TECHNOLOGY NEWS

Volume 33, No. 8 Z-143 ILLINOIS INSTITUTE OF TECHNOLOGY January 10, 1944

as I see IT

by MILTON BURKART

DESPITE THE BELATED USE of the theme, this column will begin the new year in the appropriate manner. I do not care to present the numerous idealistic goals toward which everyone has probably been told to strive. I would like to mention my own instead.

For the year of 1944 I resolved to be a good Christian; not a better Christian, but a good Christian. I also prayed that everyone would make a similar resolution. It is always a timely one in any part of any year. That simple phrase can accomplish more than a long list of self made promises even if adhered to only in part.

ALTHOUGH EVERY graduating class since Dean J. C. Peebles has occupied his present office has filled out senior questionnaires, the results of none of these have been seen by him. These forms, which ask the students' opinions on the ability of individual faculty members, the manner in which courses are conducted and how they could be improved, and such other material, can be of great use to the school. The suggestions made by the October class (as seen from only partly completed returns) might have changed some conditions about the campus which are now present. The results, however, were never presented to the Dean.

One person is still compiling the data from the 1942 February class. As far as can be seen, the class graduating next month has done virtually nothing in this regard.

IIT must therefore look to the June class for hearing what students have to say. If anything is to be done, it must be begun now. Unless

(See AS I SEE IT) on page 7)

10 Men Pledged To Tau Beta Pi

Ten IIT students, outstanding in their achievements as undergradnates, were pledged to Tau Beta Pi, national honorary engineering fraternity, Friday morning in the assembly hall.

Of those pledged six were seniors and four were juniors.

The seniors pledged were George W. Erkert, Victor Graziano, Earl R. Mills, Arnold J. Thompson A/S, George Thyer, and Jesse Lowan Shearer. The four junior pledges are Claus von Fredersdorff, Ronald Lind, Alfred Roberts A/S, John L. Schwemberger. Last semester there were no junior pledges.

Half of those pledged were chemical engineers, while three were mechanicals and two were electricals.

"Tau Beta Pi honors scholarship, integrity, breadth of interest, character, and the degree of unselfish activity manifested in relations with fellow students", said Bill Parks A/S, president of the fraternity.

Biographies of the pledges follows:

George W. Erkert, a senior chemical engineering major, is a member of the track team, president of Al-

See TEN MEN on Page 8)

Tech Time Table

Monday, Jan. 10
- 5:30 p.m.—Co-op Bookstore—Stockholders Meeting—Auditorium

Wednesday, Jan. 12
- 12:30-3:30 p.m. — Graduation Announcement Orders taken —Student Union Lobby
- 4:00 p.m.—Sigma Xi—202M
- 5:30 p.m.—Armour Eye Initiation—Armour Eye Clubrooms

Friday, Jan. 14
- 11:30 a.m.—Senior Class Meeting—305M
- 12 Noon — Home Economics Club—501 Lewis

Saturday, Jan. 15
- 8:30 p.m.—Snowball Dance—Lewis Gymnasium

Concert to be Held on Jan. 18

120 IIT Men to Appear In Goodman Program

The Goodman concert, annual highlight of musical activities here, will be presented this year by the largest musical organizations in IIT history.

The program will be presented at 8:30 p.m., at the Goodman Theater, on Tuesday, January 18. One hundred and twenty IIT, civilian, army, and navy men will participate.

Specialty numbers will include Russian songs by the glee club and two South American numbers by the band. A novel feature will be selections on a vibra-harp to be played in the lobby by William Weathersby as the spectators take their places.

O. Gordon Erickson, musical director, believes that the Goodman Theatre, accoustically speaking, is one of the finest in the country. The modern lighting system will be used to enhance the moods of the various musical pieces.

The naval office here is planning to change the day for navy liberty from Wednesday to Tuesday during the week of the concert so that Navy students will be able to attend.

The cost of admission is 55c for all seats. Tickets may be obtained from any member of the musical organizations.

This concert is the only appearance of the music clubs in the Loop this year.

Freshmen to Hold First Dance of '44

First freshman social of the new year will be held on January 22, at 8 p.m. in the Student Union Lounge, announced Class President Allen Dimoff. Entitled the "Catches and Matches of '44", the dance will be under the direction of Dimoff and Ted Melin, freshman class social chairman.

Bids will not be sold directly, but will be given out at the door in exchange for receipts to be issued upon payment of the admission price, which has not yet been announced.

ITSA Affair to Feature Brown

Warren Brown, sports editor of the Chicago Sun, will be one of the featured speakers at the ITSA Athletic Honor Banquet, January 19.

John J. Schommer, IIT athletic director, arranged for Brown to attend the banquet. Schommer also plans to obtain other speakers of similar note for the occasion, according to Ronald Lind, ITSA first vice-president.

Lind states that the event will be a father-and-son banquet, as has been the practice in the past.

Invitations will be sent out this week. Enclosed will be a card on which students are requested to state whether or not their fathers will attend. A special table will be placed in the Student Union lobby where the cards should be returned, Lind states.

If fathers attend they must pay for the cost of their meals, $2.80. Approximately 150 to 175 people, in addition to the fathers, are expected to be present.

Nine Men Initiated By Pi Delta Epsilon

Formal initiation of nine men into Pi Delta Epsilon, national honorary journalism fraternity, was held yesterday.

Those selected for membership all are or have been active on *Technology News*. They are Reynold Berggren, photo editor; Wilbur Burkhart, feature editor; Ronald Lind, cartoonist; Herman Nelson, assignment editor; James Oldshue, sports editor; and Isabelle Winter, Lewis managing editor.

James Waber, a past editor of *Technology News*, was initiated as an alumni member. He is now studying for his doctors degree here and was a member of Sphinx, the former campus honorary journalism fraternity.

The ceremonies were held at a banquet in the Swedish Club of Chicago.

Senior Farewell to Be Cabaret Type Dance at Terrace Casino February 11

The Senior Farewell will take place Friday, February 11, at the Terrace Casino of the Morrison Hotel, scene of the first Integral Dance.

The affair will be a cabaret dance, of the type which has been presented to, and met the approval of, Techmen in the past.

Will Back and his orchestra, who have played for other successful IIT functions, are expected to play for the affair, said ASSC Chairman Mike Coccia A/S.

In addition, Coccia promised a good floor show and said he is endeavoring to put on the most enjoyable event of all the dances of which he has been in charge.

Bids will go on sale in the near future. Sale will be limited to graduates for a definite period, after which June graduates will be permitted to purchase them. No others will be invited.

Those wishing to obtain bids were urged by Coccia to buy early, in order to make sure of getting them. No bids will be sold at the door.

June Grads Elect Puchalski President

Ed Puchalski was elected president of the June graduates, Wednesday, December 22.

In a voting period which lasted from December 22, 1943 to January 4th, 1944, the June graduates also elected Marc Heidmann, vice-president; Harlan Anderson, secretary; Dick Keyes, treasurer; and Tom Artingstal, social chairman.

Three times the graduates voted for a secretary, with Andersen finally winning over Al Purzycki in the third ballot.

Keyes and Heidmann triumphed in the second count, while Puchalski and Artingstal were elected without run-offs.

Appointments for the various committees have been made by the new officers. These are Gordon Fleischer, jewelry; Sid Baker, curriculum; Richard Hood, cap and gown; Ed Neidel, announcements; and Bob La Civita, commencement.

Purdue's President E. C. Elliot To Be Graduation Speaker

Year's Largest Commencement to Be Held Feb. 21; About 285 Degrees to Be Given

IIT's largest graduation of this year will be held February 21, with a ceremony commemorating its 50 years of service. The speaker for the occasion will be E. C. Elliot, president of Purdue University, who notified President Henry T. Heald of his acceptance Friday.

