

TECHNOLOGY NEWS

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ILLINOIS INSTITUTE OF TECHNOLOGY, CHICAGO, ILLINOIS

November 19, 1940

Endowment For F.P.E. Library Received By IIT

An endowment fund for the purchase of data for the library of the Illinois Institute of Technology has been established by Miss Frances P. Parker of Newport, Minnesota. Income for the fund will build up a collection of pamphlets, books, and periodicals relating to fire protection engineering.

Scholarship Committee

The collection will be named for the late Jackson V. Parker, brother of the endower. Mr. Parker served as manager of the Western Actuarial Bureau and was very interested in the development of the four year course in fire protection engineering since its establishment in 1903. He passed away in October, 1936, after acting as chairman of the scholarship committee for sixteen years, through which the capital stock fire insurance companies maintain a scholarship award system.

Beckwith Is Chairman

Miss Parker is also providing a bookplate and a bronze tablet to identify the collection in the library. Those who look at the tablet will be reminded of the devotion and the general respect which all of the students had for Mr. Parker. At present, the chairman of the scholarship committee is Mr. R. M. Beckwith.

Illinois Institute of Technology is the only school in the country which maintains a four year academic program leading to a degree in fire protection engineering.

Chem Apparatus Now Located In Chapin Hall Lab.

Illinois Institute's modern organic chemistry research laboratories are located in the chemistry department on the third floor of Chapin Hall. The laboratory is equipped with all the apparatus necessary for graduate students who are working toward advanced degrees in chemistry. Drs. M. J. Murray and S. Winstein are supervising this advanced study.

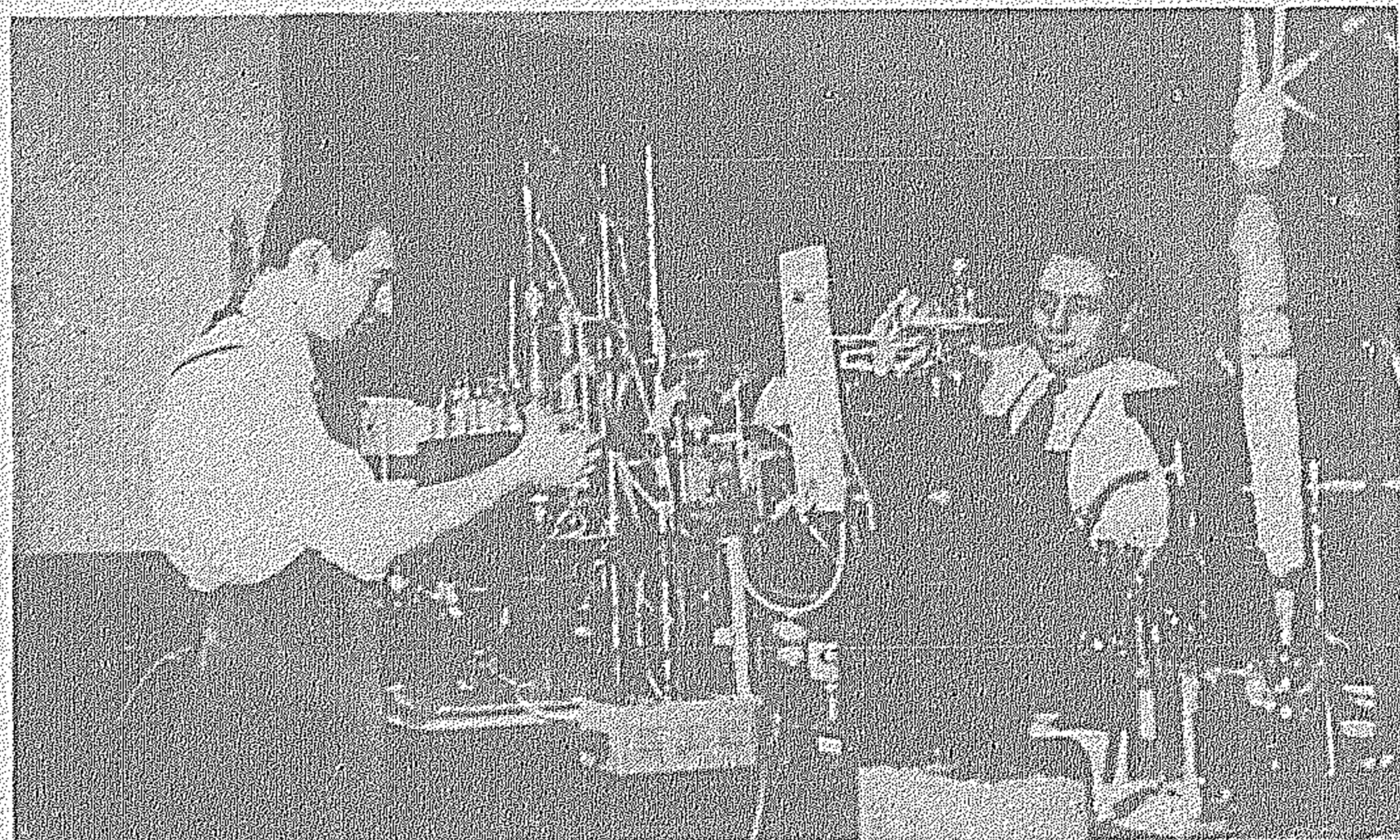
Working with Dr. Murray are graduate students R. H. Saunders, H. J. Taufen and R. E. Dineen in the making of compounds for study under the Raman spectrograph. They are also studying the oxidation of substances by the atmosphere and substances which are insoluble in water but become soluble when silver nitrate is added.

