

TECHNOLOGY NEWS

"World's Greatest College Newspaper"

Vol. 26—No. 8

Z143

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.

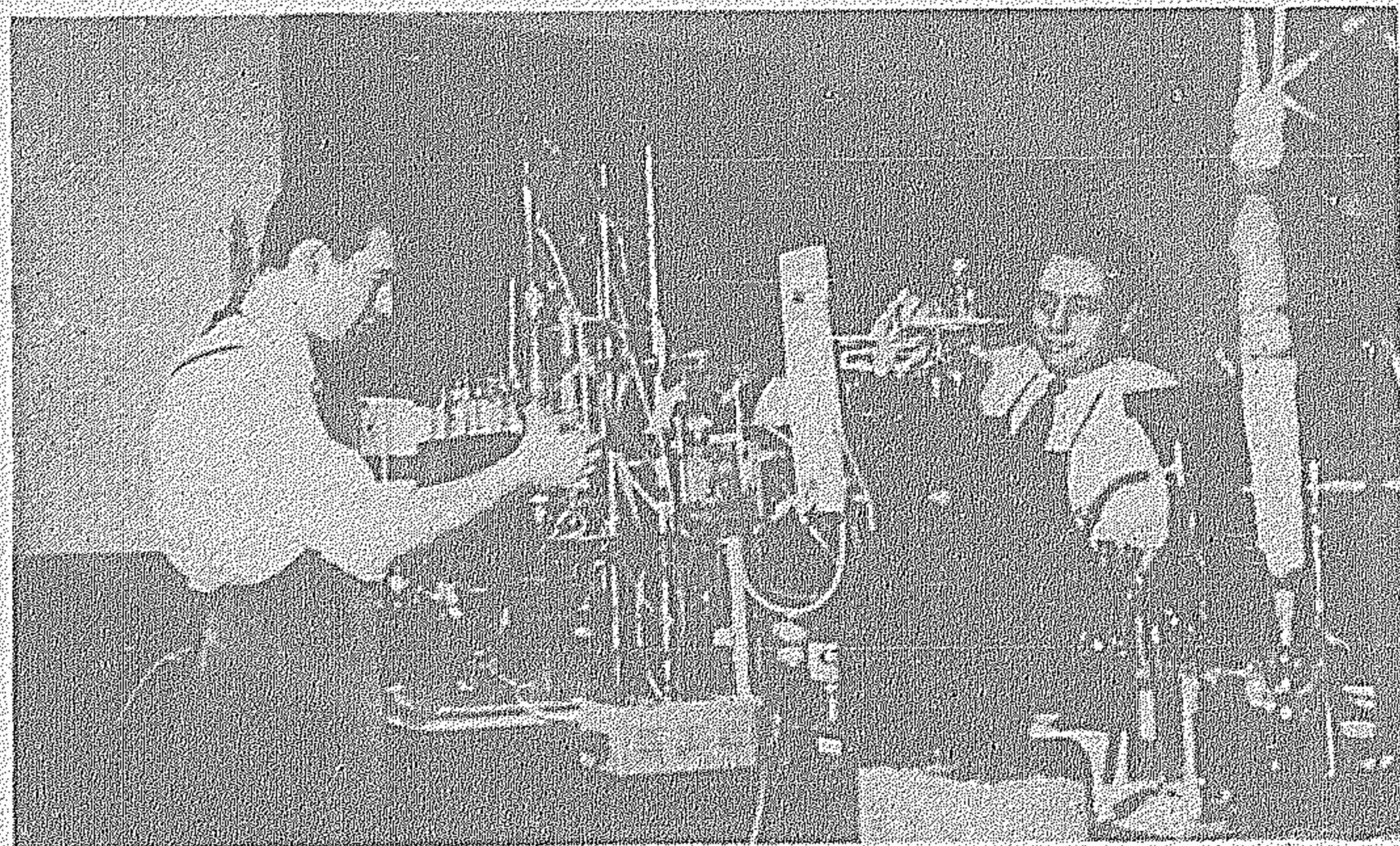
Working with Dr. Murray are graduate students R. H. Saunders, H. J. Taufen and R. E. Dineen in the making of compounds for study under the Raman spectrograph. They are also studying the oxidation of substances by the atmosphere and substances which are insoluble in water but become soluble when silver 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. Leskisen and Harry Levinson turned the tables by doing the lecturing instead of the customary listening. Leskisen 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 Leskisen'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 Longin "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

TECHNOLOGY NEWS

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Graduate Lectures—

We were not a little surprised last week to note the unusual manner in which the graduate school supports the so-called graduate school lectures. It is certainly not too much to expect some representation from this group at their own functions and the pitiful total of one person at last week's lecture was not to the credit of our otherwise flourishing "top form."

If the students of the graduate school are too busy or lack interest for graduate lectures we can see no reason for publicizing them as such. Mr. Larkin's talk of last week was of sufficient interest to draw a number of day school students to the meeting. However, this publication does not knowingly give false impressions in its news columns. We suggest that if the graduate school is not interested in these lectures that they be discontinued and the speakers invited to regular student meetings.

Open Door Policy?

The increased occupation of Chapin Hall during school hours is aggravating a condition which has long annoyed students and faculty having occasion to enter and leave that building. We are speaking of the apparent policy of allowing only one door at each entrance to swing freely, the other remaining closed at all times.

In direct contradiction, most municipal fire codes require that "Every exit of a public building must be so constructed that all doors swing outward and can be easily opened from the inside at all times of occupancy of the building."

At busy hours of the day as many as 200 persons attempt to pass through one entrance in the space of two or three minutes. The comparatively small opening afforded by one door creates considerable congestion about the entrance at these times. Not only is this a serious life hazard, but, we believe, an unreasonable annoyance to students and faculty.

The entrances to the building are so constructed (entrance hall with two sets of doors) as to pre-

Galluping Poll

Armour And Lewis Students To Decide On Name Of Yearbook

By James Murray

During the past week there has been much talk about the name of the year book. Opinions on this issue vary quite widely, but briefly the situation may be summed up as follows. Lewis students demand a change in the name, while Armour men are split as to whether the change is necessary.

First of all the viewpoint of the Lewis student will be reviewed. Were the coming annual to be called the *Cycle*, those knowing it to be the Armour yearbook in previous years might be misled, thus not giving credit where credit is due. A new name for the yearbook, is in perfect uniformity with the new title assumed by the two schools now consolidated. Thus a new title will then be directly associated with Illinois Institute from the very beginning. A few asked if the title of the Lewis publication would be fitting, but since this book was called the *Lewis Annual* it is obvious that this name is impractical.

Armour Men of Various Opinions

On the south side "campus" the student body was definitely split on the question of changing the name. But since every question has two sides, this was to be expected. Those favoring the name of the former Armour yearbook, based their decision on the following reasoning. Since this name has no connection with engineering or architecture it cannot be argued that this shows partiality in this respect. Too, since this name by definition implies a review of the time elapsing since the last similar publication, it is a fitting title for a book which really performs just this function.

On the other side of the fence, those favoring a change were of the opinion this is the only fair thing to do. This group reasoned that were there no change, it would appear that Lewis students are merely being "permitted" to partake of the Armour functions, while in reality this book no longer is representative of Armour alone, but of the new *Illinois Institute of Technology*.

Poll Held Over Second Week

So, fellow students, this poll was purposely extended to two weeks. The first week we hoped would start the ball rolling on this important topic. Now this, the second week, your representative will be on hand to receive your suggestion as to the new name. Although many argued in favor of a change, there was not even one feasible suggestion for the new title.

In hope of contacting all students of Lewis, Pat Arns was added to the staff of representatives, so Lewis students may now see both Miss Arns and Minette Hirst.

vent any great loss of heat through them even if all doors are used. In fact we can see no plausible reason for the present practice of cutting the entrance area in half. On behalf of the student body, we strongly urge the opening of the locked doors during the school hours as a matter of safety, if not of convenience.

Smoking At Lewis—

Do we have to smoke? Perhaps some of us will answer, "We don't have to, but we want to." O.K., let's smoke, BUT let's smoke in the proper place—the cafeteria. Is it really too much to ask us to dash down to the cafeteria for that in-between-class puff?

When the administration allowed us to go into the cafeteria at any time for "that smoke", it was hoped that we had seen the last of smoking in the corridors and classrooms. But no, some of us are not as considerate of our other classmates and the wishes of the administration as we should be. Perhaps we are not as careful as we should be with discarded "butts" and lighted matches, as was evidenced by the fire on the fifth floor last week.

When our activities endanger our safety, it's about time that we make a complete change of them. If we are to expect additional advantages and concessions from our administration, we must co-operate with it. The Student Council joins with the officials of the Lewis division in prohibiting smoking in the corridors, washrooms, and classrooms and restricting it to the cafeteria. Let's cooperate and do our part in this matter.

L. S.

Many Interesting Books Added To IIT Libraries

According to Mr. Smith, the head librarian at the Lewis library, a great many books of unusual interest have been added during the past three months to the large collection of books already held in the Lewis library. In order that the students of Lewis may gain some understanding of the background of current events, considerable attention has been given to the purchase of books dealing with world conditions.

Current Topics

Among the most important of these books are *America in Mid-passage* by Charles Beard, a history of the U.S. during the 1930's; a revised edition of Gunther's *Inside Europe*, giving recent information regarding the conflict in Europe; *Why England Slept*, by Kennedy, a keen analysis of British diplomacy during the rise of Hitler; *They Wanted War*, by Tolischus, which is, to date, considered the best and most readable study of Hitler and his rise to power, and *The Imperial Soviets*, by Wolfe, an examination of Russia in the light of the World War II.

Biography and Economics

Interesting additions in the field of biography are *Abraham Lincoln: The War Years*, by Carl Sandburg — considered without doubt to be the greatest biography of Lincoln yet written; and a Pulitzer Prize winner, Van Doren's *Benjamin Franklin*.

In the field of business and economics, *Bottlenecks of Business*, by Arnold, and *Capitalism the Creator*, by Snyder, have been added to the already extensive collection of books in this field. The latter book is a controversial study of capitalism, which Mr. Willkie has quoted during his campaign.

Art and Fashion

Among the new fine arts books are *Figure Construction*, by Bement; *Modern American Painting*, by Boswell; *Decorating Livable Homes*, by Burris-Meyer; and *Theater Hand Book*, a useful one-volume encyclopedia on drama and the theater, by Sobel.

In the home economics field, books on how to be well groomed and well dressed: *Designing Women*, by Byers and Kamholz; and *Fashion is Spinach*, by Hawes, are the newest additions.

Literature

Many books have been added to the literature collection. Among them are *How to Read a Book*, by Professor Adler of the University of Chicago; *New England: Indian Summer*, by Brooks; *The American Language*, by Mencken—an entertaining, yet scholarly treatise on the language of our people; *Nine Plays*, a collection of some of Eugene O'Neill's best-known plays; *Native Son*, a novel of negro life in Chicago, by Wright; and *Modern British Poetry*, by Untermeyer.

Periodicals Donated

Current issues of automotive mechanics magazines are in the library's collection of periodicals which circulate, and some of these magazines are *Advertiser's Digest*, *American Automobile*, *Anti-Friction Bearing Data*, *Automobile Digest*, *Automotive maintenance Association News*, *Automotive Merchandising*, *Automotive*

Service, *Battery Man*, *Canadian Service Data*, *Chevrolet Dealers News*, *Edison Industrial News*, *Garage News*, *Industrial Marketing*, *Link-Belt News*, *Magazine of Light*, *Motor Service Magazine*, *Motor West*, *National Automobile Dealers Association Bulletin*, and *Tire Review Bulletin*.

Silence Rules

A complete list of the new books in the Lewis library, of which these are just a sample, will be issued soon.

A great improvement in the library, innovated by Mr. Smith, is a rule that complete silence is demanded at all times so that those who wish to study may do so.

Professor D. Roy Mathews, of the history department at Lewis, is about to publish a book entitled *The Refugee French Clergy in England from 1792 to 1802*. It will not be ready for press for about six months.

The book is a study of the high ten years of the French Revolution, during which time some 60,000 clerics were exiled from France, 10,000 of whom went to England. Where they were supported by public and private funds, and spent their time in teaching and farming, while living in the homes of catholic families as priests, and also as guests of other families.

Armour Additions

Armourites will now have something with which to pass the long winter evenings. Miss Nell Steele announced, on November 15, the addition of more than a hundred books to the library. The books vary greatly in subject-matter, from technical works to recent best-sellers.