Approximately 285 degrees will be conferred by the Institute, as well as a number of honorary degrees. The baccalaureate sermon will be given by Dr. Harold Roupp at the Central Church on Sunday, Feb. 20.

The majority of the graduating students will be from the south campus with 225 men. The west campus representation will consist of 20 students. Advanced degrees will be awarded to approximately 10 people. The number of honorary degrees to be given has not yet been made public by the executive committee of the board of trustees.

The graduation ceremony will take place in Orchestra Hall and will be carried out by the Honor Marshals under the direction of C. A. Nash, professor of electrical engineering.

The marshalls will be chosen by Dean J. C. Peebles after February 1. Complete plans for the graduation will have been made by that time. As yet the manner in which the school's fiftieth anniversary is to be observed has not been decided.

Valentines Due For Delivery This Week

If you see a downcast soul slowly walking out of the registrar's office this week, you'll know he received a "valentine." Grades for all students were sent to Dean James C. Peebles last week and failing notices will be ready sometime this week.

The navy grades, which are compiled three times each semester, will be used to determine approximately how many replacements will be needed next semester. Contrary to the beliefs of some, those who are failing in two or more subjects now will not be sent to Great Lakes, said Peebles.

Total Modernization of Dynamo Laboratory is Now Underway

Total modernization of the electrical dynamo laboratory is now under way. Following an anonymous gift of $20,000 to the electrical department, the development of previously made plans for a completely equipped and totally overhauled laboratory was started.

The additional equipment that is to be added will bring the inventory of equipment of the electrical department up to a value of $275,000. With very few exceptions, all of this equipment is practically new, said Jesse E. Hobson, chairman of the department.

The laboratory is now being completely rewired and a new switchboard will be used for control.

Eighteen test benches, now being built by the Standard Electric Time Company, will soon be installed. The benches are designed to give the utmost of safety from the various types of outlets that will be located on them.

Two General Electric motor generators and a number of Westinghouse load units have also been obtained. Added to this are two new control panels for AC and DC, and three small motor generator sets.

Flourescent lighting, suggested by the illumination classes which made a study of the lighting conditions of the room, will give a level of illumination five times the present level, said Hobson. A new hardwood floor and an acoustic ceiling to lower the noise level are to be installed.

E. H. Schultz, head of the electrical laboratories, designed the lab. When completed, it will have a capacity of 75 persons, he said.

Dr. Hobson has stated that the greater part of the modernization will be done between semesters and that it will be finished completely in about four months.

Minkler Leaves for Navy

Harold Minkler, instructor of technical drawing on the west campus, has resigned his position to enter the armed forces.

Minkler, who is also director of visual education at IIT, has been awarded an ensign's commission in the navy. He will report for active duty on January 28.

"Snow Ball" to Be Given Saturday in West Campus Gym

Snowballs, ice, and pine cones will fill the atmosphere at the "Snow Ball" dance, to be held Saturday night in the Lewis gym at 8:30 p.m.

The Illinois Tech Navy band, led by Fred Godfrey, will provide the music. This is the first large social event held on the west campus. It is also the first appearance of the Navy band at Lewis. The entire gym floor will be utilized for dancing, while the balcony will be used for consumption of soft drinks which will be on sale at the dance.

The dance is sponsored by the ASSC. It was originally planned by the west campus sophomore class, but since it is an all-school function, management was assumed by the ASSC.

Ferguson Replaces Lippert, to Manage All IIT Cafeterias

All Institute cafeterias are now under the charge of Miss Elizabeth G. Ferguson.

Previously in charge of the ASTP's cafeteria at the armory, she replaces Miss Vivian C. Lippert, who resigned Jan. 1.

Engaged for several years in restaurant work, Miss Ferguson was recently employed in the cafeteria of the Foote Brothers Gear Company.

Miss Lippert is on a two week vacation, and on her return will be a dietician in a Chicago hospital.

The management of army, navy, and civilian meals will be centralized under Miss Ferguson, said Institute Business Manager Raymond J. Spaerth.

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Rho Epsilon or a Lounge

In conjunction with its efforts to provide everything it can for the welfare of the staff and student body, the administration is contemplating the construction of a lounge for the secretaries on the IIT campus. The proposed site for this lounge is the rooms presently occupied by Rho Epsilon, the honorary radio fraternity.

Because of the none too pleasant surroundings of IIT and the lure of higher paying jobs, such a project would be advantageous to both the secretaries and the Institute. Some place should be provided where these girls can relax and get together. Nevertheless, the question is asked whether it would be of greater advantage to the school to make a recreation center of the proposed site or to find a better one.

If the lounge was placed in Rho Epsilon's rooms, the fraternity would be forced to find new quarters. The Lewis campus has been suggested as a possible place for Rho Epsilon. Such a move would incurr the cost of moving the present equipment, redecorating their present rooms and their proposed rooms. Would it not be cheaper to find some other place for the lounge? As one suggestion I would like to propose the basement of Chapin Hall. This could be accomplished without inconveniencing Rho Epsilon or the secretaries, who would have to climb four flights of stairs every time they wanted to relax. The mimeographing room is an example of what could be done in the basement of Chapin Hall.

Let us also see how this proposed change would affect Rho Epsilon. The greatest majority of all students interested in radio are located on the south campus. All of their free time while in school is also spent here. If the members were forced to travel from one campus to the other the activities of the fraternity would undeniably be curtailed. In looking over the record of the fraternity I don't see how the school could afford such a move.

They are now one of the most active groups on the campus. Recently they have completed the construction of an F-M transmitter and at present they are giving public televesion demonstrations. They have initiated, and are now conducting, a code class.

With the construction of the F-M transmitter they have earned the lasting debt of the school. They have provided a means whereby people throughout the Chicago area can become acquainted with the Institute. They have also loaned to the school laboratories the use of the transmitter and an amplitude modulation transmitter. It is readily admitted that the school faces a hard problem due to the lack af available space, but is it justifiable to limit the activities of so active and beneficial a group as Pho Epsilon? Can no other solution be found?

—M. BURKART

Man Of The Week—

Senior Civil Sheldon Young Looks Forward to Marriage and Then Graduation

By ALLAN GRANT

Graduation and marriage are highlights of the year for Sheldon Young, senior civil, this week's "Man of the Week."

"Shellie" claims that is is rather difficult to say which is the more important, his marriage January 22 or his graduation February 21.

His record at IIT has been very impressive since the time he came here from Hirsch High School in 1940, where he was active in sports and in the choral club.

He is now president of Chi Epsilon, honorary civil fraternity; treasurer of the WSE, and he holds memberships in Tau Beta Pi, national engineering honorary, the Interhonorary Council, the Glee Club, and the Senior Curriculum Committee.

Sheldon E. Young

Not stopping with all this he assumed the task of advertising manager for the Integral and raised more money through advertisements than had ever been raised in previous years.

That's not all; besides participating in intra mural sports he has served as a student assistant in the mechanics department and is now making illustrations for a text to be published by one of IIT's professors.

As for his future plans, "Shellie" expects to remain at IIT on a fellowship and do research work in the mechanics department. He now holds a Cook scholarship.