Press

Graduate students R. E. Buckles and H. U. Hess under the direction of Dr. Winstein are studying the intimate details of a chemical reaction. They are using a modern apparatus for reduced pressure distillation in their work, and this apparatus is equipped with a device for automatically controlling the pressure before distillation is begun.

While the chemical engineering department has had graduate students in the field of chemical engineering, this is the first year there has been a special class of graduate students at I.I.T. for those studying for advanced degrees in chemistry.

DISTILLIN' IN CHAPIN



Lab head Dr. Saul Winstein (left), and Dr. Maurice J. Murray (right), working in the new organic chemistry lab on the third floor of Chapin. They are assisted by Robert Buckles (center), graduate assistant.

by Paul Leopold, Staff Photographer

I.T.S.A. Board Will Discuss New Sports, Financial Allotment

One of the subjects discussed at the latest meeting of the I. T. S. A. held last Thursday, was the proposed hockey team. Members of the board heard a suggested budget that would equip a regulation team. The budget was prepared chiefly by Dr. Davey of the Illinois Institute Faculty. It was he who first presented the idea of a hockey team at the request of some of the students. Further discussion will be held at the next meeting of the board and it is probable that a final decision will then be made.

Other items to be included in the current I. T. S. A. budget were considered. It was proposed that the annual allotment for the Tech Relays, to be held in the spring, be increased by about twenty-five percent. It was pointed out that the Relays are one of the greatest indoor track events in the country.

(Continued on page eight)

Friday, Nov. 29 Date Of Jr.-Sr. Scavenger Hunt

Hey fellers! Be a man for a change and tell HER to forget that Friday night date, for Friday night, November 29, is the Junior-Senior stag scavenger hunt. A big success as a Junior affair last year under the guidance of Bud Murray, the 1941 masculine indulgence has been extended to include both the Juniors and the Seniors of both campuses.

The Motor Coach Way

Starting at 7 o'clock in the Armour Student Union, the huntsmen will proceed to the loop in chartered buses. There, within the boundaries of Greater Chicago, some 150 wild and woolly Techawks will be turned loose on lanterns, policemen's buttons, statues, gold fishes, and in short, anything that is lying around with not more than 50 bolts holding it down.

(Continued on page three)

There will be no issue of Technology News next Tuesday, November 26, due to the Thanksgiving holidays. The next issue will be distributed on Tuesday, December 3.

Eight Pledged To Eta Kappa Nu At AIEE Meet Friday

Last Friday, November 15, the pledging of new members to Eta Kappa Nu the Electrical Engineering Honorary Society opened the A.I.E.E. meeting. Six senior electrical engineering students, Vitold Edutis, Harry Levinson, Marvin Skoller, Robert Peterson, Joe Aberer and George Matthews and two juniors, Gastav Staats and Thomas Brown were pledged.

Two electrical engineering students J. Leskinen and Harry Levinson turned the tables by doing the lecturing instead of the customary listening. Leskinen spoke on "Photo-Facsimile Transmission" and Levinson on the subject of "Coaxial Cables."

Pictures Made

Telling of the uses and possibilities in the future of Photo-Facsimile made Leskenen's talk a very interesting one. Three color pictures may now be transmitted by a unit no larger than a suitcase. This unit can be operated on alternating, direct and battery power. An electric eye is the principle mechanism of this unit. As the electric eye passes over a dark spot in the picture to be transmitted, it sends out a low amount of fluctuating current and passing over a high spot it sends out a larger volume of current. A radio frequency carrier wave from a radio transmitter is modulated by the electrical impulses from the electric eye. These waves are picked up by a radio receiver at a distant point and transmitted through a neon tube which prints the picture on a light sensitive paper.

This system has been in operation for 3 years and has proved to be very successful. When Station WGN signs off the air in the morning the waves of the photo-facsimile transmitter can be heard.