Most of them, however, deal with such mysterious matters as strength of materials, photography, electric motors, fire insurance, surveying, labor relations, and accounting principles. Lists of these books and the other additions may be obtained in the library. Several technical works cover more general subjects. Among these is *The Fight for Life* by Paul de Kruif, author of *Microbe Hunters*. Another is Louis Broglie's *Matter and Light*.

Booth Biography

Lovers of biography will enjoy reading Osa Johnson's *I Married Adventure and Country Squire in the White House* by John T. Flynn. The latter weighs the merits of President Roosevelt and should have especial interest, because of the recent election. Presidential affairs of another era are the background of *The Man Who Killed Lincoln*, P. Van Doren Stern's well-written study of John Wilkes Booth.

Parker Collection

The field of fiction is represented by many significant works. Chad Hanna, by Walter D. Edmonds, and F. Van Wyck Mason's *Stars on the Sea* are two outstanding American historical novels recently added to the stock. Readers of historical fiction will also be glad to learn that Rafael Sabatini's *Master-at-Arms* has been added. *Here Lies*, a collection of light humorous work by Dorothy Parker, is recommended for after-quiz perusal. The highlight of the new fiction is Richard Lewellyn's *How Green Was My Valley*. It's a simple story of Wales.

HAESLER'S DRUG STORE

DAMEN and MADISON STREETS

Fountain Service, Lunch,
Homemade Ice Cream—Double-Rich
Fresh Fruit Flavors At All Times

Sr. Dance Site Grand Ballroom Of Drake Hotel

As has been the custom in previous years, the Senior class of Armour will hold their annual dance Friday evening, December 20. The date, the day that classes are dismissed for the Christmas vacation, was decided on after lengthy deliberation by the Senior social committee.

At The Drake
Among many important considerations that have been studied by the committee is the place of the dance. After a careful survey of the leading metropolitan hotels, the Drake was decided as the scene of the Senior dance. To insure plenty of room for the twinkling toes, both the Main ballroom and the adjoining Towers room have been obtained for the evening.

Although no definite plans regarding an orchestra have been made, the committee has been hard at work selecting the most desirable music for the time-honored event. The general scheme of the evening is to have one big and one small band. This idea of two bands is not new, for the Seniors used it with great success in their Junior formal last March.

Informality will be the key-note of the dance, the Senior Christmas party. Because of its nearness to Santa Claus time the date, December 20 is considered ideal for such a theme.

Football Team To Hold Dance For Sweaters

A cheery social note to brighten the coming winter's bleak blasts is the new football dance. The boys from Armour football team will conduct the affair Friday night, on the Student Union lounge's dance floor.

Considering the importance of the affair, the mere 75 cents charged for bids is very nominal. It will be worth the price of admission to see some of the football stars, so agile on the gridiron, shimmy around the dance floor.

To Purchase Sweaters
In charge of the dance will be the men who have played on the Institute's unofficial tackle team. From the proceeds of the dance, the students plan to purchase sweaters for the team.

"Even if you don't support us on the football field," say the members of the team, "please turn out and support us on the dance floor."

Scavenger—

(Continued from page one)
When the exuberant throng returns to the Union, which will be around 10 o'clock, the various trophies collected by the teams will be weighed and measured, and proper prizes awarded. After this ceremony, tasty and nourishing sandwiches will be supplied in quantity to the crowd. Barrels of cider will also be available. The remainder of the evening will be spent indulging in some good, old fashioned stag games such as poker, pinochle, etc., and in a general "bull" session.

Tickets Out Today
Because of the limited capacity of the Union for such an affair, only 150 tickets will be distributed. It is expected that these ducks will go on sale today. These passports to an exciting and hilarious evening are but 50 cents, and may be begged from Bud Murray, Fred DeMoney, Art Hauswald, Bob Greenberg, Thurber Stowell, and any senior commissioner.

Practice To Supplement Theory In New Air Conditioning Laboratory

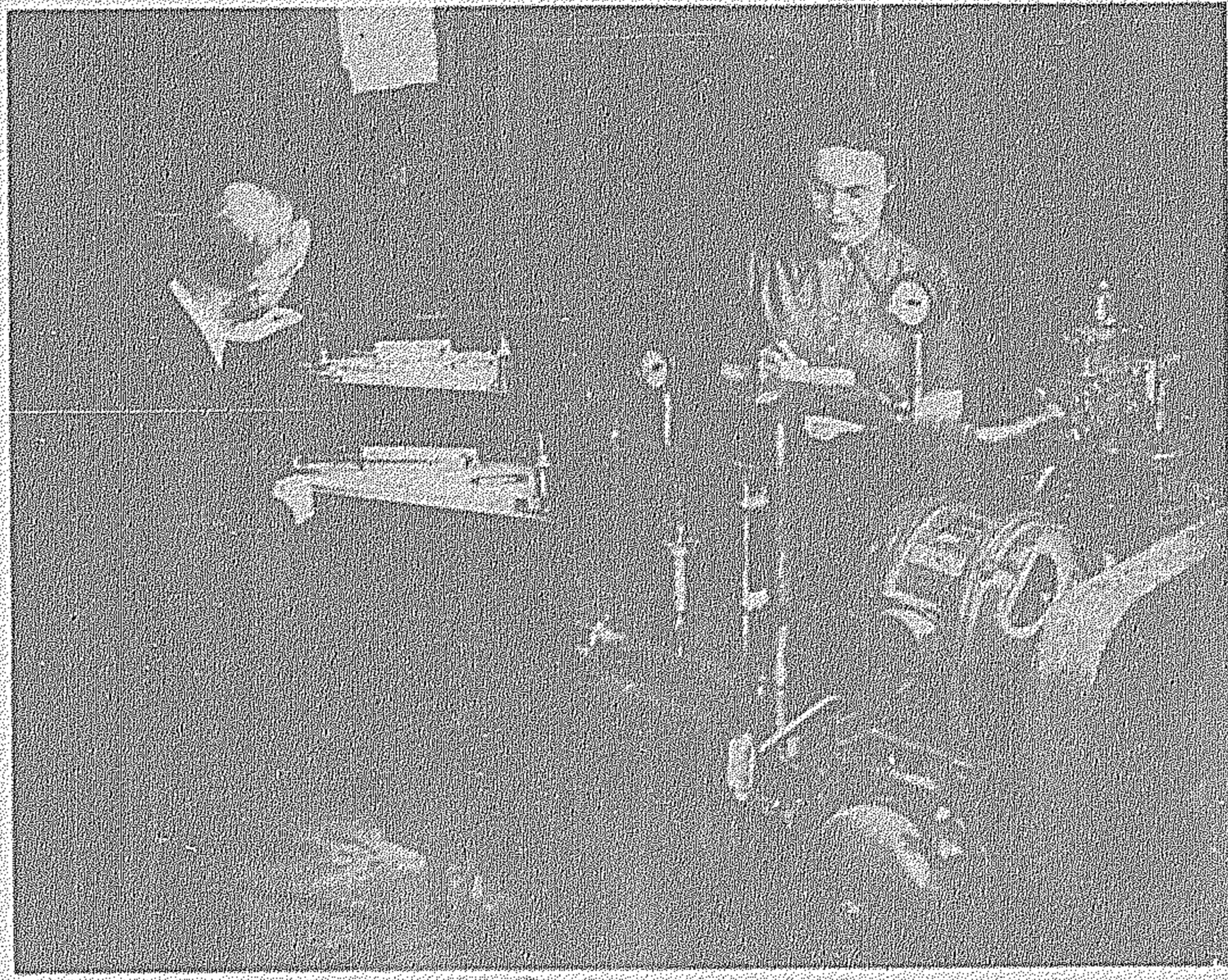
Air-conditioning and refrigeration have finally made their formal debut at Armour College on a truly commendable scale. A brief inspection of the newly christened air-conditioning and refrigeration laboratory in the basement of Machinery Hall will readily illustrate the benefits of this innovation.

The installation has made possible the replacement of theoretical courses in these vital subjects by actual experimental study using commercial machines. The new equipment shares the room with some older steam machinery formerly located in the Main Building.

Peebles Instructs
All mechanical engineering students and probably the fire-pro-

ated back against the rear wall of the laboratory. This consists of a complete air-conditioning unit which is capable of performing more feats than a flea circus. Air enters this long tunnel-like structure through an adjustable damper at one end. A powerful blower attracts the unsuspecting air into the machine and then whisks it along through treatments which vary in temperature from a cold shower to a stroll over the burning sands of the Sahara. The air is first subjected to a series of very fine sprays of water. These may be adjusted to merely wash the air or to add or remove moisture as desired. For example, summer air might contain excessive humidity. In this

SOME LIKE IT HOT!



Prof. James C. Peebles gives the pilot tubes the eye as Betty Reese takes down data in a test of the new air conditioning unit in the basement of Machinery Hall. To the right is the special Freon Compressor.

By Anderson and Raymond, Staff Photographers

tection and chemical engineers are to utilize the modern facilities of the lab. during their mechanical laboratory courses under the guidance of Professor J. C. Peebles.

Probably the first collection of pipes, dials, valves, and other choicely assorted screws and bolts which opens the eyes of the uninformed visitor as he enters the spic and span room is a commercial water cooler. It consists of a series of cooling coils connected to a five-ton Freon compressor, the latter having been graciously donated by the Mills Novelty Company. The cooling medium in the machine is Freon, which is a gas under ordinary conditions. This compressed gas is led from the compressor into a water-cooled condenser where the low-temperature causes the gas to condense to a liquid. Next the compressed liquid is allowed to expand into the gaseous state through an injector valve. As the expansion of a liquid into a vapor absorbs much heat, the water, which is passing over the pipes containing the expanding gas, is cooled considerably. The compressor has a capacity of five tons; this may also be expressed as the removal of 60,000 B.T.U.s. (British thermal units) of heat per hour. This means that the device will cool between six and seven gallons of water per minute from a temperature of 65°F (approximately the temperature of tap water in summer) to 45°F. Commercially this type of machine is used to cool everything from babies' milk to beer. Incidentally, many room-coolers work on a similar principle, with the air being blown over a cooling coil of expanded Freon gas.

Complete Unit
A second piece of apparatus (and by far the largest) is situ-

case the water sprays would be controlled so as to cause the condensation of undesirable water vapor. In winter the situation would probably be reversed because then it is necessary to add moisture to the dry, cold air.

Versatile

The next element of the unit is a steam heating coil which has a capacity of 375,000 B.T.U.s per hour. This coil resembles an automobile radiator and heats the air when added warmth is necessary. After the air has passed over the heating coils, it travels through the cooling coils (no fooling)! The explanation of this apparently paradoxical situation lies in the fact that heating or cooling effects are usually desired at different times. Thus one element operates while the other does not. This arrangement allows the air-conditioning unit to function the entire year round, giving a completely versatile type of air-conditioning.

The cooling coils of the machine are similar to those on the water cooler mentioned previously. Freon is again the cooling medium; the same type of compressor is used in both cases. The ILG Electric Ventilating Company donated the air-conditioning unit proper, while the thermostatic controls were supplied gratuitously by the Powers Regulator Company. The thermostatic controls automatically govern the temperature of all elements of the unit. The entire device is designed to demonstrate the complete possibilities of a commercial installation. Students will conduct various tests with the equipment, including humidifying, dehumidifying, heating, and cooling.

Safety Devices
A very important advantage en-

(Continued to page seven)

Britain-U.S. Naval Trade, Subject Of Graduate Lecture

What will be the result of the recent trade between the United States and Great Britain? Such was the topic discussed by Dr. John Day Larkin last Friday, November 14.

Two points were brought up by Dr. Larkin. One was whether or not the President or Congress has the right to authorize such an agreement and the other concerned the complications of this act with International Law.

Throughout the history of our government, the President of the United States has had the power to receive ambassadors, dismiss them, and to recognize foreign governments. Since the President receives foreign delegations he should be the one to make arrangements for international agreements. Theodore Roosevelt made several agreements following the Spanish-American War which Congress did not ratify. Theodore Roosevelt then preceded to put these agreement into effect through the channels mentioned above. Also the President being commander-in-chief of the army and navy would have authority to make a trade which might prove beneficial to the army or navy.

Congress claims its right to exercise such agreements exists in the fact that Congress must appropriate money and equipment for the army and navy.

Lewis' Seminar Has First Meet

Lewis Undergraduate Chemistry Seminar held its first meeting of the quarter at 3 P.M. last Thursday. A 200 gram sample of Flossie Moss', superb cake and 150 cc of coffee were used in the first experiment.