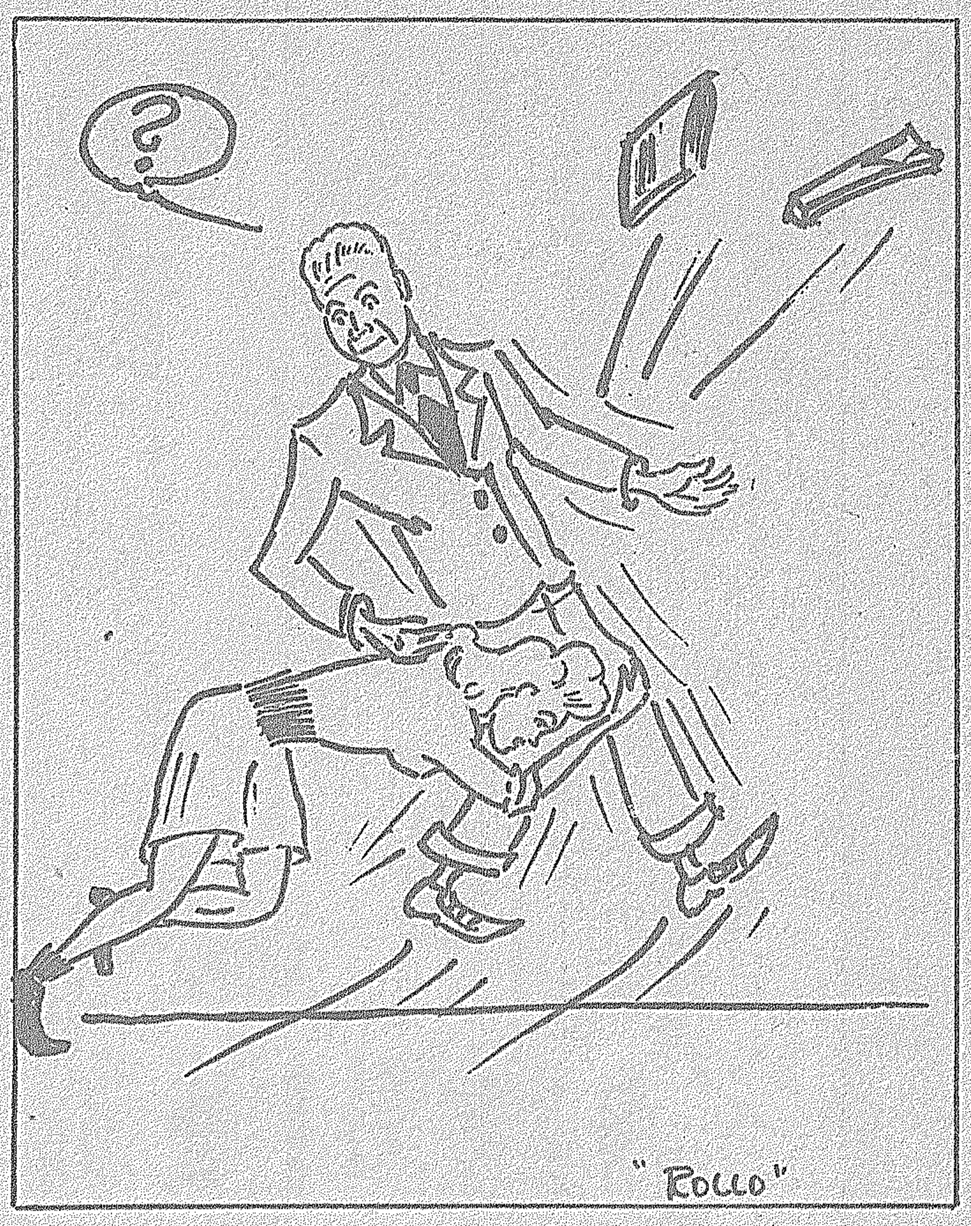
"Shellie" leaves this advice to the underclassmen, "Whenever you enter a course, set your mind to get the most you can out of it." He has followed this idea closely as is shown by his 2.3 average and his rank of about third in the civil graduates. That is how he won a 25 dollar prize in a contest when he entered a paper entitled, "Advantages of Arc Welded over Riveted Design."

Overrunning the excitement of graduation is the matter of his marriage next week to Ada Soderlund, to whom he has been engaged for the last two years. He met her when he was a lifeguard at a summer resort.

He said jokingly, "Two years ago I was a full fledged BTO, but now I carry the title of dampened BTO."

"Shellie" stated that all senior civils have been invited to the wedding.

It's Leap Year, Fellows



From Our Readers

Dear Editor:

In your recent column "as I see IT," there was a reference made to a group of "unthinking individuals," who called their athletic team the Draft Dodgers. We, the unthinking individuals, regret this fact very much. We never realized that the name we picked for our team would cause so much furor on the South Campus, we hereby announce the changing of our team's name. We will hereafter be known as "The Vigilantes."

Far from being put out by your criticism, we invite it. We are glad to see that *Technology News* takes an interest in what goes on at Lewis, and we will always be considerate of any constructive criticism directed our way.

Former Draft Dodgers

Dear Editor:

Following the last registration, a letter appeared in these columns berating the civilians for getting out of the lines and various other "ungentlemanly practices." Two of my classmates have enlisted since that time due to, among other things, the difficulty of securing enough money to continue. Yet, many students wishing to work on Saturdays were forced to attend classes on Saturdays because all weekday classes had been filled. Why were they filled? Because the Navy men were allowed to register first and quite naturally took the choicest classes.

Why not help the remaining civilians to stay in school by exempting ALL civilian students from Saturday classes and filling them, if they must, with Navy men who are down here every Saturday! Another registration takes place in eight weeks; will they again blame us for jostling our way to the head of the lines, if it means the continuation of our education?

Jacob Dumelle,
Junior Mech.

Dear Editor:

I noticed in the last issue of *Technology News* that all civilian students who have not passed their first semester of their sophomore year by March 1, 1944, will be forced to follow the curricula as prescribed by the Navy. Now, I am wondering by what right or reason should we civilians be compelled to adapt the Naval curricula. If our tuition were paid by the Navy, the plan would be entirely within reason. But since this is not the case, why should we civilians submit to such an obvious disregard of civilian rights? I think that the persons responsible for this atrocious deed should issue an explanation of their unjust action or perhaps the freshmen should depart en masse to other schools which have a greater respect for civilian rights.

J. P.

Dear Editor:

Something ought to be done about things like this: When William Pomerhn arrived at the La Salle Street Station last July as a V-12 transfer from Tri-State College in Indiana, he had good reason to be very unhappy about his transfer to Illinois Tech. It was necessary for him to ask two taxicab drivers and three policemen as to the whereabouts of IIT before he finally got an evasive answer.

The first two cabbies and policemen either hadn't heard of IIT or had no idea of its location, and the third policeman, who was queried on an "L" platform had a vague idea that it was somewhere on the south side in the colored district.

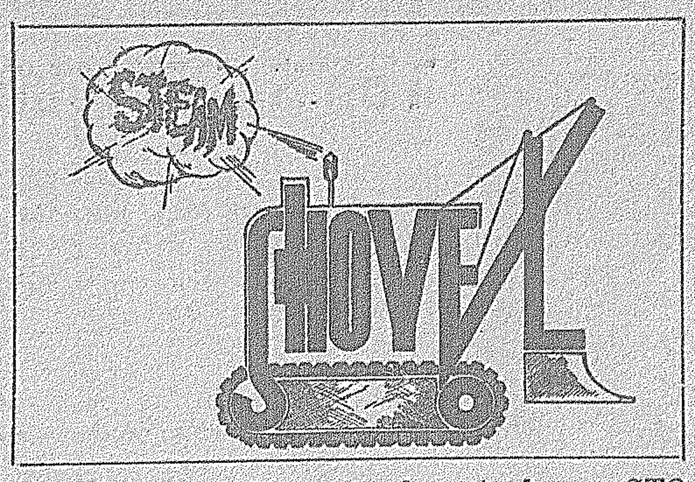
T.R.