Complex Problems

Coaxial cables and their use in telephone transmission were the subject of Harry Levinson's talk. The transmission of high frequency waves through wire has given birth to many complex problems. If the ordinary two wire line is used, considerable distortion of the received signal results, as the flux set up by each wire interferes with the other. This problem has been solved in an interesting way. Since the center portion of a wire offers quite high

(continued on page seven)

Tau Beta Pi Candidates To Be Pledged Tomorrow

Poulter To Speak At WSE Meeting Fri. November 29

Dr. T. C. Poulter, head of the Armour Research Foundation, recipient of the congressional medal for his work on Byrd's second expedition, and now assistant with the scientific program on the present one — will be the speaker at a general assembly, on the Friday following the Thanksgiving recess. Starting at 10:00 a.m. in the student union assembly hall, he will speak on the adventures of the snow cruiser, and show 1600 feet of color film with his talk.

Cruiser in Action

Including scenes of the snow cruiser's famous trek to Boston, the film will also show some views



Dr. T. C. Poulter

at sea, and a few shots of a stop at Pitcairn Island, of "Mutiny on the Bounty" fame. Pictures of the cruiser in operation, the old camp at Little America, and some of the unsuspected but prevalent color of Antarctica, will also be shown.

According to Dr. Poulter, the cruiser has done as well as could be expected. The original plan covering three years — the first spent in experimentation with the cruiser, the second in rebuilding and improving it as the experiments show, and the third in the actual exploration — has been upset by a federal order to return home. The cruiser is to be left there until the next expedition.

Second I.T.S.A. Dance Will Be At Lewis Gym

Did you enjoy the last I. T. S. A. Dance? You did. Well here's your chance to have as good a time if not better. This time it is to be held in the Lewis gym. Friday, December 6 is the night. The Knights of Armour will again furnish their delightful rhythm.

Harvest Dance

Dancing with the Lewis lovelies will begin at 8:00 and continue until the eerie hour of twelve. Autumnal decorations will provide a harvest atmosphere. Sports clothes will be the order of the night, but more daring individuals will be present dressed as the hired man or sweet farm Miss.

Apple cider will help to keep the tonsils of the competing wolves from drying up as they pursue the maidens fair. The toll for this evening's entertainment will be the paltry sum of two-bits per person. Just think all this and Lewis lovelies too.

Spears To Conduct Ceremony

Inaugurating its 34th year on the Armour campus, the Illinois Beta chapter of Tau Beta Pi will conduct the fall pledging of candidates on Wednesday, November 20. A special assembly will be announced to all classes on Wednesday morning by memorandum to all instructors. Professor S. M. Spears, who has so ably conducted the pledgings in the past, has consented to again preside over the meeting.

Founded in 1885

To those of the student body who perhaps have not known Tau Beta Pi before, the Illinois Beta Chapter became the first honor society on the Armour campus when it received its charter from the Tau Beta Pi Association in 1906. The Armour chapter became the fourteenth of a national organization which now numbers 72 active branches in the important engineering colleges throughout the country. The first chapter of Tau Beta Pi was founded at Lehigh University in 1885 "to mark in a fitting manner those who have conferred honor upon their Alma Mater by distinguished scholarship and exemplary character as undergraduates in engineering and to foster a spirit of liberal culture in the engineering colleges of America."

Activities Important

To all freshmen of Armour College, Tau Beta Pi extends its sincere best wishes for a successful first year and invites their added scholastic effort as a pledge of their desire for Tau Beta eligibility. It is well known that the first requirement of eligibility in Tau Beta Pi is a scholastic ranking in the upper fourth of the Senior class or the upper eighth of the Junior class. However, the qualities of character and leadership as evidenced by extra-curricular activities on the campus, as well as the ability to earn one's way through an engineering education, are not to be thought unimportant in the selection of a pledge.

THIS WEEK AT IIT

TUESDAY:

Student Union Board — Student Union office, 4 P.M.
Accordion Orchestra — U2W, 5-6:30 P.M.

WEDNESDAY:

Chemistry lecture, Dr. Bruce Longtin "Rate Phenomena and the Second Law"—East dining room, 9:10 A.M.
Lewis Glee Club — Auditorium, 3 P.M.
Dance Club — Armour Auditorium, 5 P.M.

Honor "I" Initiation—De't House

THURSDAY:

THANKSGIVING

Pi Tau Sigma—U2W, 5-6 P.M.

FRIDAY: NO SCHOOL

Delta Lambda Xi—East dining room, 10 A.M.

WEDNESDAY:

Dance Club—Armour Auditorium, 5 P.M.

FRIDAY:

W.S.E. General Assembly, Dr. T. C. Poulter "Snow Cruiser"—Assembly Hall, Student Union, 10:10 A.M.
Jr.-Sr. Stag Hunt