Mr. Norman Kharasch addressed the group on the purposes of the organization in giving the student an opportunity to express himself, an ability which Mr. Kharasch asserted is as important as the knowledge of the science itself. The second objective of the seminar is the formation of a Lewis Chemical society, which may at some future time become affiliated with the American Chemical Society. He summarized the purposes of the seminar by the symbol C3 meaning coffee, cake, and chemistry.

Dr. Duncan MacMillan was introduced by Mr. Kharasch, and spoke on the liquid ammonia series. After his brief talk on the solubility of compounds in this medium, the meeting was opened for group discussion.

Florence Moss, Lowell Stevenson, Harriet Kott, and Allen Falkman were named as a committee to arrange the details of membership, dues, and programs for the remainder of the quarter.

Math Is Applied To Plasticity In Sadovsky's Talk

"Applications of Differential Geometry to Plasticity" was the title of a lecture by Dr. Sadovsky of our mathematics department. This talk is one of a series of lectures held every other Friday in room 105 Chapin Hall.

Helpful to Engineers

In his discussion the speaker emphasized that the subject is quite complicated and can be approached from two different standpoints, one phase is the engineering aspect of plasticity, and the other is a pure mathematical analysis which can then be applied to the actual case. Dr. Sadovsky has written a detailed paper on this topic, and he says that engineers have found his method of analysis very helpful for the solution of some practical problems.

Steel Slip Lines

Finally Dr. Sadovsky showed photographs to demonstrate the experimental evidences for his theory. These photos show certain slip lines in rolled steel, the shape of which agrees very closely with the shape that has been predicted by the theory.

Since some of the theory is based on equal differential areas, some of the experiments require many accurate measurements and a multitude of tiresome computations.

Department Busy

This afternoon Dr. L. Ford will lecture to the Mathematics Club at Northwestern University. His talk is scheduled at 4:30 in the afternoon in room 323 Music Hall, and the theme is "Conformal Mapping and Its Engineering Applications."

Following the lecture the Mathematics Club will give a dinner at 6:15 p.m. All members of the mathematics faculty and their wives are cordially invited, and many of them expect to attend.

Special Systems

One of the most important concepts in all mathematics is that of ordering relation. Perhaps even more important than "simple" ordering, such as occurs for integer, real numbers, etc., is so-called "partial" ordering. Professor Wilcox, in the near future will discuss recent developments in the theory of partially ordered systems, with particular reference to their applications to the foundations of geometry.

Early in December Dr. Sadovsky will go to New York to present a paper on this new method before the American Society of Mechanical Engineers.

The next lecture of this Friday morning series will be given November 6, at 10:10 a.m. in room 105 Chapin Hall. Dr. John DeCicco will speak on Differential Elements.

Thanksgiving Greeting Cards

(We feature Hallmark Cards)

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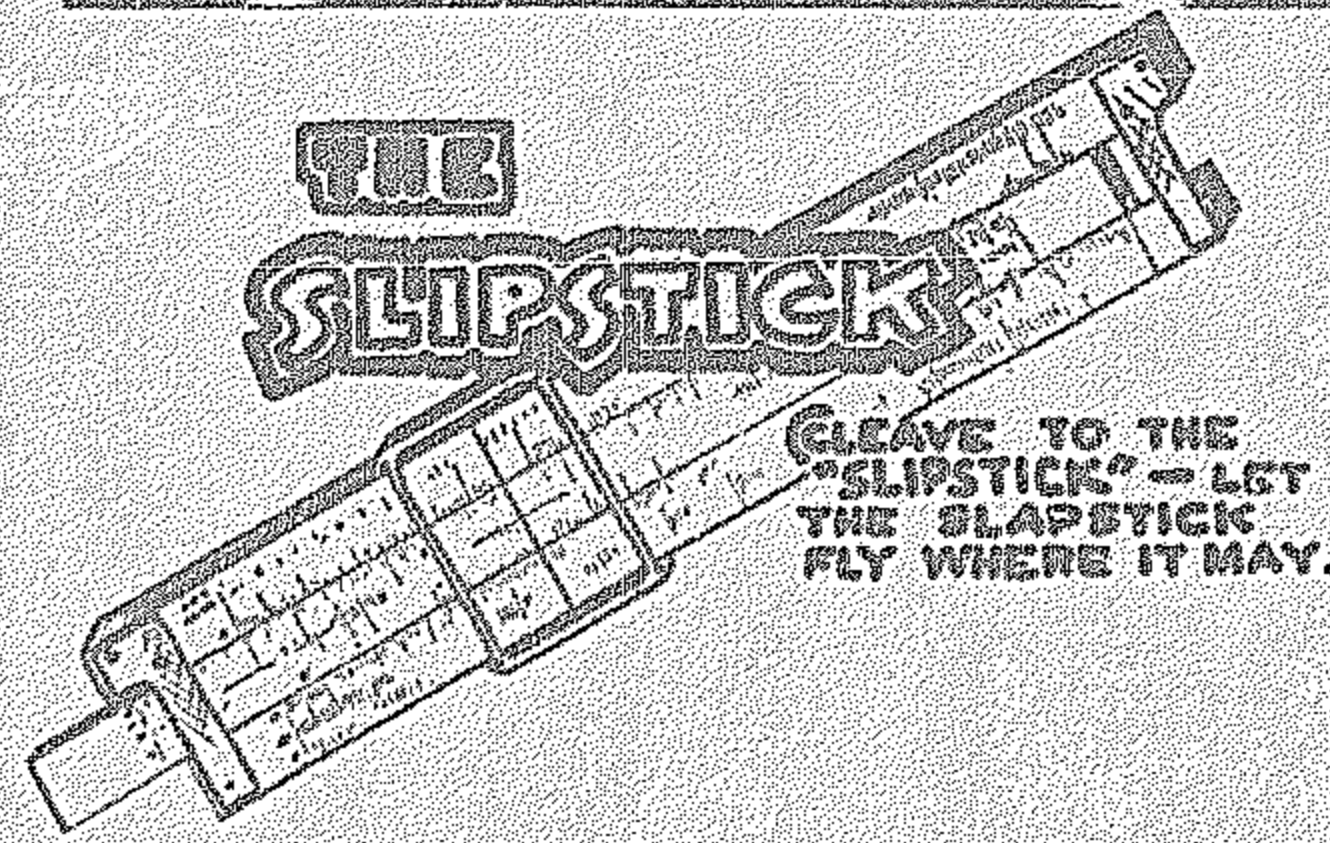
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A pictur' that no painter has the colorin' to mock — When the frost is on the pumpkin and the fodder's in the shock.

James Whitcomb Riley (Here she comes, yep, Thanksgiving. Still comin' a little ahead of schedule. Wish't I could make the rounds Thursday.)

A negro funeral once was attended by a ventriloquist whose peculiar powers were not known to the others present. Another negro told what happened at the cemetery.

"Well, suh, "he started, "when dey begins to lowah Rastus into de hole, he says 'Lemme go down easy, boys!'"

"Did they go ahead and bury him?" "How de world does I know?" came the reply from the first negro.

Van: "A girl's greatest attraction is her hair."

Jack: "Nope, I think it's her smile. What do you think, Ray?"

Ray: "I think the same as you do boys, but I don't lie about it."

"Don't you know you'll ruin your stomach by drinking so much?"

"Aw, thash all right, it won't show with my coat on."

YOU AINT LYIN'

Dash off a rhyme that the students like; Cleverly phrase it and mildly scent it; Offer it up with a joyous heart—

And never a censor will let you print it. Dash off a rhyme that the censors like:

Muffle it, soften it, tame it—bleed it! Offer it up with a weeping soul—

For nary a student will ever read it.

At a Thanksgiving dinner in New York last year, a well-known professor was called upon to speak. In introducing him, the host said to the guests:

"You have been giving your attention so far to turkey stuffed with sage. You are about to give your attention to a sage stuffed with turkey."

Boss—"Do you know anything about ladies underwear?"

Applicant—"Of course I do. I ride the L's everyday."

A traveling salesman had missed the bus and found out that it was two hours before the next bus left the little town of Jarkvill. Wondering what to do he approached a native.

"Say, is there a picture show in town?" "Nope."

"A poolroom, or a library?" "Nope."

"Well, gosh man, how on earth do you amuse yourselves?"

"We all go down to the grocery store in the evenin' and watch the bacon slicer work."

Very late one night, two chaps who had been imbibing too freely were sitting on the pavement with their feet in the gutter. One was heard to say to the other, "What does your wife shay when you shtay out late like thish?"

"Haven't got a wife," the other replied. "Then why do you shtay out late like thish?"

Ann Arbor: "If you don't leave now I'll call the whole police department to put you out!"

Newell: "Baby, it would take the whole fire department to put me out!"

There was an old man from Nantucket Who kept all his cash in a bucket; But his daughter, named Nan, Ran away with a man— And as for the bucket, Nantucket.

Signing off again. Don't eat too much of that turkey!

"OH MIN"

Blitzkrieg!

Brrrrr!

What with all this cold weather and stuff, your pore old columnist is so fruz that he can hardly punch the keys on Tillie, the old typewriter. (It looks just the same to us. Are you sure you can type? Ed.) Winter may be upon us, but the Blitzkrieg can still make plenty of people hot. For example see (H.H.) who does not like to be printed about . . . Al Falkman, I Tappa Keg's Vice-President in charge of Wolfing, asked me as a special favor to print the following notice: "Open challenge to the Armour Wolfing Club! We, the Wolves of Lewis, hereby challenge you to a contest in the age old art of wolfing." For further details see A. F. As a special warning to the Armour lads I think it is only fair to add that Uncle Al uses a scientific psychological technique . . . They tell me that Kaplan, who is doing h's practice teaching at Crane is having quite a time with his "little" boys. They have no respect for dignity and insist on punctuating recitations with spit-balls, erasers and other lethal weapons. Chin up, boy! It's all for the profession! . . . "One In a Million," that's the way Clarey Mae felt when she went to the last Dance Club Meeting at Armour . . . Note to the Freshmen Engineers: Children should be seen and not heard or known to throw lighted cigarettes in wastebaskets. And while on the subject, who put out the fire on the fifth floor? Some say it was "Fireman" Bill Fischer to the rescue . . . News is still pouring in about the Arx dance. The dialections seem to have been a little confused about Bob Meyer's song styling. He claims it is about as Swedish as Greenberg's name. Have you heard about Bob's covey of Mile-ormore birds? And don't forget Rae Berry's beautiful rendition of that ballad about the horse who bashed the cowboy's haid. Is Emily still peeved? . . . Have you heard about how Willard Fisher picked his first date? It seems it was through a very detailed process of elimination with a final drawing of the lucky girl's name from an old fed. ora. Gee, I wish I were popular enough to have so many eligibles on my waiting list . . . What fella recently acquired the name "Crash" instead of Fredrick "The Great" Hummel? It's a good story. . . And to my "Pal" the Steam Shovel on the matter of competition. By your own admission you say that nothing is better than your column. Well, pal, You gotta admit that ours is better than nothing. Figger the rest out for yourself . . . Mary Ann and Elaine have 'so much food in their locker that they are expecting the termites to give a banquet any day. Wednesday they capped the climax by serving punch to the loiterers in Lambda row. How can two such little girls consume so much victuals? . . . What goes on between Alice Moffet and Gustav Killian? She can be seen at the bike races any afternoon screaming her head off to spur her favorite on to victory. Dick and Jack sallied into the infield Monday but couldn't get to first base with "Margie" who found Cecil Yates a little more interesting than our stalwarts. For the inside dope on the race fraud see Art Peterino. He works for Torchy Peden, girls . . .

Now a Happy Thanksgiving to yez all and a prayer that you all won't be working on those term papers all of the 21st.

Hasta next Tuesday (Spanish) THE FIFTH COLUMNIST

HERE'S OUR STORY

Getting out this paper is no picnic! If we print jokes, people say they are silly; If we don't, they say we are too serious. If we clip things from other papers, we are too lazy to write them ourselves; If we don't, we are too fond of our own stuff. If we don't print contributions, we don't appreciate true genius; If we do print them, the paper is filled with junk. If we make a change in the other person's write-up, we are too critical; If we don't, we are asleep. Now, like as not, somebody will say that we swiped this. WE DID!

— The Editors

Women Only

By Viodes

Hello! "How is your chassis? Classy?" If it is, you and Ann Sheridan have nothing to worry about—well, we'd best get started.

One of the most important points to note is height. Are you tall — short — or an in betweener? If you are tall you can wear the dressy pump with the little girl heel. And to make you tall girls feel better, just remember that if you wear high heels, he won't have to stoop when he says good-night. If you are short, you can also be consoled. The new high 3 3/4 inch heels can do wonders for any girl no matter how short she is. If you are classed as an in betweener, well, you're lucky!