Names in Notes...

ALAN GRANT, freshman mechanical and his sister won first prize in a "Most Beautiful Twins" contest when they were five years old. The award was a free trip to Niagra Falls... FRED BELCOVE, 6 feet 4 inches tall, is the tallest freshman at IIT...While studying at the University of Paris, F. K. RICHTER, language and literature instructor, once met Madame Curie...A sophomore mechanical, SHIRLEY SEXSON, has traveled in all states of the Union, in addition to Canada and Mexico...The youngest members of the junior and sophomore classes, respectively, are JACOB DUMELLE and DON ARENSON. Dumelle will graduate in 1945 at the age of 18; Arenson, a physics major is 17 years old...In his research with the electrons microscope P. L. COPELAND has as assistant none other than MRS. COPELAND herself...EDWARD WAGENKNECHT, professor of English, is an ordained minister . . . JOHN J. SCHOMMER is a member of a sports committee which is attempting to solve a part of the juvenile delinquency problem

CHICAGO—

Duke Ellington Moves Into the Boulevard Room



The current lesson on how to be an STO comes from Harley ("Love 'em and leave 'em") Flanders, who met a girl he was really taken with. To make it even better, her pater is a millionaire, too. Flanders immediately went home and began hoarding enough "A" coupons. After four weeks of scrimping he finally drove across town, took the object of his affections to a movie and then straight home, and promptly left. He still likes her, but he hasn't seen the girl since. Someone should show Harley there is an Santa Claus and teach him the things every young man should know.

Walter Grengg and Dave Levinson, "exclusive printers for the sophomore class", use their engineering ingenuity in pursuing their trade. Bids for the recent sophomore party were made using linoleum blockprints and the usual sticky ink. The two employed the Levinson washing machine to turn out their unique product and managed to color the rubber rollers a sickly green. Does anyone want to adopt a slightly dented Levinson?

"GOAT OF THE WEEK"

Norm Offenberg, soph mech, sure has turned his love life into one big mess, and the way is open to those interested. His fellow frat members trying to help things along, announced his engagement to one Dorothea at the Integral dance. Norm says he doesn't see her any more, so anyone desiring to straighten out this little catastrophe can reach the lass at SOU. 4891.

They say that the Lewis gals would like to have a law passed so that for the duration, at least, New Year's Eve would always fall on Saturday. Seems that most of the Lewis lassies date service men and the powers that be don't deem a New Year's eve liberty a necessity. The gals were dateless, as were the guys, to the chagrin of both. And next year it's on a Sunday—

The secret is out now why Herbert Bernstein, professor of chemistry, always comes rushing in to his classes at the last minute. It seems that affairs in his office have proved too great an attraction for him. Last week he was describing optical isomerism by means of structural models of molecules. Part of his class was still puzzled even after the demonstration. Noticing this, Bernstein said, "If you still have any difficulty, come up to my office and play with the models. Then all of your troubles will be over." It took quite some time for the laughter (and the Professor's blush) to subside.

The honor of being dubbed a S.S.T.O. (Smallest Small Time Operator) can no longer be aplied to Don Slager, vice president of the freshman class according to Slager. It seems that a certain Montana redhead made Don's Christmas vacation trip home very enjoyable and now he feels that he should be promoted, at least to a S.T.O.

The somewhat dubious honor of being this week's S.S.T.O. (Smallest Small Time Operator) goes to freshman, Bob Havlik, who has been out on a date only once. At that time he was so terrified that he has never since been able to muster up enough courage to try again. It's really too bad; besides it's guys like that who make the man-power shortage even worse.

Ever since the recent popularity contest, Secretary Blanche Buerckholtz has been wearing a new hair-do. Besides that, she has switched to ankle socks for greater leg emphasis. Local experts in such matters predict that another contest is not far off.

Add this to the list of quaint excuses which women use to break dates: John Sachs, soph physics major, had all his plans made for a gay time at the Pi Kappa Phi New Year's Eve Party, that is, up to 8 o'clock the night of the affair. At 6 o'clock of the fateful eve, all was well, but when Sachs called for his chick at 8 o'clock, he was informed that she could not go because she had "fallen on her head while ice-skating the day before". Sachs, for some strange reason, doesn't believe the story.

Seen in chow hall: A/S "Phenorton" McElwain of Quarters No. 3 trying to sugar his grapefruit and talk at the same time. Results: the cap on the sugar container came off and the "Phenorton" had a white breakfast.

—BROTHER TINSLEY PHENORTEN

About the time that the new year came to Chicago, there arrived one Edward Kennedy Ellington. To none but the most avid jive addict, the "Edward Kennedy" may not mean very much, but the more familiar "Duke" is recognized by even those who don't know the difference between a double pradiddle and a double bass.

Duke Ellington promptly moved into the Stevens Hotel when he hit town, and now holds forth in the newly opened Boulevard Room in the hotel from 7:30 to 1 of a convenient evening. He's still offering the same kind of music that won him the "King of Swing for '43" in the last Downbeat poll.

Duke Ellington

In a *Technology News* interview, the Duke stated that he has kept up with his composing, and is about ready to add another to his long list of musical compositions. He exepcts to premier a new nurmber before long, and it's being written to provide atmosphere for the Boulevard Room. In keeping with the French influence of the room, the Duke expects to call his new series of numbers the "Perfume Suite."

The Ellington band, unlike so many others, has suffered comparatively little from the draft so far, so Techman can expect to hear the usual Ellington quality of strict jive.

* * *

The Civic Opera house is the place, and "Sons o' Fun" is plugged as the featured attraction.

For those who have seen "Hellzapoppin," this Olsen and Johnson production will ahve an all too familiar ring. The same situations are ,there just as they were with the two Scandinavians before the death of the vaudeville. There is the same "comic" policeman roaming the lobby, the same usher sending customers to the wrong seats.

the alumni corner

After seeing action in the invasion of Morocco and the battle of Kasserine Pass, Gafsa, El Guettar, Macnassey, Mateur, and engaging in the last tank battle of the Tunisian Campaign, Major Lawrence Smith, A'24, was wounded during the invasion of Sicily. He served on the general staff corps, military intelligence division, and is now recovering in Michigan.

—IIT—

The highest score ever recorded in the Army Air Corps mental tests was made two weeks ago by Howard R. Stevens, III'42, who is now in basic training in Miami.

—IIT—

Although a south sea island beauty might excite one to romance, Major Louis S. Green Green, A'25, shows preference for U.S.A. girls. He married an army nurse "somewhere in New Guinea" last September.

—IIT—

Former ace swimmer of III, Whitney Pearson, a pharamacists mate, took third place in a recent Hawaiian naval swimming meet.

Such Is Life

They say Frank Sinatra is peddling vitamin pills now. While the thought of the guy with the glamor tonsils selling vitamin products is about as logical as an IIT engineer writing on how to stay awake during class, Sinatra's new radio program has a sponsor.

As yet, experienced news commentators are at a loss to fully explain the psychology behind such a move, although three theories have been advanced.

First, the experts say, the pill makers may be ready to start a series of "before and after" advertisements. Naturally the moaner will be used as the "before" exhibit.

The second theory is that Sinatra will be held up as an object lesson. Perhaps radio listeners will soon be hearing, "Friend, before me I have a man swaying, clinging to a bending microphone, and gasping for breath. Friends, do you want this to happen to you?" Then the announcer will slyly slip into his spiel about the merits of his product.

Third, there are some who say that the sponsor is very clever. They reason that anybody who can inspire anything from female fainting spells to flap-eared phenortons, should surely be able to sell a few million vitamin pills.

