charge of decorations for the dance. Tickets are being handled by Joyce Shaner and Mary Gieseker. Marcia Adams is in charge of the Home Ec club presentation of the royalty. General chairman of the dance is Sue Bjorklund.

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Government Jobs Open To Engineers

The United States Civil Service Commission has announced an examination for engineers to fill positions paying from $4,600 to $6,400 in various Federal agencies in Washington, D. C., and vicinity. A few positions throughout the United States may also be filled.

Positions covered by this examination are in all branches of engineering. To qualify for a position, applicants must have met one of the following qualifications:

1. Have completed a 4-year college course leading to a bachelor's degree in engineering, or

2. have had four years of progressive experience in technical engineering, or

3. have had a combination of such education and experience.

In addition, they must have had from two to four years of professional experience in engineering, the amount depending on the salary level for which they wish to be considered. Pertinent graduate study may be substituted for part of the professional experience. No written test will be given.

The age limits, which will be waived for persons entitled to veteran preference, are 13 to 62 years.

Full information about the examination, and application forms, may be secured at most first- and second-class post offices, from civil service regional offices, or from the U. S. Civil Service Commission, Washington 25, D. C. Applications for this examination must be received in the Commission's Washington office not later than May 9, 1950.

BABW Activity Points Due Today

Today is the deadline set by BABW for independent women to turn in individual points for awards at the annual Recognition Tea, which will be held May 5.

The points may be turned in at the BABW mail box in the basement of the Union, or to any board member. Coeds who have earned 100 activity points, as set up in the Barb activity program will be recognized at the tea.

Those who have earned the required number of points will receive BABW pins. A rose will be presented to those receiving recognition for the second year. Nineteen people receivd individual rcognition last year.

The Achievement plaque, which is being awarded for the first time this year, will be given on a basis of points earned by the house or organization as a group in three fields—campus activities, house improvement, and scholarship.

The Recognition Tea will be held in Ellen Smith hall from 5 to 6 p.m. on Friday, May 5.

Ex-Husker Gets Oak Leaf Cluster

Capt. John B. Trumble, has been awarded the third Oak Leaf Cluster to the Air Medal for outstanding achievement in aerial flight while serving as a pilot with the Berlin Airlift. Presentation of the award was made at Air Materiel Command Headquarters, Dayton, Ohio.

In the citation which accompanied the award Captain Trumble was praised for exceptional performance in maintaining precise timing under adverse conditions while flying 100 missions of the Airlift from western Germany to Berlin between May 1 and July 23, 1949.

Captain Trumble attended the University before entering military service in June 1942. In addition to his service in Germany he served in the China-Burma-India Theater from March to November 1945. At present his assignment is as command agronomist for Air Materiel Command at Dayton, Ohio.

Acacia Dancers To Wear Leis

Guests of Acacia fraternity at its spring formal April 29 will receive leis flown in from Hawaii especially for the dance.

About 40 carnation and orchid leis have been ordered. Made in pink, red or white, the carnation leis each contain some 300 blossoms. Approximately 250 lavender or deep purple flowers are used in each orchid lei.

Lei-making is an occupation all itself in Hawaii, according to Don Chang, Acacia member who made the arrangements. The flower chains are sold in the streets of the cities, particularly near the waterfront when a ship is about to leave the island.

Methodist Group Names Officers

New president of Sigma Theta Epsilon, Methodist fraternity, is Will Darby. Glen Carter was elected to assist Darby in the vice-president position at the Tuesday, April 4, meeting.

Others elected included: Wilber Whitehead, pledge master; Stan Meyers, recording secretary; Jim Matson, corresponding secretary and alumni secretary; Ken Kritner, treasurer; John Howe, chaplin; Frank Major, historian; Jack Robson, doorman; Don Walker, assistant doorman; and Rich Satterfield, Student council representative.

ROTC to Give 230 Awards

"Scholarships" worth over $150,000 are available to about 230 University sophomore men students this spring.

The "scholarships" are the monetary worth to be received from the advanced course in the Army and the Air Force Advanced R.O.T.C. programs.

Applications are now being received for Advanced Course applicants. Here's all you do: (1) Go to Room 110, Military and Naval Science building and get application forms; (2) take the army general classification test, and if you score 110 points you then (3) go before a board of officers for an interview, and if successful there (4) take a physical examination.

Upon completion of the two-year course which includes a summer camp, you become a second lieutenant in the organized reserves. However, five to eight advanced students who earn the designation of Distinguished Military Students, may be admitted to the Army and Air Force with regular army commissions.

Commissions are available in five branches of the Army ROTC—engineering, field artillery, military police, infantry and ordinance, and in communications or administration-logistics in the Air Force.

The two-year advanced courses pay students $705, exclusive of uniform allowances. Approximately 150 openings are still available in the Army ROTC and 80 in the Air Force ROTC.

City Campus Adds Home Ec Course

Home Economics 191, Marriage and Family Relations, will be offered on the city campus the first semester of 1950-51. The class which will meet at 8 a. m. Monday, Wednesday and Friday, will be open to men and women of sophomore standing or above.

On the Agricultural College campus, where the course has been offered for the last three semesters, men students have made up at least fifty percent of the enrollment.

Kenneth Cannon, assistant professor of family relations, who is instructor for the couarse, states that it is similar in content to functional courses in marriage and family relations in the social science departments of Iowa State, Michigan State, Cornell and other universities.

Enrollment will be limited to forty students for each section.

Miss Fedde Plans Home Ec Tea

Seniors and graduate students of the home economics department will be honored Saturday at the home of Miss Margaret Fedde, chairman of the department.

Miss Fedde will be hostess to about 150 guests at her home, 3848 Dudley, from 3 to 5 p.m.

The tea is given annually by Miss Fedde. Due to her resignation recently, this will be the last year she will give the tea as head of the department.

Bizad Report Shows Gain in State Business

Norfolk and Chadron were the two brightest spots on the February business map of the state, the University Business Administration college reported Friday.

Norfolk showed a gain of 22.5 per cent in general business activity in February over the same month a year ago to lead 13 reporting cities. Chadron had an increase of 18.2 percent. The state average was 7.1 percent.

Other cities showing gains in February over the same month in 1949 were: Omaha 14.1 percent, Fremont 12 percent, North Platte 5.6 percent, Ssottsbluff 1.5 percent, Lincoln 1.2 percent, Fairbury 0.8 percent, McCook 0.8 percent, and Hastings 0.2 percent. Columbus, Kearney and Holdrege showed slight decreases from a year ago. Cities not reporting were Beatrice, Grand Island, and Nebraska City.

For the state as a whole business in February was 7.3 percent under January. Norfolk and Kearney were the only cities reporting February business above the January level.

Retail sales indexes showed a drop in February but the University's Business Research Department said this was due to the price drop only.

SUMMER WORK

INTERNATIONAL ORGANIZATION will employ several alert, mature students with good personality for summer work. This is a dignified sales activity representing the oldest, largest, and best known firm in the educational field. Applicants accepted will work by appointment only. Earnings $75.00 to $125.00 and more per week on an advanced percentage basis—Write Mr. W. F. Craddock, Jr., 1006 Grand Ave., Kansas City, Missouri—Giving qualifications; school and home address.

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