Another item of great importance to many of the gals is weight. If you are a "Hefty Heddy"—let those sweets alone for awhile. Instead, buy yourself that "dream of a dress," the size you would like to fit into, and put it in a convenient place where you can look at it often. Then you'll refrain from sweets, and soon you'll be called "Heddy." Last but far from least — the dream dress will fit.

If you are thin, refrain from vertical lines — instead wear plaids. Clothes that have fullness and swing, are indeed, just the thing. An in betweener can wear everything! Some like them fat — some like them thin — some like them."

Could grandpa and grandma read this column they would say, "What's this world coming to? I can remember when styles were different." and grandpa might add that "Cars ain't what they used to be either." Clothes and cars alike have changed, and in some ways, a great deal in the same manner. The machine age has the streamlined lady and limousine. Hats were once cumbersome so were auto tops. Skirts were clumsy; so were chasses. Corsets were uncomfortable; so were back-seat springs. Hampered by their trappings, ladies moved sedately; the bulky gasoline buggy followed suit. It stalled, puffed smoke, proceeded uphill laboriously, if at all. Today all this is changed. Auto tops are curved to flow with the wind; so are hats. Hoods are slim and long; so is the modern torso. 1941's cars and fashions are well designed for comfortable efficiency—tapered to sleek lines and geared to proceed in high.

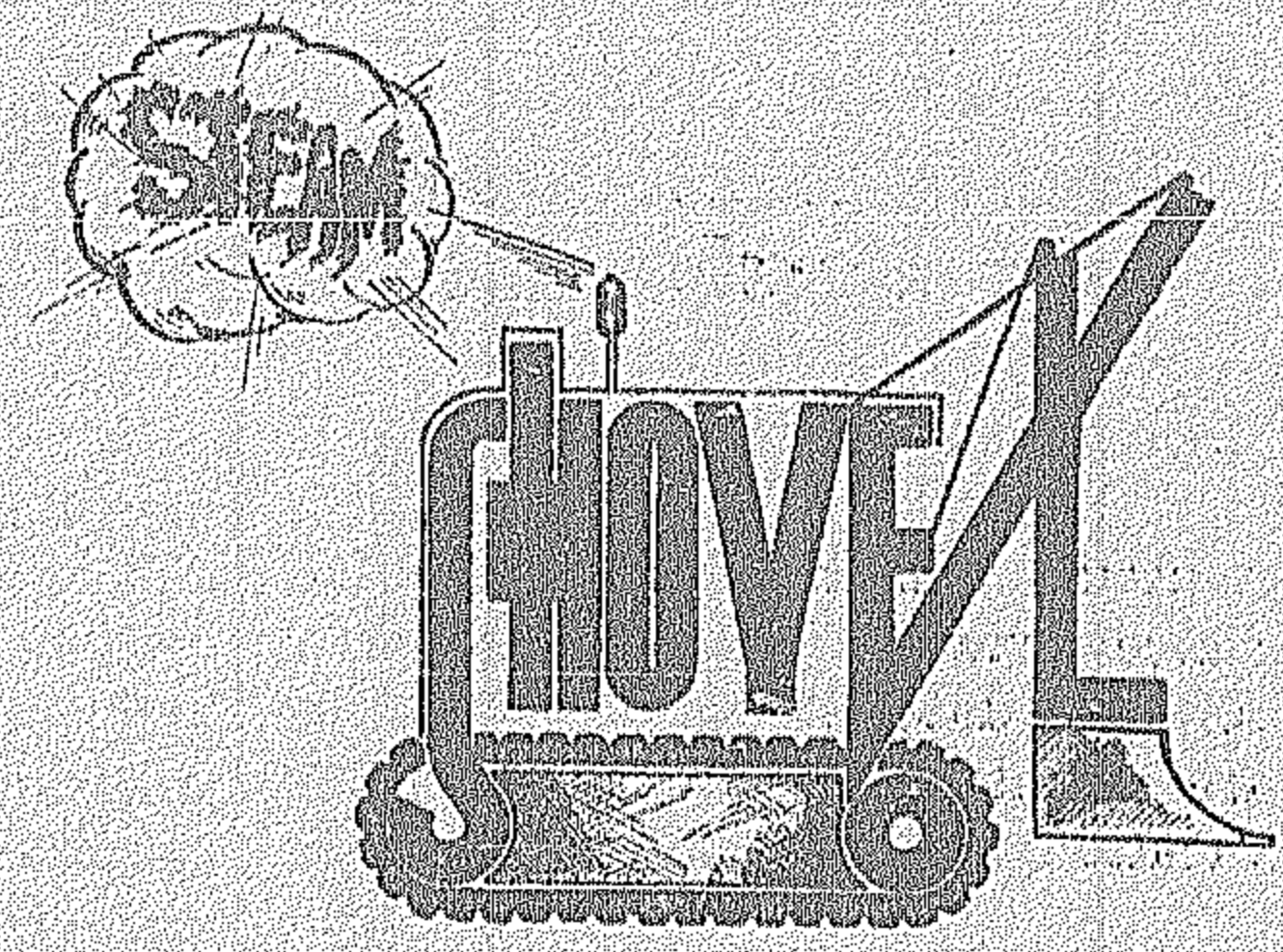
"A pretty girl is like a melody" maybe, but, "It ain't what you do it's the way that you do it."

Arx News

The following are paid want ads: Wanted: A companion in the Arch. Dept. who would be willing to go to a movie one afternoon per week, apply to George Larson . . . Wanted empty P.M. packages for a worthy cause, I would also like to sell one hollow leg, signed George Dickel (the man in the deep south and I didn't say souse) . . . One method of playing cards and not getting caught, signed the Senior blackjack players . . . Wanted contribs for this column . . . Wanted one redhead with . . . Censored.

Women, women, women and all sorts of double talk from Lenart, Pepsi as we know him as, and to think that in four years he has not taken a date to one affair, the noive of him, how could it be stood? . . . News from Alabama has it that Schneider is running stark wild . . . Suzy wanted the boys to bring back some of the Southern candy, maple sugar and nuts, ah yes, maple sugar and nuts to Suzy . . . Did Hyams come down to look thinks over or just to talk to Arkey and Suzy . . . Seen flashing around the tennis courts last week were the exponents of the body beautiful Center and Woehrl . . . Need a hair cut . . . come on down Pehta will scalp you . . . an alliteration. Pointek scores again! . . . First to introduce the buckle shoe era last year, he has now appeared in his latest creation which he entitles, "The return to the days of the Merry Oldsmobile" . . . The idea struck me he sez when that d . . . wind blew my green creation off the platform . . . Imagine how red your Ed. when he discovered there is no contrib box behind Joe's desk . . . and as one turkey said to the other one, "and shure Mike it's goin' to be a foine vacation."

SPECS



Well, here we are again as per schedule. Material is running low though (poetry) so how about some of youse guys misbe-havin' so we kin get the drop on youse, huh? Remember, in cooperation, there are two o's!

Leave it up to the Armour men to gum up the works! One proud little mamma had it all set for her daughter to sink her grapplers into a rich fish but alas! . . . Daughter goes for Freddy Lukens which is making Mother pretty peeved!

Last Friday, our friend, LeRoy Goetz, came down to school all rigged up in high tops, breeches, and a storm coat—all that regalia because of a one inch snow fall! When asked for a statement he told of rescuing a fair maiden that morning as he was on his way to school, claiming that she was marooned in a snow drift. Sounds rather odorous.

Suggestion to the Chicago Traction Committee: To reduce traffic congestion it would be a good idea to install a direct line from the Armour Campus to Rosary College.

Official report from Agent No. 3: Reporting on the latest romantic escapades of Bill "Cradle-Snatcher" Grosse. Bill went stag to one of the Sunday evening hops at the Edgewater and there met a—quote, "lulu," unquote — and immediately staked out a claim. The "boys" got wind of it, did a little investigating on their own hook, and discovered, much to Bill's embarrassment, that this "lulu" is only fifteen years old! Guy, you'll never live that down!

For four years Zenon Prane has been coming out against "college boys going steady" but Dan Cupid stepped in and twanged a well placed arrow "in the neck" and has completely changed the lad's ideas on this subject. The title of the above story is and justly, "what one blonde can do to a fellow's sense of balance, ability to think clearly, etc.

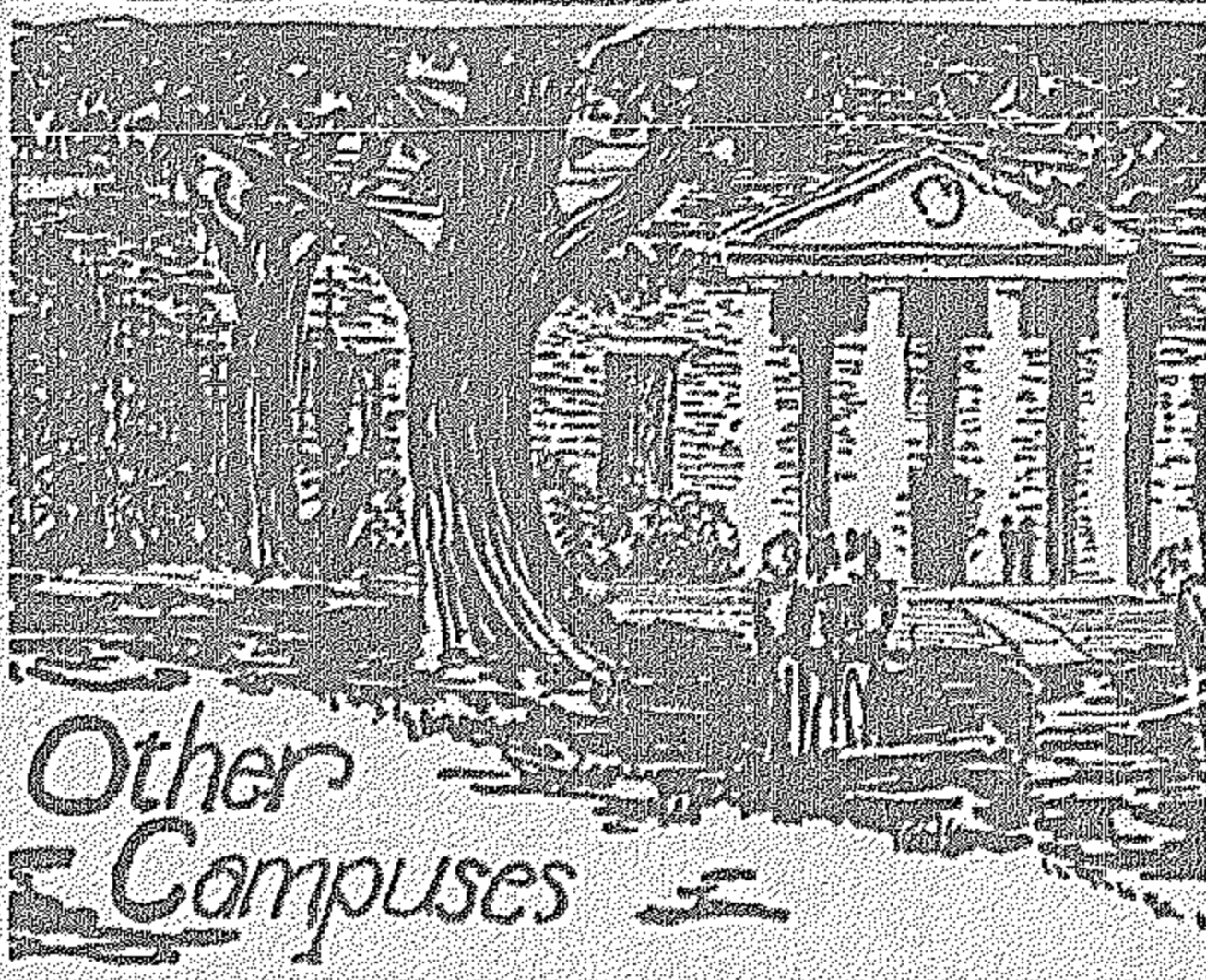
For the umpteenth time, Carl Pedersen has been "given the gate" by his gal and consequently is moaning all over the place. When reminded of that old adage "true love never runs smoothly" Carl exclaimed, "A guy likes to know where he stands don't he? Do you think he'll live, boys?"

Famous Quotes: Dr. Perlin: "The only curves that interest me are mathematical ones — but please don't quote me."

Those of you who were in the "caff" late last Friday afternoon undoubtedly "noticed" a luscious maiden in the midst of the Armour menagerie Elly Moore is the name and she's taking part in the Armour Players Production — Froat Page. When asked for a statement Miss Moore said, "I shall give my all for the play." Wow! watch that membership rise!