Research Reports—

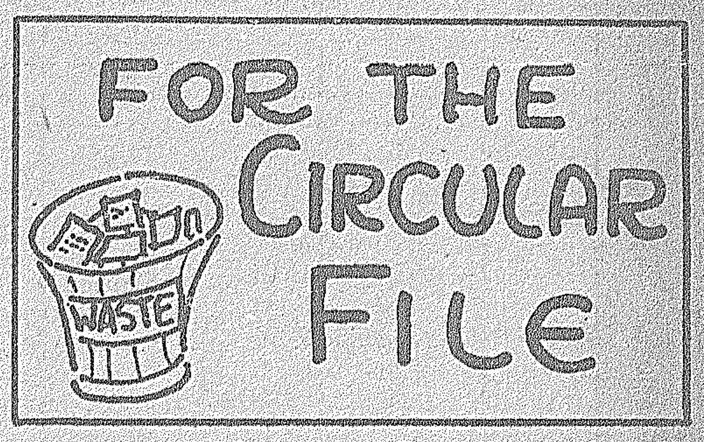
Theory of Lattices is Field of Research for Professor Wilcox

(Editor's note: This column will present each week a brief report of the various research projects being carried on at IIT. Since *Technology News* is the student newspaper of a technical school, these articles will be of a more technical nature than would be possible in an ordinary newspaper, but they will nevertheless be written in such a manner as to be accessible to the majority of the student body.)

The field of research of Professor L. R. Wilcox of the department of mathematics is the theory of lattices and partially ordered sets. Although begun by the famous mathematician Dedekind in 1900, this subject has commanded widespread attention only during the last decade. In fact, as a separate discipline it is so new that only one book has been written about it. The subject itself is of interest because it touches virtually all branches of mathematics and some of physics, including abstract algebra, theory of functions, almost all geometry, various theories of integration, symbolic logic, theory of probability and quantum mechanics. There is even a connection with psychology through recent work in factor analysis.

Lattice theory has bearing on these domains simply because its underlying idea is that of an order relation. Thus real numbers are ordered by magnitude, this fact furnishing the basis for maxima and minima familiar to all calculus students; propositions in logic are ordered by implication, classes or "categories" by inclusion and people by ancestry. The fact that the orderlings in these various systems have different properties leads to classification of the systems into categories and the study of the interrelations of the various categories. The particular category with which Professor Wilcox is concerned is one which includes as a very special case euclidean geometries, both of finite and infinite dimensions. Most of his papers are directed toward a description of these systems in terms of simpler and more fundamental ones. The solution of such problems tends to reduce the number of categories and hence to knit together more closely the various examples of ordered systems.

But Professor Wilcox does not limit his efforts to the purely abstract developments of lattice theory as a science; he has definite ideas that lattices should play an important role in the development of mathematical economics. Thus land is ordered by its productivity, capital and and labor by the extent to which they fulfill their purposes, and even wealth and price functions are ordered in a natural way which makes them lie in so-called vector lattices. He hopes eventually to build a comprehensive general theory of mathematical economics which utilizes powerful tools of modern abstract mathematics including lattices and linear spaces. He has already embarked on this task.



By A. N. NONNIMUS

Ed note:—Several weeks ago Technology News published a review of the latest deelopment in the filed of public transportation—the Trolley Pilot. Since that time Mr. Nonnimus has made an extensive investigation and submits his report.

When a person boards a street car nowadays, he encounters a series of advertisements which hope to entice him into the employ of the transit company.

"Get into War Work—Become a Trolley Pilot," one such placard reads.

Trolley Pilot, mind you. The good old days of the bell clanging, clock watching, truck cursing motorman have given way to the era of the Trolley Pilot. Will the next step in this campaign be the change of the name of the street car to "Crimson Carrier?"

In the near future, we can expect the company to install an intercommunication radio set in each "ship" so that the pilot may converse with his navigator, formerly known as the conductor. A typical converstation may sound like this:

"Trolley Pilot to navigator; have we picked up the beam yet, Joe? Come in, Joe."

"Navigator to Trolley Pilot; still riding the CSL double steel beam, Harry. Everything Roger and Snafu."

Perhaps the divisional headquarters can reward meritorious service with appropriate decorations. A navigator who crowds more than two hundred people in his "ship" at the same time could be awarded the Distinguished Service Cross. Pushing more than three hundred people into the same "ship" certainly should merit an Oak Leaf Cluster. A pilot or navigator who has worked the rush hour for a period of six months may be eligible for the Purple Heart.

A question arises as to what type of uniforms the flight officers will wear. Certainly, the old type unassuming blue suit is not appropriate for a commissioned Trolley Pilot. You may expect to see the pilot climb into his "ship" wearing a heavy fur lined jacket, oversize boots, and leather helmet, complete with goggles. A new man on the job may get to wear the "cadet" uniform while in training.

Any day now, headquarters may receive "logs" of the various "flights" which read something like this:

"Took off from Devon Field at 0800. Visibility poor, ceiling zero. Proceeded south by east following Broadway to State. Changed course to due south at State. Hit line squall in vicinity of Madison. Encountered flak from residents in neighborhood of 43rd Street. Remainder of trip uneventful. Mission completed 0945, approached 79th Street hangar, "Came in with a Ding and the Fares."

Research Foundation Devoted Entirely To War Effort

Metals and Minerals Research Covers Wide Range on Projects

Annealing Copper

During the year Revere Copper and Brass Inc. has launched a new investigation on the annealing of copper. The possibility of heating thin copper strip directly by high frequency currents is now under study.

The Foundation has already done considerable research on the heating of steel strip, in connection with the tinplate studies for the Inland Steel Co., and now the high frequency technique is being used extensively by major producers of electrolytic tinplate.

Container Glass

The glass project sponsored by the Liberty Glass Company continues into its second year. Work on the project has been directed toward improvement in glass manufacture through fundamental long-range scientific investigations of the basic factors of composition and thermal treatment. For purposes of this study a substantial sum has been allocated for acquisition and erection of special research facilities.

Converter Steel

The Whiting Corporation has set up an extensive project on the operation of side-blow converters. A small Whiting side-blow converter has been installed and put into operation. Some new converter linings developed by the Foundation will be tested in the working unit. An attempt is being made to develop a better lining with a longer life.

Cupola Operation

Another research project sponsored by the Whiting Corporation deals with cupola operation. Work on this problem is just being organized as the fiscal year ends.

Die Steel

This research has resolved itself into a study of the fundamental nature of hardenability and a determination of the specific aspects of hardenability responsible for good behavior of die blocks. When a definite knowledge of the mechanism is obtained, it should be possible to suggest means for further improvement.

Dolomite Refractories

Progress on the Marblehead Lime Company prospect on deriving magnesia from dolomite has reached the pilot plant stage with every indication of commercial success.

Forging Magnesium

A research program on the forging of magnesium alloys, sponsored by Revere Copper and Brass Inc., has been in progress for the past two years. This work has included fundamental studies of the flow characteristics of several magnesium alloys as well as detailed studies of the physical properties of experimental and commercial forgings.

Non-Ferrous Melting

An extensive study of non-ferrous melting furnaces and equipment is in progress. The American productive capacity for aluminum is now approximately ten times, and for magnesium approximately one hundred times, as much as it was before the war. This enormous increase in availability of light metals has given added importance to equipment used in melting and fabricating them. The study is being sponsored by the Whiting Corporation.