No Bells: Mourn ye Mechs, Mourn! No longer will the drafting rooms echo with Wayne King's melodious radio recordings. Gone are the days of "Little Joe," the portable. The Friday and Saturday Mechs took up a collection and bought "Little Guiseppe" to entertain them. But lo, the "Villain" entered, embodied in that paragon of the T square, Dr. Yellott and "Joe" emitted his last breath — "I'm Heading for The Last Round-Up."

What dreamy-eyed milk-drinking Co-op Caluminist (with that famous Aurora smile) after spending the entire evening at a recent wedding gazing mournfully and soulfully into Laverne's big blue eyes became speechless upon seeing his dream girl leave for the evening with his best Harvey "Comrade." Questioning the two on their departure H. F. K. shrunk to one-tenth his (Continued on page five)



Other Campuses

By Charles I. Ball

A Rutgers University male team recently defeated a New Jersey College for Women female team in a cooking contest.

By popular demand of the student body of Bradley Tech, Peoria, Illinois, Fred Waring recently wrote a new school song for them which was given a premiere last month on Waring's radio program.

Although he has lost his right hand, Duane Van Horn, Kentucky U. freshman, has applied for entrance in the R.O.T.C. basic course in military science and tactics.

David C. Nutt, Dartmouth botany junior, is a veteran Arctic explorer although only twenty years old. He made his first trip to the Far North to Greenland when he was only sixteen.

Beginning this semester, engineering students of Westminster College, New Wilmington, Pennsylvania, may take a five year course consisting of a three-year liberal arts course at Westminster followed by a two-year engineering course at Carnegie Tech. At the completion of the five-year course the student will receive a B.S. or A.B. from Westminster and a B.S. in Engineering from Carnegie.

According to a survey sponsored by the American Council on Education 16% of student deaths are caused by automobile accidents, 10% by heart diseases, and 8% by suicide.

Dancing to records has become very popular at low-priced student social affairs throughout the country recently.

Dr. H. C. Gossard, dean in charge of curricula at Eastern New Mexico College, has just finished a study on what professors do in their spare time. The results will probably not be made public—to students.

A miniature "Information Please" quiz was the feature of the Parents' Day banquet at the University of Kansas. The tables were turned because the students submitted questions in an effort to stump the professors. If a question was used, \$1 was given to the student who submitted it, an additional 50 cents was paid if the question baffled the prof. It's lucky we don't have to pay such a fine during the semester when the professors are discovering the extent of our ignorance.

The son of radio's Professor Quiz, Craig Earl Jr., is studying agriculture at Massachusetts State College.

Some of the features of "Hobo Day" at South Dakota State College were prizes for the most bearded student, the saddest, classiest, most humorous, and the best equipped student hobo.

Dean Ernst Bessey of the graduate school at Michigan State College has returned from Hawaii where he succeeded in obtaining 600 species of fungi.

The University of North Carolina boasts the oldest state university building in North America.

Michigan State is the oldest agriculture school in this country, being founded in 1853.

Mechfrosch

Attention freshmen engineers at Lewis! Here's your column (but you'll be sorry) Did anyone ever ask you, "Who's Yehudi?" Everyone says that I'm the little man who turns off the light in the refrigerator, the car radio under a viaduct, and perhaps you've heard other versions. Could be, but I can still report to you the many happenings of your fellow engineers.

I think to start off with a bang, we should get acquainted. At the present very few of us know each other by anything but our last names. So here goes with a few of the personal "handles" of some of our future geniuses.

The first man (???) that comes to my mind is our famous organizer "Butterball" Panek. He and John L. Lewis are running a close race this year. Gazing around, I notice "Quacky" Charland, Donald Duck's child protege.

LOU BREESE

Every class should have an older person to look after them and their interests. In view of the present situation (don't ask which one) we overwhelmingly elect "Grandpa" Gideon. If you ever see "Grandpa" walking down the hall trailed by something about knee-high to a grasshopper, that's "Big Bill" Jurcyn, Claracy's sparring partner.

Heil Stalin! Oh you don't know who he is? Well just look around for someone raising his fist in the proper salute. That's "Stalin" Schultz, head of the seventh column. He has many followers among our light-hearted engineers. Some of the followers are nick-named very appropriately, so I think I shall give you some inside dope (Judge accordingly). "Casanova" Sprugel, "Wild Bill" Downing, B.C. (brunette chaser) Carpenter, and "Ladies Man" Thompson are staunch followers of the seventh column.

LOU BREESE

Every class has to have its brain-trust, and so have we. "Squeaky" Heap, "Goldy" Stein, "Silent" Roskam, and "Smarty" Snodgrass compose our engineering trust.

Our famous last words are always ably spoken by "Stinky" Pierce, while "Shorty" Arboe is our basketball player.

For the present, Adios, Aufwiedersehn and Buenas Dias. I'll be back!

NOBODY'S BABY

STEAMSHOVEL ADDENDA

(Continued from page four)

normal size when his girl friend told him that she wouldn't be particularly disappointed if he didn't call her up. Krantz you're slipping!

From an usually reliable source we learn that Jim (Me and Lucius Beebe) Waber won by a nose in the recent race to be the first to date the new Co-op secretary. His triumph, however, has resulted in a noticeable change of temperature in the information office.

Lou Breese

Harry "Bones" Dolf showed extreme practicability (but little experience) in adding to the comfort (last week) of his first date in many a month. When the damsel commented on the chilliness of his car, Harry immediately reached over . . . and flipped the car heater switch!

At the Lewis mixer Friday afternoon: Dick (Bojangles) Larson, I.T.S.A. prexy, led the trucking in his irresistible manner . . . caught in the net were Alda Kairis (my she get's around) and Mickey Walker . . . Mickey looks like the sure thing for the Senior Dance (December 20, Drake Hotel, Lou Breese, \$1.75—and a give away at that) . . . those Lewis boys relied on an extended stag line (the first seen in many a moon at Lewis) to "protect" the coeds from a possible Armour Wolves' scourge.

We understand that Chuck (chassis expert) McAleer has been getting letters on scented note paper from Cornell every day since his trek to Mount Vernon. His only hope is that Bumps doesn't find out about it. My, what an innocent afternoon's stroll will do!

Fraternities

Delta Tau Delta held her annual Pledge-Formal last Saturday. The engineers and engineeresses all had a swell time showing off evening clothes and formals to Delt mascot George Beta, who barked his approval. The orchestra was plenty smooth and the guys and gals pitched a mean game of woo to its swiny tunes. Walter Hendricks and wife, were chaperones and fit in very well with the atmosphere and enjoyed the evening with the Deltas. It was hard to recognize some of the Armour ruffians in their tails, but introductions were made when necessary, and everyone regretted to hear "Home Sweet Home" ring down the curtain on a perfect evening.

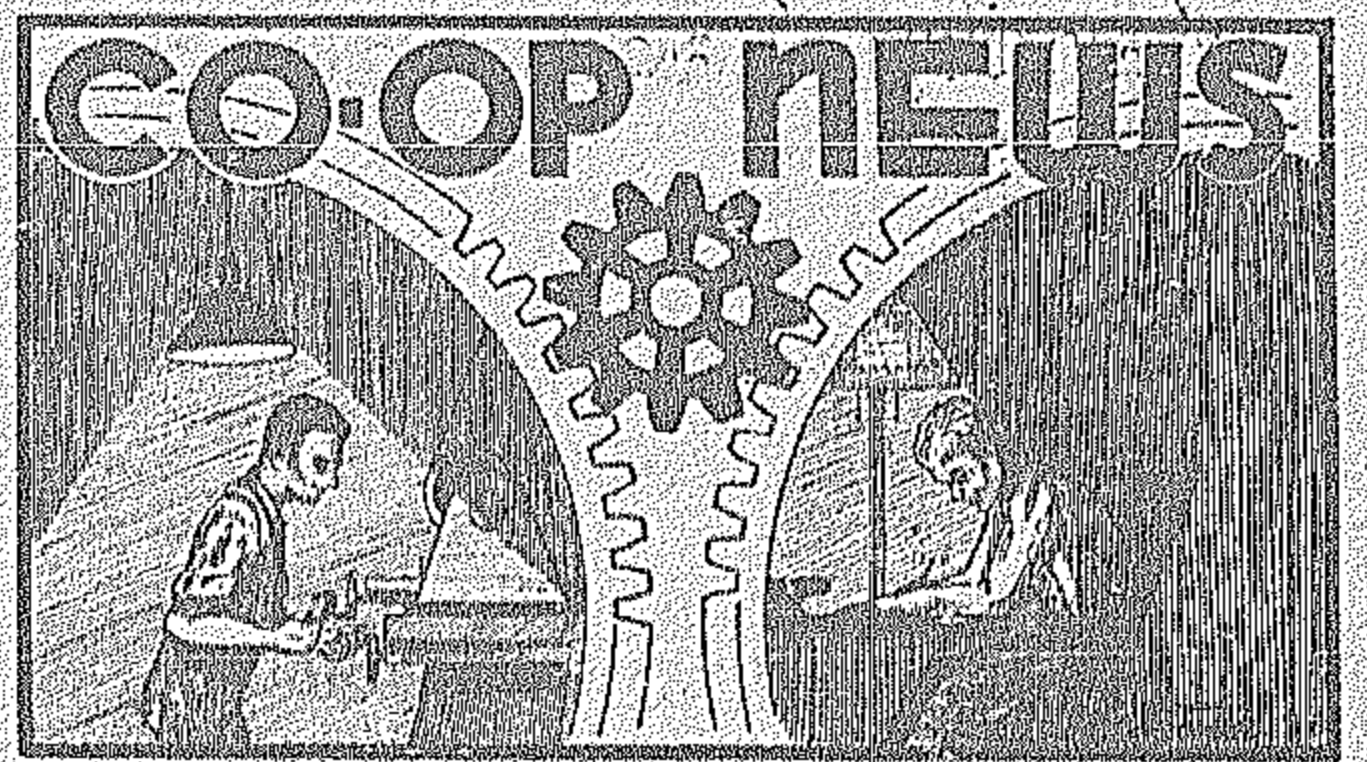
The Phi Kaps and Deltas took advantage of the snow to express their mutual friendliness in a couple of spirited snowball fights.

Pi Kap John Sauvage has just been pledged to Pi Tau Sigma. The Pi Kaps will open the wee with a game with Alpa Sig and close with a Pledge Dance on Saturday, November 22nd. The boys at the Pi Kap house were glad to welcome Collander back from the pretty nurses who've had him in stitches for two weeks, just because of an appendectomy.

PhiKap Grant Whitehead will resurrect his "29" Lincoln to tote the boys off to another bloody Struggle-Northwestern vs. Michigan. After the boys see how the experts do it, they will come home to play the Deltas for a barrel, and woe to the loser (the party is at his expense). Brother Olson (alias Fu Manchu) turned off all the lights at the Skull house by means of a candle, some string, and a door spring—Gad Zooks! An engineer.

Alpha Sig mothers kept all their chins wagging at the cardparty and luncheon held last Friday night in the top story ballroom. The Alpha Sigs are starting Thanksgiving vacation off right by staging a hayride tomorrow night at Green Tree Stables. The boys are all praying that they can look at their blind dates without wincing.

Hope of all fraternities—more women et Amour.



By H. F. Krantz

This week's collection of news briefs was gathered and penned by Frank Grote and the jolly juniors. Here they are: Oh, Mortimer, don't forget the Thomas J. Webb's coffee. Where have I heard that before?

The next time Hank Alderson flags a street car after getting out of his Ford, he had better make sure that his sweet little lady is on it.

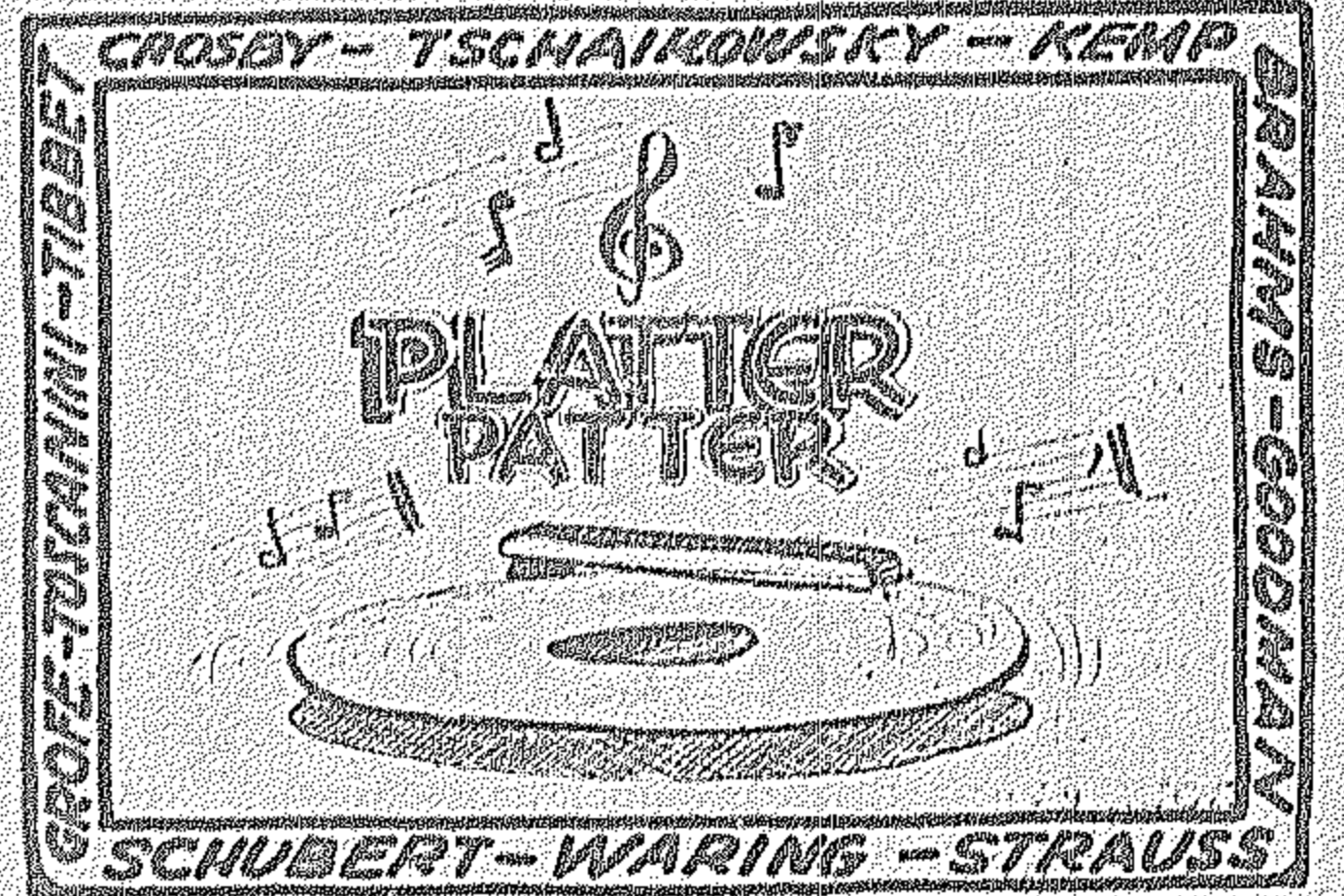
LOU BREESE

We wonder if this course in Auto Lab. will help Russel Hoffman and Barney Waslesco to get their cars started in the morning. If Russel would turn on the ignition, it would save him a lot of cranking. Barney's beautiful buggie has gone into hibernation for the winter.

"G. D. you Buck, I want to be a friend of Roe'sch," said Lobin after auto Lab.

Football has been postponed until better weather (we hope) comes around. The Seniors hold the lead with three wins and no losses. The Freshmen and Juniors both have won two out of three. As the Juniors must play the Sophomores and the Seniors must play the Freshmen, there is a chance for anyone of the three to win.

Several of the Co-ops are in the I.I.T. Ping Pong tournament. Our Dept. should have more single and double teams enlisted. Let's have some activity during the last three weeks of school.



By Bob Saigh

The husky voice of Bing Crosby and the smooth swing of the Merry Macs combine on "Do You Ever Think of Me" and "You Made Me Love You" (Decca-3423) to turn out one of the best releases of the month . . . "When April Sings" and "Waltzing in the Clouds" (Decca, 3414) from the New Universal picture "Spring Parade" are ably sung by Deanna Durbin with Charles Previn and His Orchestra . . . Tommy Dorsey and his Orchestra has the smoothie of the month with "You're Breaking My Heart All Over Again" and "Shadows On The Sand" (Victor, 26761). Both are played in the usual slow easy T. D. style with vocal refrains by Frank Sinatra . . . Victor this month also added a new artist to their staff of competent entertainers. Lanny Ross makes his debut with "Moonlight and Roses" and "Whispering" (Victor, 26784) . . . Glenn Miller and His Orchestra have an excellent recording of "A Handful of Stars" with "Yesterthoughts" on the reverse (Bluebird, 10893) with vocals by Ray Eberle . . . Eddy Duchin at the piano with a rhythm accompaniment give us an excellent album of all-time favorites. Included in this group are "April In Paris," "Easter Parade" and "Lovely to Look At." This set (C-32) consists of four-10 inch records in an attractive album, and is priced at \$2.50.

Something different is presented on Columbia Masterworks this month, a recording of Shakespeare's "Macbeth." Baby-faced Orson Welles directs the members of the Mercury Theatre in this unusual set. Welles and his cast achieve a truly great dramatic realism by eliminating much of the superfluous material without distorting the text. There are nine-12" records in this set (C-23) and complete with album costs \$10.00.

And now we again find ourselves out of slush—backed to the wall or sumthin—and in need of a closing line. But we're gonna fool you this time and simply say "adieu."

SOOPER-SNOOPERS

Varsity Cage Squad Nears Peak; "B" Team Given Official Sanction

Remie Stresses Fast Break In Rehearsals

Under the guiding hand of Remie Meyer, I.I.T.'s basketballers are rapidly being molded into a smoothly functioning team. Last Monday's scrimmage with Herzl Junior College exposed several weak spots in the Techawk defense as well as some fine offensive teamwork. The Techmen showed real fight, competitive spirit and teamwork in this scrimmage. These qualities have been sadly lacking in past cage teams at Armour and will no doubt be deciding factors in the success of the current cagers.

Sliwa Injured

The squad, with the exception of Captain Hank Sliwa, who has a bruised shoulder, is in excellent health. After last Monday's workout, however, the whole group huffed and puffed and gasped for breath, much to the displeasure of Coach Meyer. Due to this display of lacksadical conditioning, Coach Meyer has indicated that he intends to increase the pace in order to get his team in better condition. As a consequence, the basketballers enjoyed their heaviest workout to date as they were literally run into the floor as they pounded the boards relentlessly.

Carey Stands Out

Mike "Shots" Carey, and Jack Byrne continued their excellent offensive work as they poured it on, sinking several baskets apiece. Pendelbury and LaGodney also showed the old fight necessary for success.

Free-throws Count

Thus far, Coach Meyer has stressed free-throws, for he believes that these charity shots can decide almost 75 per cent of the games which have a close score. Meyer is determined to have this year's squad make at least 65 per cent of these free shots, even though last year's hapless quintet made less than half of their's.

Rebound Statistics

Another important factor which means much in deciding the final score is the matter of retrieving shots that go astray. Coach Meyer is drilling the Techmen thoroughly in the art of retrieving rebounds. It has been estimated the 49 per cent of the baskets made in official games come as a result of a rebound. Thus, retrieving these wild shots presents itself as an important scoring factor.

Fast Break Featured

Featuring a shifting man to man defense and a fast breaking offense, the Techmen will open their season December 5 by opposing the Chicago Teachers at the 108th Engineers Armory. December seventh, they will play Lake Forest on the Forester's home floor. Last season, the Techawks took two trimmings at the hands of the Foresters and the game promises to be a lively one, for the Techmen are out for blood this year. On December 10, Grand Rapids will invade the Armory. The Rapidiers scored two close victories last season over the hapless Hawks, but this season's five promises a different ending to that same old story.

North Central Again

Other games which show much promise in the way of excitement and thrills are the North Central and Elmhurst contests, for the above teams managed to nose out the Hawks in the final minutes in two encounters last season.

Reserves Play Herzl Today In First Tilt

A varsity reserve or "B" basketball squad has been organized at I. I. T. this year to give students who didn't make the regular team a chance to play basketball. This squad is made up entirely of Sophs and Juniors. The object of the squad is to furnish reserve material to the varsity and to have experienced men for next year to replace the graduating seniors and men who drop out of school on this year's squad. The "B" team will play Junior Colleges and "B" squads from other schools. The first game is scheduled for Tuesday, November 19 with Herzl Jr. College at Herzl.

The squad has started to take shape after three practice sessions. The starting line-up for the Herzl game will probably be Klein at center, Yasin and Platkin, forward, and McDonald and Miller, guards. Although, these men will start the game it does not mean they are the first string, for Mejta, Lakes, Ramler, Koclanes, Sauschke, and Sundstrom will be on the sidelines ready to go in the game.

The team has been practicing in the fifth floor gym on Tuesday and Thursday from 4 to 6 and will continue to do so until the Freshmen start practice. By then another practice time will have been arranged. If any Soph or Junior of I. I. T. is interested in playing they should see Bob Klein or Charles Fenster, manager of the squad.

Tacklers Strive For Initial Win

Despite two losses to Chicago the 'Boys from Armour' football team is raring to go in quest of their initial victory. They intend to play a game this Friday although the opponent has not definitely been decided upon.

In their two games thus far, the team has become more polished and precise in the handling of individual assignments, and in the functioning of the team on a whole. They have also weeded out the stars and better players from those destined to a life of bench warming.

Weak on Offense

The team's weakness is not the defense which has held up valiantly, but rather the offense which has not seemed to click on their plays. Since a team's best defense is a strong offense, it is clearly seen that the most important cog is lacking.

The line play of the "Boys from Armour" has been especially brilliant. In the Chicago game the sixty minute play of Dick Barry at center was outstanding. Another newcomer was Bill McDonough who played the whole game at left end.

Line Stands Out

The guards, Capt. Fred Lukens and Bruce Worcester played their usual good games. A new find at tackle was Bob Rubenstein, who played a sterling game along with the other tackles, Dick Metcalfe, Sid Kreiwich and Roman Mankus.

In the backfield Pete Zemaitas and George Pederson played good games. Zemaitas broke away on several good runs besides tossing a few completed passes. Pederson gained consistently on reverses around end, to gain most of the Armour ground yardage.

Bell, Star Passer

Mo Bell, who played almost all of both games at quarter back, is a consistent passing threat. A powerful plunging full back, and

So I've Heard!

By Art Hauswald

Snow, rain, cold weather, and what have you, all ganged up on the touchball tournament last week, allowing only one game to be played.

The Soph Mechs knocked the Junior Civils out of the tourney with a 6-0 victory last Thursday. It was the second straight loss for the Civils, and the third game in a row in which they failed to score a single point. However, in five games, their opponents were only able to score a total of 19 points against them, making them the best defensive team in the tourney. It was the second time in a week that the Soph Mechs had knocked off top teams in the tourney, having eliminated the Senior Chems the week before.

* * *

Congratulations are in order for the following men who were pledged to Honor I: Fred Lukens, baseball; Bill Grosse, baseball; Bob Lange, tennis; Harry Heidenreich, track; and Ralph Schmal, golf. A meeting will be held at the Delta Tau Delta House tomorrow night at 8 o'clock for all actives, alumni, and pledges.

* * *

Lewis is getting the "ouchball" urge, for yesterday they played an Armour frosh team in Ogden Field. The Lewis team is in need of players, however, any of you Lewis hardys who are interested in playing on the team report for practice tomorrow at 3 o'clock in Union Park at Ashland and Washington.

* * *

Within the next few weeks, Intramural Manager Chuck McAleer will be handling five different tournaments at the same time, besides finishing up the touchball and tennis tourneys. These winter intramural sports will include basketball, bowling, ping pong, wrestling, and boxing. Entries are now being accepted for all these sports.

* * *

This year the basketball tourney will not be run as in former years. Instead of teams being entered from the different classes, department teams are to be the entries, as in the touchball tourney.

* * *

Two freshmen remain in the finals of the tennis tournament, Dick Larson and Jim Ferguson. Both racqueteers are Calumet products and are currently applying for berths on the tennis squad.

* * *

At the recent I. T. S. A. meeting, Mr. George S. Allison, treasurer of the I. T. S. A., actually advocated the expenditure of \$50. "I move that the expenditure of \$50 for the "B" basketball team be allotted by this board," declared Mr. Allison. This remark, the first of this tenor that any board had ever heard pass from the lips of Mr. Allison caused not a few eyes to pop with bewilderment.