Open-Hearth Furnace Slags

During the past year, work on the petrographic study of basic open-hearth slags has been completed. This program, sponsored by the Inland Steel Company and continued for three years, has involved microscopic examinations of over 200 samples of slags from various stages of typical heats of all grades of steel. A close relationship has been observed to exist between the mineralogical character of a slag and its essential properties of lime—silica ratio, basicity and oxidation level. At present, emphasis is being given to phosphorous retention, manganese control and slag activity.

Powder Metallurgy

The work on binders for tungsten carbide has continued through the year, under the sponsorship of the Pfanstiehl Chemical Company. In addition to systematic studies of the behavior of certain binders, the effects of sintering temperatures have also been investigated.

In another study in powder metallurgy conducted during the year, a method has been found to produce very porous compacts of copper which have reasonably good strength.

Gyroscopic Type Projectile Studied

Projectiles

A gyroscopic type of projectile has been investigated to determine the extent of improvement on its stability during flight.

Electrical Equipment

During the year a study has been conducted to determine the operating characteristics of a manually driven direct current dynamo under variations in temperature and humidity.

Heat Transfer

The Foundation's heat transfer laboratory has continued to serve in the determination of thermal coefficients for a variety of industrial products. Throughout 1943 this work has involved materials used in war plant construction, housing, military clothing, military vehicles, railway cars, naval vessels, aircraft and similar applications.

Hydraulics

Numerous studies of hydraulic equipment completed during the year include determination of the characteristics of a lightweight high pressure oil pump for aircraft control, a hydraulic variable speed motor, and a variety of hydraulic clutches, brakes and speed reducers.

Materials Testing

A great many tests and investigations have been pursued in the Materials Testing Laboratory during the past year, chiefly at the request of government war agencies or companies satisfying government contracts.

Shock Testing

The Armour Research Foundation, in cooperation with the United States Navy and a group of 20 manufacturers, has built and operates a Navy Shock Testing Machine for lightweight electrical equipment of 400 lbs. or less.

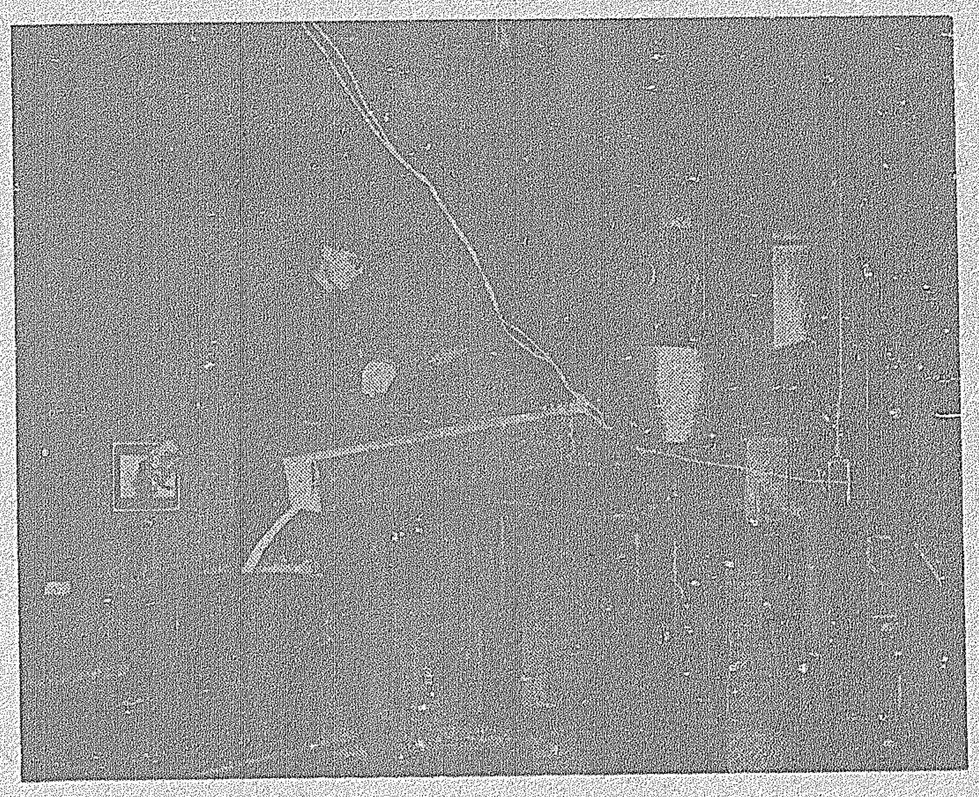
Vibrations

Contributing to a more basic understanding of sound phenomena, an investigation of certain aspects of sound quality has been completed.

Ceramics Research

Measuring Temperature—R. S. Olsen associate ceramist, is pictured making temperature measurements.

Pouring Metal in the Metals Lab



Tapping Cupola—William Wick, now in the United States Navy, is shown tapping the cupola in the Metals and Minerals Research Building.

Chemical Engineering Projects Include Survey of Resources of the Argentine

Argentine Survey

Commissioned in 1942 by the Argentine Trade Promotion Corporation, a government-sponsored agency, to study the economic resources and industrial developments of Argentina, the Armour Research Foundation completed its field investigations in this project during 1943.

The purposes behind this survey were not only to uncover products needed in this country which could be supplied by Argentina but to determine the manner in which technology and research could assist in development and adjustment of that country's industries and products.

Boiler Water Conditioning

A project for improvements in the conditioning of boiler water for locomotives and industrial plants has been initiated by the Dearborn Chemical Company.

An invesigation of the behavior of certain gases under pressure has entered its second year. Following an extensive study of the compatibilities of the gases with a great number of industrial materials, final plant tests on the laboratory results are now being made.

Cooperage

In the investigation sponsored by the Associated Cooperage Industries of America, Inc., considerable work was devoted to a study of the types of liners required to permit shipment of a variety of industrial products in wooden barrels, together with their methods of application. The investigation was centered around the use of materials relatively abundant and simple to apply. Variously modified glues, sodium silicate and special waxes were found to serve as suitable liners for such products as edible oils, petroleum products, dyes, etc.

Core Binders

The project sponsored by the Quaker Chemical Products Corporation for the development of binders used in making foundry cores entered its second year. This investigation is directed toward the development of a broadly new type of binders, with disregard of precedents.

Crystallization

Under the auspices of E. J. Brach and Sons a study is being made of the production and improvement of certain food products. Concerned primarily with development of drying methods, controlled crystallization, and surface coatings to prevent or reduce to a minimum the staling of food products, the work outlined for the future includes standardization of a number of the manufacturing methods employed by this company.

Drum Closures

The research project of the American Flange and Manufacturing Company continues into its sixth consecutive year. During the past year a number of possible rubber substitutes were investigated to determine their suitability for closure gaskets. A wide variety of tests were made on drum closures themselves and on containers equipped with drum closures to determine the safety and efficiency of these for the shipment of aviation gasoline and other vital commodities for the Armed Forces.

The chewing gum manufacturing process developed by the Foundation in 1942 has been set up at the Wrigley plant and is expected to produce gum in commercial quantities shortly.

Fabric Coatings

A comprehensive program for the development of new coating materials and the improvement of present materials and processes is being sponsored by the Joanna Textile Mills. As one phase of the project, a study has been made of the manufacture of tracing cloth and a pilot plant has been set up for experimental work.

Fibers

A project sponsored by the Hawley Products Co. has entered its second year. The program has continued with fundamental studies being carried on simultaneously with developmental work. Among the latter should be mentioned the improvement of radio speaker cones and diaphragms with respect to waterproofness, and the application of special drying methods for curing plastics.

Malting

Under the sponsorship of the Rahr Malting Co., a developmental study is being made on the utilization of a great variety of farm crops. A preliminary phase of this investigation is concerned with determining optimum germination conditions and the changes effected during germination. Simultaneously with this work, the utilization of certain enzymes, molds, and bacteria is being considered.

Meat Processing

An investigation concerned with the sanitary aspects of meat processing was concluded during the year. Final recommendations emphasized the need for re-design of present equipment in order to facilitate access to guarded parts for cleaning and to eliminate many unnecessary potential breeding spots for organisms harmful to the public health.

Appropriations Top $1,250,000

The second anniversary of Pearl Harbor finds the seven-year-old Armour Research Foundation devoted entirely to war service. For the year just concluded, its scientific services to the nations' armed forces, industries and general public have involved research appropriations of about $1,250,000, with expansion continuing in order to meet the increased demand for the technical efforts of the organization.

Armour Research Foundation developments, many of them created since Pearl Harbor, have contributed to the major Allied victories on land, sea and air, and are now in active use in every war theater as well as in a host of war production industries.

Tech News readers are already familiar with the cooperative affiliation which exists between Illinois Institute of Technology and the Armour Research Foundation.

New students may not know that this separate corporate non-profit industrial research organization occupies five buildings on the south side campus, not including additional laboratories under construction. Although the administration and staffs of the two institutions are entirely separate, a close coordination of objectives is achieved through the fact that their boards of trustees have the same membership.

The public service activities of Illinois Institute of Technology and Armour Research Foundation complement one another; the Foundation's operations are, of course, entirely in the research category, and of a character somewhat different from the extensive research carried on in the Illinois Institute of Technology graduate school.

The Armour Plan for Industrial Research has proved especially adaptable to the emergency research needs of the army, navy and war production industries. Each problem is subjected to the collective thinking and cooperative action of a large permanent staff of full-time research workers in virtually every scientific field.

During the year 92 long-term projects have been in operation, including 40 new ones. To date the Foundation has undertaken a total of 223 such long-term industrial research projects. At the present 84 projects are in operation.

At the same time, 1022 new short-term studies and special tests were completed during the year, bringing the total of these to 4803 to date. In all, 1405 companies, associations of manfacturers and governmental agencies, including 156 new sponsors during 1943, have made use of the services and facilities of the Foundation.

$75,000 Lab Under Construction for Lubricant Studies

Lubricants

The Foundation's automotive lubricant program has expanded heavily during the year, necessitating the erection of the $75,000 engine laboratory now under construction on Federal Street. This activity now serves every major petroleum producer in the U.S. as well as additive manufacturers and otners. It has been made the central Diesel lubricant laboratory for the entire Army Ordnance Ground Force, as well as the reviewing point for the work of other laboratories in this connection.

Studies have involved both research and large scale engine testing. Much work is in progress on chemical compounding agents, additives and rust preventive oils, as well as anti-foam materials and metal deactivators.

The Rotary Kiln in Operation

EISENHOUR MAKES TEST RUNS—Charles W. Eisenhour is shown making test runs on rotary kiln located in the ceramics Lab.

Color Separation and Corrosion Fatigue Are Two of Many Physics Projects

Calculating Machines

During the past four years the Foundation staff members associated with the program on the noise reduction of the Comptometer Calculating Machines for Felt & Tarrant Manufacturing Company have developed special techniques in adapting electronic equipment to the measurement and analysis of sound or vibrations. The availability of these skills and equipment made it possible for the Foundation to embark quickly on a critical N. D. R. C. war research project without any loss of time for preliminary organization.

Color Separation

The extensive program of color reproduction for the Graphic Arts carried on at the Foundation for several years has made possible the acquisition of knowledge, experience and skills in handling color reproduction techniques. The background thus provided has proved indispensable during the past year in connection with the Army and Navy Diesel Lubricant Testing Program, as in a part of this testing program it is necessary to make photographs of the pistons and bearings in full color so that proper evaluation of the performance of the oil can be made by the appropriate army and navy approving committee.

Corrosion Fatigue

A comprehensive study has been conducted to determine why certain high pressure gas cylinders fail in service shortly after having passed the standard hydrostatic test. This study has revealed that failures of this type are due to corrosion fatigue of the interior surfaces.

Diesel Combustion

The development of equipment and methods for making optical studies of diesel combustion, which has been carried on for the last three years, has been successfully completed. Some of the optical methods are now being adopted as standard engineering tools in the research and development laboratories of the Caterpillar Tractor Company which sponsored this work.

Electro-mechanical Devices

During the past year the electrical staff of the physics section has cooperated with the electrical section of the U.S. Army Engineer Board of Fort Belvoir, Virginia, in a program of research and experimental model construction on electro-mechanical devices for military operational use.

Filters

The Cuno Engineering Corporation has under way a study of both aircraft lubricating oil filters and gasoline filters for naval use.

Several time-saving methods for manufacturing gasoline filters were studied during the year. Numerous filtering media were examined in order to develop a small and effective lubricating oil filter of the full-flow type. A study of hydraulic fluid filters has been started to develop a filter for use by the armed forces.

Fluid Flow

The study of the cavitation effects produced by the rapid flow of water through valves and orifices has been continued for another year. A method of applying high speed photography to this study has been worked out, and is being used to obtain more exact information on the nature of the cavitation process.

Mica

Prior to the beginning of the present war, this country depended very largely upon India for its supply of strategic mica. The danger that imports from this source might be curtailed or stopped entirely made it imperative that the War Production Board take immediate steps to increase the production of mines in this country and, at the same time, launch an extensive research program to find methods of more rapid inspection and fabrication of the block mica. The Armour Research Foundation is one of three laboratories in the United States selected to cooperate in these research investigations.

National Defense Research Committee

Extensive projects have been conducted for the N. D. R. C. by the Foundation. As these projects are in the restricted classification it is not possible to report any information on them other than the fact that the broad facilities of the Foundation have made it possible to carry several programs through all stages from developmental work to actual production of equipment for field tests, and that some of these developments have already been used effectively on various battle fronts.

Spray Equipment

Operations in the Spray Equipment Project during the year have been restricted to testing work on the performance of several small compressors to be used for special purposes by the air corps.

Watch Technology

During 1943 the Watch Technology Project has been devoted entirely to problems arising in connection with the manufacture of timing mechanisms for military uses.

Special Studies

In addition to its long term research programs the physics section has served in many other ways. Special techniques in light transmission, colorimetry, microscopy, spectrophotometry spectrography and X-ray have been applied to the solution of problems not only in physics but also in chemistry, metallurgy and mechanics. Even greater has been this laboratory's contribution in these other fields through specialized photographic methods such as photo-micrography, macro-, macrosteres- and microflash-photography, and high speed motion pictures.

Airport Paving Is Mechanics Study Sponoserd by CAA

Airport Paving

Studies on airport paving are being made for the Civil Aeronautics Administration. This work involves determinations of static and dynamic loads imposed by military aircraft on runway surfaces.

Brake Press

During the year both photo-elastic and electrical strain gage analysis were made on a Verson Allsteel Press Company brake press. The photo-elastic analysis was used to indicate points of stress concentration by the use of bakelite models, and actual measurements were carried out dynamically on the prototype.

Core Boring.

The Civil Aeronautics Administration is sponsoring a project for obtaining undisturbed test cores from soil stabilized materials.

Electric Motors

Studies have been made to develop a fractional horsepower single-phase motor with a high starting torque. The new motor was required to offer better starting characteristics than are now normally available. The investigation included the possiblity of production at lower cost.

Gear Wear

Progress continues on the Whiting Corporation project to determine the factors which contribute to gear wear, in order to obtain a practical formula for the design of gears.