* * *

The Illinois Tech Rifle team continued its winning ways by winning their second match of the season, with a 923 to 848 victory over the Rennselaer Polytechnic Institute Rifle team. The men who placed on the Techawk squad in the order named are G. Borre, R. W. Smith, E. Dost, A. Dryer, and R. LaNier.

a shifty triple threat back would round out a good attack, if they could be developed.

Another much needed factor for victory, is the moral support afforded by the fans. At the first game quite a crowd turned out, but at the last game the team's supporters were few.

LEWIS SWISHERS START TOURNEY

With the choosing of the four captains of their respective teams last Thursday, four Lewis class teams prepared to initiate the intramural basketball tournament which will decide the school champions. Early predictions indicate the freshmen team as favorites, but the other three are reputed to be withholding their punches.

Chosen to lead the strong frosh five was Joe O'Leary, Nate Igltzen will captain the Lewis Sophs, while Sol Fishman will head the Juniors, and Leon Rottman the Seniors.

The first game will be played Tuesday, November 26, at 3:00 will feature the juniors facing the seniors, to be followed the next Tuesday by a freshman-sophomore tilt. Team line-ups are yet tentative; new material will be welcome.

Matmen Prepare For First Match

About 20 wrestlers, from which eight men will be chosen to make up the first team, are preparing at the present time for a practice bout to be held at the division Y. M. C. A. at eight o'clock Tuesday, November 26. The probable men who will participate in this bout are Cule, Daly, Dunlop, Eullitt, Till, DeBoo, Marhoch, Steinberg, Johnke, Fowler, Captain Negrilli, De Pinte, Butkus, Roberts, Zemaitis, Golden, Horwitz, Willman, Rosenberg, Sanowskis, and Peterson.

Schedule Incomplete

Several meets have already been set and some have been tentatively scheduled. The meets set for certain are with Wheaton, there; Beloit, here; Augustana, here; and a home and home match with Herzl. Those tentatively set are home and home matches with De Kalb, North Central, Morton Junior College, Chicago Teachers College, and Bradley Polytech of Peoria.

"Mac" Announces Winter Program

As the football tournament draws to a close in a flurry of snowshoes and snow-covered pigskins, news comes of impending basketball, bowling, and ping pong tournaments.

In all three cases the systems of entering and competing are to be different than previous similar tournaments.

Entries for the ping pong meet are already in and pairings are being made up. A list of the pairings will be posted on the Union bulletin board. Scores are to be turned in to the cloakroom.

The basketball tournament is to be run on a basis similar to that of the touchball tourney; that is, there will be a possibility of one team per department for each year. The number of freshmen teams will be unlimited. As in other sports, however, letter and numeral award winners will be ineligible. It is hoped that entries will be submitted in time to start this tourney shortly after Thanksgiving. The deadline has been set at Wednesday, November 27.

The ball begins to roll—the pins begin to fly—bowlers! Get three lines worth of bowling in to the cloakroom by November 27. The type and pairings of the bowling tournament will be determined from these scores. Scores must be in by this date.

Soph Mechs Whip Junior Civils 6-0 In Zero Weather

Although handicapped by extremely cold weather, the Sophomore Mechanicals managed to score one touchdown in their game with the Junior Civils on Thursday, November 14 and thus eliminated the latter team from the tournament. The defeat for the Civils was very similar to the one suffered at the hands of the Seniors Mechs, except that the Seniors had a far more aggressive and faster team.

Evidence of the effect of the cold weather upon the competing teams was displayed by the great number of passes dropped by frozen receivers. The Mechs relied for the most part, upon short

INTRAMURAL TOUCHBALL

For Week of Nov. 19

Monday:

9-10 Sr. Civils vs. Co-op No. 1
1-2 Sr. Mechs vs. Jr. Mechs

Tuesday:

2-3, Sr. Juicers vs. Soph Mechs

Wednesday:

9-10, Sr. Civils vs. Sr. Mechs

passes, which proved to be very effective. Only one long pass from mid-field was completed during the course of play. This was a beauty from Zemaitis to Byrne, who caught the ball just over the goal line to tally the only six points of the game.

Although the Civils were within three yards of the Mech's goal, at least four times, a really tense moment occurred when Butkus, catching a short pass from Sundstrom on the 20 yard line, ran to the Mech's four yard stripe, before being tagged. At this point with one down and goal to go, they lost the ball and their last chance to tie when the next pass was incomplete.

BOXING TEAM WORKS DAILY

Our boxing team is working out regularly, and according to Coach Sonny Weissman, they are getting in shape very rapidly.

There is no definite schedule as yet, but the manager has a tentative work-out bout with Loyola, and tentative home and home bouts with Valparaiso and DePaul.

Eight men to make up the first team will be chosen before any bouts are run off, and they will be chosen, one in each weight class from these men: Ellis, Young, Colant, De Giorgi, Erickson, Emerich, Hanneman, Simpson, Locatorti, Watson, Lukes, Krause, Niems, Obergefell, and Swan.

The team is already looking forward to the Golden Gloves tournament which will be held during the third week in January. Anyone is eligible to enter, and Sonny hopes to have a very good team for that event.

Intramural Tournaments Begin On Monday

Illinois Tech's Intramural boxing and wrestling tournaments will be held in the gym starting Monday, November 25. Both tournaments are open to anyone except former winners and lettermen. Those interested in either sport should hand their names in to Chuck McAleer, Sonny Weissman, Boxing Manager Don Knief or Wrestling Manager Dick Grinnal this week.

Sonny is expecting the biggest tournament in history this year, so if you are an "amateur", don't let the fact that some of the members of the wrestling squad will be out discourage you.

Heald Attends Defense Meet In Washington

President Heald recently returned from Washington where he attended a meeting for the organization of defense training programs in the engineering colleges of the United States. The government has appropriated \$9,000,000 for this purpose.

Mr. A. A. Potter of Purdue is the national chairman of the advisory committee for the training program; President Heald is the regional advisor for the Illinois, Wisconsin and the Indiana industrial area. The universities which will carry the special courses in this region are the University of Wisconsin, Marquette University, Northwestern University, University of Illinois, Bradley Institute, and I.I.T. Professor Finnegan is in charge of the course at I.I.T.

Soldiers of Industry

These courses will be free of charge to men already in industry who desire specialized training to enable them to fill better positions for the defense program. Each college will make a survey of the industrial plants in its area and base the training on particular needs. The first group of courses will begin about December 1, after they have been approved in Washington.

Schommer Gives Placement Talk Before A.I.Ch.E.

"Placing of Chemical Engineers" was the talk given by Prof. Schommer during the regular meeting of the A.I.Ch.E., Friday, November 15. He suggests that everybody should have a well rounded education, which includes the social sciences.

The employers want men who are about six feet tall with a good American background. Because some of the employees may be prejudiced against certain nationalities, employers want men with American sounding names. Employers pay particular attention to the entrance, the manners, and also the neatness of the men they are considering. These things may not seem very important but they are often the deciding factors in obtaining a job.

Asked For "A" Men

The employers want to know if the men are co-operative, hard workers, and if they have initiative, etc. Often it is hard to tell if a person has these qualities. This is second in importance.

Most of the companies want men which are in the upper one-half of the graduating class. In all of the companies Prof. Schommer has dealt with, only one asked for men with straight A's. This was a company making gambling machines. Of course, the men with the best record having the other qualities will get placed first.

Activities Important

Only a very few employers will interview men with few or no extra curricular activities. All employers want to know what the activities were, and if they were officers of any clubs and if so, what office they held. They also prefer men who have worked and paid for part of their schooling.

Prof. Schommer suggests that a person obtain a job after he graduates and also take post graduate work for a higher degree. Suggested also was that a person who does routine work for a long period should come to him and try to get a better job.

ton.

President Heald called a meeting of the leaders of the six mid-western schools in his region last week to discuss plans for the special training program in this area. The purpose of this meeting was to establish methods and machinery to gauge the need for technically trained men in this region and to determine the special courses necessary.

College and University representatives present at the meeting were Dean O. V. Eshbach, Northwestern; Dean M. L. Enger and Associate Dean H. H. Jordan, University of Illinois; Dean F. A. Kartak, Marquette University; Dean F. E. Johnson, the University of Wisconsin; President J. R. Hamilton, Bradley Polytechnic Institute; Dean L. E. Grinter and Professor J. B. Finnegan, I.I.T.

Nine Million Dollars

At the meeting Mr. Heald stated, "This program, for which nine million dollars has been authorized by Congress, will be strictly upon a college level and is designed only for those men who have college training in the engineering field. The program will obviously be one of 'up grading' of technical men, fitting them for better and more important jobs in the defense industries and thus making it possible to us inexperienced men at the bottom of the structure."

The first courses to be established will be designed to forestall potential shortages of inspectors of materials, chemicals, explosives, instruments, and designers of machinery. As the program develops, arrangements will be made to facilitate the placement of students in defense positions upon the completion of their training. This will be done by direct contact between engineering schools and industry, state and federal employment offices, and the U.S. Civil Service Commission.

Reissner To Speak On Lubrication For Mechanics Meeting

Next Monday, November 25, Dr. Hans Reissner will be the speaker at the third meeting of the mechanics colloquium. The topic of his talk is *A New Solution of the Fundamental Lubrication Problem*.

The mechanics colloquium meets every other Monday at 4 P.M. in room 220 Chapin. Professor Reissner is chairman and Mr. Zwissler, graduate civil engineering student, is the assistant chairman. These discussions are open to everyone who cares to attend, and anyone who is interested is invited to attend.

In the past the mechanics colloquium has had a talk by Dr. Myklestad of the Westinghouse Company, and one talk by Dr. Donnell.

The third speaker is Professor Reissner. The fundamental problem of lubrication has first been clearly stated by Osborne Reynolds as the problem of viscous flow in a very narrow gap-like "channel" narrowing in the direction of flow. The flow of the lubricant is caused by the motion of one wall of this "gap."

From this knowledge a new development in the design of bearings has resulted. The theory of such a flow has been treated only by an approximate method, by relating it to the flow between parallel walls, and satisfying the boundary conditions only roughly at the open ends.

The lecture will show how the problem can be solved rigorously by a simple integration of a biharmonic equation. Some light will be thrown on the conditions at the open ends of the flow and also on the conditions in a partly filled journal bearing.

Clarke Visits Convention At Drake

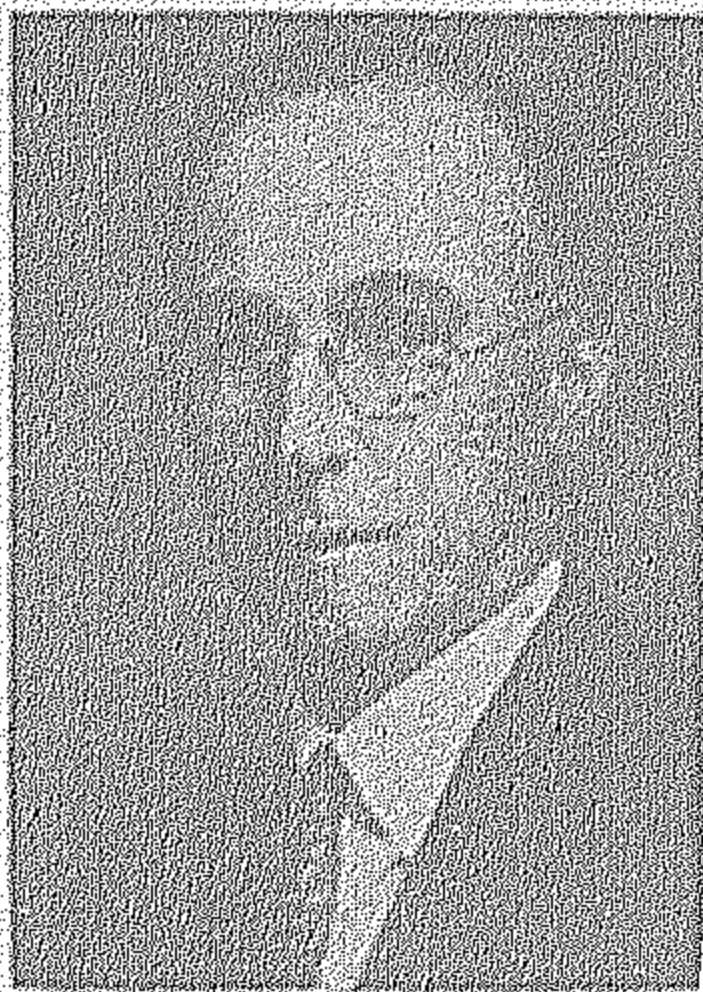
Miss Laura Winkelman and Dr. Clarence L. Clarke represented Lewis at the fifty fourth annual convention of the Association of Land-Grant Colleges and Universities held at the Drake Hotel on November 11-13. Among the outstanding features of the convention were discussions led by Dr. Louise Stanley, Chief of the Bureau of Home Economics, Dean A. J. Brumbaugh of the University of Chicago, and Dean G. Fisher of Iowa. Talks by some of the speakers who tried to repro-

Practice Applied In New Tech Lab

(Continued from page three)

duced by all of the equipment, is the possession of complete safety devices. Examples of these are the automatic controls on the compressors. As mentioned previously, a great deal of heat energy is liberated in compressing

As the visitor turns to leave the lab, he might suddenly be hit by a blast of air resembling a "twister" in intensity. Once again, however, there would be no cause for alarm, as this gentle tornado is produced daily by means of a cen-



J. C. Peebles

trifugal blower. This is the last rabbit in Professor Peebles' bag of tricks. The students perform various tests upon this long, horizontal "stove-pipe" to determine the capacity and efficiency of this type of blower.

Casting For New Drama At Lewis, Begin Rehearsal

Two On An Island, with its cast of thirty four, is progressing rapidly under the able direction of Mrs. Olive Pierce Hazel. Any Tuesday or Thursday afternoon finds the cast, headed by Mickey Walker in the role of *Mary*, and Jack Perkins in the role of *John*, hard at work. The other leading roles are in the capable hands of Steve Mendak, who portrays *Ormont*, the fast talking producer; Charles Reinhardt, the artist *Ross*; Alda Kairis in the role of *Dorothy Clark*; and Helen Marzullo as *Mrs. Ormont*. The minor roles have also been assigned, and everyone is being drilled in his part.

Unusual Settings

Because of the unusual settings and frequent scene changes, the play is an extremely difficult one to produce. Consequently, a great deal of ingenuity on the part of Mrs. Hazel, Miss Blanke, the art director, and the carpenters will have to be employed. A committee of three has already been appointed to assist Miss Blanke with the scenery; Helen Marzullo, chairman; with Mickey Walker and Mary Flasher as her co-workers.

duce the addresses they had given at a similar convention held at the University of California twenty-five years ago were especially unusual and interesting. These speeches afforded a splendid opportunity to make note of and contrast the problems which confronted the organization a quarter of a century ago with those of the present time.

Visit Packing Plant

The classes in Foods 101 and Experimental Cookery have recently made an extensive study of the methods of preparing meats in order to determine which of the methods will insure the most nutritious and palatable product. On Tuesday, November 19, the two classes will take a trip to the Armour Meat Packing Plant and will be guests of the staff in charge of Armour's Experimental Cookery Department. Here they will be able to get some of the latest information with regard to the new products this company is placing on the market and will observe a special meat cutting demonstration.

Stitching, sewing, and stuffing are the order of the day in the Home Economics department. Preparations for the doll parade are now being made. Sometime before Christmas stuffed dolls made by the Home Economics Club will be distributed to orphans and needy children, but in the meantime they are on display in the home economics office. Jeannette MacLuckie and Eileen Robinson will arrange to take the dolls to the Chicago Home for Half-Orphans.

PETITION METHOD USED IN ELECTION OF FROSH HEADS

On Friday morning, Nov. 15, in the assembly hall of the Student Union Building, an important class meeting was held. The purpose of the meeting was to decide on the method of nominating and electing the freshmen class officers. The assembly voted for the petition method, whereby anyone obtaining a petition of twenty-five names (of freshmen) may run for office in the primary election. The two men for each office receiving the highest number of votes in this election may run in the final election. Class president, vice-president, secretary, social chairman, and three Student Union representatives constitute the officers.

Five o'clock on Monday, Nov. 25, following Thanksgiving is the deadline for petitions, which are to be turned in at the Registrar's Office or to one of the temporary freshmen class officers. Although the dates are not, as yet, definite for the elections, the primary election will probably be held Wednesday, Nov. 27 and the final election, Friday, Nov. 29. Officiating at the meeting was Dick Larson, prominent senior, and president of the Inter-fraternity council.

A.I.E.E.—

(continued from page one)

impedance to high frequency waves,

At the next meeting of the Illinois Institute of Technology's A.I.E.E. on December 6th, Mr. W. S. Eldredge, assistant chief testing engineer for the Commonwealth Edison Company will be the speaker. "Experience with Safety in Engineering" will be the theme of the executive's talk, which is being given in conjunction with the national drive for safety of the A.I.E.E.

After the speech, Mr. Eldredge will interview all the school's engineering personnel for graduate work and employment.

Dance Club To Dole Dates For Worried Wolves

Something new is the "co-ed catalog" being compiled by the Dance Club. Any girl who wants one of those, tall, dark, too, too terrific I.I.T. men to take her to one of the club's socials need only submit her name, address, telephone number, weight, height, and age. Also should be included one of the applicant's most glamorous photographs. This precious information will be guarded from Gestapo agents and loose Armour wolves.

Tomorrow's meeting of the swing and sway squads will be held in the Student Union auditorium, at which time the price of admission for the coming social, open, incidentally to all I. I. T. students, will be fixed. After the business of the meeting, instruction will begin.

Ballots were cast at the last meeting of the social steppers to decide the group's officers for the Armour branch. Ernest Colant was elected president; C. J. Lombard was the winner in the race for the duties of the secretary and the keeper of the coin. The newly appointed organization committee consists of M. Pleva, G. C. Mustakas, and R. B. LaNier. Lewis dancers will decide who is to be the vice-president, and who will fill the three vacant positions on the organization committee.

Thermo Lecture Given At Heat Power Seminar

"Joule-Thompson Data and its use in the Calculation of the Thermodynamic Properties of Gases," was the topic of a discussion by Dr. K. A. Budenholzer at the first meeting of the heat-power seminar on the afternoon of November 11. The discussion covered the results of some rather extensive investigations on the Joule-Thompson coefficients of two binary hydrocarbon mixtures in the gaseous region. This work was carried out during the past two years at the California Institute of Technology by Dr. Budenholzer and co-workers.

Difficult to Obtain

Accurate data on specific volume of a gaseous mixture as a function of the pressure and temperature, is very difficult to obtain when using the ordinary pressure-temperature-volume apparatus of the variable volume type. For this reason, it was pointed out, that it is desirable to have at hand some means of checking the volumetric data obtained by direct measurement in a manner as nearly independent as possible. The Joule-Thompson coefficient may be made to serve this purpose admirably, because in conjunction with a limited amount of specific heat and volumetric data it affords a means of calculating the change in specific volume of a gas under isobaric conditions. This fact, coupled with the added advantage that it is most easily measured experimentally in regions of moderately low pressure, makes it a useful derivative for the calculation of the thermodynamic properties of gases.

The results of such calculations applied to the Nethane-Ethane, and Methane-N-Butane systems were illustrated as examples. The apparatus used in the determination of the Joule-Thompson coefficients for the binary hydrocarbon gases was also described.

H. T. Johnson Talks At FPES Meeting On Inspector's Job

"The Experiences of an Engineer with the Illinois Inspection Bureau" was the topic presented at the last meeting of the Fire Protection Engineering Society. The speaker, Mr. H. T. Johnson, an Armour graduate, is now working with the Illinois Inspection Bureau where he specializes in sprinkler-system and gravity-tank inspections.

Mr. Johnson's talk was spiced with his own interesting experiences and those of his acquaintances. Especially interesting were his comments on the grading of towns. He stressed the fact that an inspector should be thorough and practical when making his inspection and, at the same time, mindful of the inconvenience he is causing those whose property he is inspecting. Mr. Johnson said that an inspector's job is to sell the idea of the need of increased safety factors in such a way that the suggestions will be gratefully accepted by those to whom he is making the suggestions.

Relays—

(Continued from page one)

Since this is the first year that it will be operated by the Illinois Institute of Technology, plans that go to make it successful should be enlarged.

Members also passed on a ruling to extend financial help to the Dance Club. Since this organization is very active on the I. I. T. campus, the membership fees and costs are kept to a bare minimum.

Because it serves a large number of students, the ruling was passed unanimously. Among the other items considered at the meeting was the cost of construction of a new baseball backstop for Ogden field, the old one having been blown down by the famous wind of Armistice Day, 1940.

Musical Groups Prepare Opening Of Big Season

Enthusiasm plus hard work are two factors in Mr. O. Gordon Erikson's formula for producing outstanding musical groups at I.I.T. this season. Members of the glee clubs and orchestra have been toiling every week for more than a month in the auditorium of the Student Union. Attendance at these rehearsals shows that the students are really interested in the musical organizations.

The glee clubs are in their last few rehearsals before their first public performance on December 11 in the rotunda of the Art Institute at 12 noon. In the morning of the same day Lewis students will hear their Christmas concert. The girls glee club and the orchestra will perform at this concert. These performances will be followed by a Christmas concert on the Armour Campus on December 19. At this performance 78 male singers and 40 instrumentalists will combine to form a program surpassing that of last year.

There are at present many very talented students at I.I.T. who have not joined any of the musical groups. Mr. Erikson suggests that it is not too late to join. He will welcome any new members.

Electrical Dept. Announces New G.E. Purchases

Greater enrollment in the past years has necessitated an expansion program in student laboratory facilities. Professor Freeman, head of the electrical department, has announced the receiving of a large shipment of new instruments from the General Electric Company. The purchase includes ammeters, voltmeters, and Wheatstone bridges, which will be available for student experimentation. A valuable donation was received recently from the Otis Elevator Company. The gift was a dynamometer, which may be used as a balancer in a three wire D.C. distributing system.

New Arrangements

Another phase of the expansion program will be a general reorganization and rehabilitation of the dynamo laboratory. Equipment will be overhauled, new arrangements will be made, and new equipment will be added from time to time. New terminal blocks have been put on several of the generators already.

A.S.M.E. Meet, See "The Kilowatt Trail"

Highlighting the A.S.M.E. meeting last Friday, held in science Hall, was "The Kilowatt Trail," a motion picture presented by the Westinghouse Co. Preceding the movies were short talks given by John Sauvage, president, and Dick Nolte, membership chairman.

"The Kilowatt Trail" depicted the manufacturing of insulators,

turbines, switches, and meters designed for all purposes.

A group of about 130 students and instructors viewed the scenes showing the manufacture of these articles. Especially impressive were the scenes showing huge turbines being machined and the small parts of the meters being assembled.

John Sauvage announced the movie and introduced Dick Nolte, who spoke of the memberships turned in. Already registered are 138 members and more are forthcoming seniors interested in joining should see Dick Nolte and juniors or sophomores see Hansen or Janke for information concerning membership requirements.

POLISH GROUP TO MEET WEDNESDAY FOR FIRST SOCIAL

On Wednesday, November 27, at 8:00 p.m. the Lewis Institute Polish Club will hold its annual social to which all members and prospective members are cordially invited. The event will take place in a special hall obtained for the purpose at 1101 North Damen Ave. Free refreshments will be served and there will be no admission charge. Music will also be furnished for dancing.

At the last meeting, which was held in the Laird Community House, Division and Wolcott Streets, a large number of Armour students were present. Plans were discussed for the reorganization of the club under the title "Illinois Institute of Technology Polish Club."

Subsequent meetings will alternate between the Armour and Lewis campuses.

Longtin Delivers Stability Theme

One of the principal speakers at the meeting of the American Chemical Society held Friday, November 15, in the Stevens Hotel, was Dr. Bruce Longtin, instructor of Physical Chemistry at Illinois Institute of Technology. Dr. Longtin spoke on "Rates and the Second Law from the Principle of Stability."

Stability Discussed

The main object of Dr. Longtin's talk was to point out the fact that both equilibrium problems and rate problems may be considered from the standpoint of stability. Chemical thermodynamics also may be used to determine equilibrium conditions as one of maximum stability. Rate problems also show stability. As an example, Dr. Longtin cited the fact that when the rate of an electric current is greater than the stable value, resistance tends to slow the current down.

Among the officers of the Chicago chapter of the American Chemical Society are many alumni and faculty members of Illinois Institute of Technology. Dr. B. B. Freud, chairman of the department of chemistry is a member of the board of directors and a counsellor. Dr. Murray is also a counsellor. Treasurer of the Chicago chapter is Dr. R. H. Manley of the research foundation. Mr. G. L. Parkhurst, a graduate of Armour Institute of Technology, is editor and counsellor, while Mr. J. J. Doherty, Jr., is secretary. Dr. G. Egloff, who received an honorary degree from Illinois Institute of Technology last June, is one of the Willard Gibbs jurors of the Chicago chapter.

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