Impact Studies

The fundamental impact studies sponsored by the Whiting Corporation are continuing, with the overall object of obtaining design criteria for material subject to dynamic loading. Of special interest is the intensity of load or the magnitude of the stress that can be carried safely over extremely short periods of time.

An X-ray diffraction technique has been developed for the quantitative measurement of plastic deformation in structural steel, and has been employed in the determination of both the magnitude and depth of penetration of plastic flow in the neighborhood of the points of collision of pairs of pendulum bars.

Pressure Vessels

Large scale tests are in progress, dealing with the fatiguing of an industrial pressure vessel requiring raising and lowering the internal pressure from 200 lbs. per sq. in. to 1200 lbs. per sq. in. through 100,000 cycles. The vessel is quite large and requires heavy pumping facilities.

Volute Springs

Under the auspices of American Steel Foundries, an investigation on the characteristics of volute springs has been carried out. The results of this work appear in the first Proceedings of the Society for Experimental Stress Analysis.

Welded Tanks

The investigation initiated by Chicago Bridge & Iron Company, on the effect of the hammer test on welded pressure vessels, has been carried to a conclusion. The results of this work have been presented to the American Welding Society.

Wire Rope

A large fatigue testing machine has been built to determine the effect of various factors on the life of wire rope. Studies are now being conducted on 1/2" extra-flexible crane ropes using several different sheave diameters.

Wood Technology

During the past year a laboratory for investigation of wood products has been added. Rilco Laminated Products, Inc., one of the Weyerhaeuser companies, is sponsoring a project for the development of laminated structural members from lumber. This study includes the investigation of wood, adhesive preparations, jointing methods, and plant control.

Need of U. S. Forms Nucleus For Foundation's Own Research

In addition to the services rendered through the medium of industries, associations and governmental agencies, and in other ways, the Foundation regularly carries on research under its own sponsorship on problems of general public benefit and on development of devices and principles of significant scientific application. In common with the other phases of the work, during the past year this part of the Foundation's program has been concentrated upon subjects of immediate or potential value to the war effort both at home and abroad.

Electrical Weighing

Work is in progress for the application of various types of electrical gages to the problems of static and dynamic weighing.

Electron Optics

During the year a program of theoretical studies in electron optics has been under way. Through a mathematical application of the "stream function," a formula has been developed for the refractive index in electrostatic and magnetic fields. The formula takes into account the relativistic change of electron mass which is of practical importance in the case of high speed electrons.

Electronics Research

Purely as a Foundation contribution to war needs, a general electronics development program has been in progress. Equipment utilizing multiple differential timing circuits promises to be of particular significance in meteorological and seismic applications. Other investigations pertaining to the use of modulated infra red radiation have led to the development of equipment that will find application in protective alarm systems, traffic control, railway signaling, etc.

Elevator Controls

During the past year the new automatic leveling system for elevators, developed and patented by the Armour Research Foundation as a result of Foundation-sponsored research, was first applied with satisfactory performance in a hospital passenger elevator. The new system gives a constant slowdown speed independent of the weight of the car load, together with better leveling and accuracy of stop, and permits the use of standard A.C. elevator equipment without conversion to D.C.

Ozone

Studies of the use of ozone in various industrial operations have been continued throughout the year under the sponsorship of the Foundation.

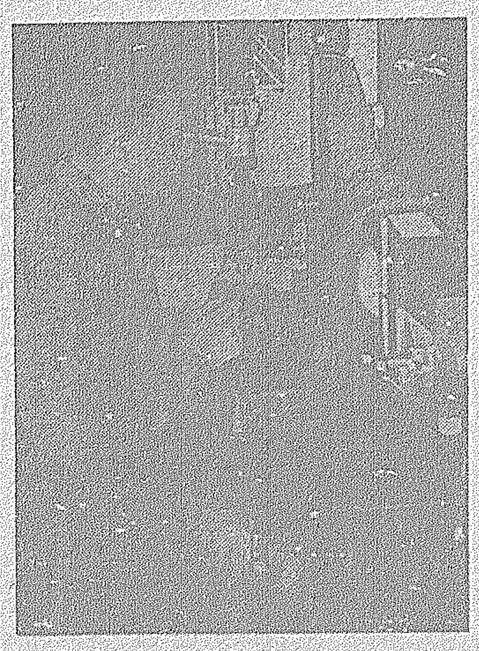
Sound Recorder

In addition to the continuous research program on the Foundation's newly developed Magnetic Wire Sound Recorder, the organization has found it necessary to undertake the actual production of a considerable number of these instruments. This production, by hand-methods, was requested of the Foundation as an emergency measure in order to meet urgent military needs during the period in which the General Electric Company was tooling up for licensed commercial-scale production of the units for a wide range of military applications.

Vegetable Oils

As a Foundation sponsored project a study of oil bearing seeds growing within the continental United States has been initiated, to alleviate the shortage of certain oils heretofore imported from sources no longer available. Preliminary surveys made over a period of months indicate that certain oil-bearing seeds not now utilized may assume a position of major importance not only in making the United States independent of foreign supplies, but also as a pay crop for acreages unable to support conventional farm products.

Photomicrographs



TAKE FUSION MOVIES—Paul Moreo is shown making photomicrographic motion pictures of metallic fusion.

National Registry of Rare Chemicals Extends Service Throughout Entire World

Apart from the general operation of advancing the useful knowledge of science and of providing a scientific research and engineering service to industry on a not-for-profit basis, the Foundation has continued to engage in various other specialized services in the public interest. Certain ones of these may merit particular mention.

National Registry of Rare Chemicals

Now well into its second year of operation since its establishment by the Foundation in the middle of 1942, the National Registry of Rare Chemicals provides without charge a central world clearing house for information on the location and availability of uncommon chemical materials needed for special purposes.

The Registry has been able to fill 75% of the requests received, and at the end of its first year 2100 such requests had been received from laboratories and plants in the United States, South America, England, Australia and the Union of South Africa. The Registry files contain immediate sources for more than 6,000 rare chemicals.

City Noise Reduction

In connection with the campaign to reduce city noises in Chicago, the Foundation and its staff members have participated actively without remuneration, supplying equipment, making noise measurements, and publishing the monthly News Letter for the Greater Chicago Noise Reduction Council.

The annual Achievement Award for the most active work in reducing city noise in a city of 500,000 or greater population has been given to Chicago for the year 1942-43 by the National Noise Abatement Council, as a result of the program carried out by the local organization.

Civilian Defense

During the past year the Foundation's contribution to the work of the Office of Civilian Defense, Department of Techniques, has included skilled photographic service and consultation in the evaluation of smoke obscuration as a means of air raid protection.

During the preceding year the Foundation provided its facilities to aid in determining the type and locations of air raid warning signals for proper coverage of Chicago's industrial, business and residential areas.

Ceramic Arts and Crafts

By the use of the ceramic milling equipment and kilns the ceramic laboratories have been able to aid the war program through direct service to Foundation research projects and by making, from ceramic materials, critical parts to replace rare or costly metals in certain apparatus and factory production equipment.

Tech Cagers Win Sixth Straight Game

IM Touchball Tourney Nears Final Stages

The Soph Mechs defeated the Senior Chems 6-0 and the Junior Mechs No. 2 13-7 and so extended their lead in the race for the intramural touchball championship to two games.

Using the same kickoff play which defeated the Junior Juicers in the last few seconds of their last game, the Soph Mechs drove to a touchdown in three plays. The actual score was Bob Negeles catch of a pass in the end-zone. The rest of the game was a see-sawing defensive game which resulted in no more scoring.

Other noteworthy performances were the blocking of Irvin Reveschimi and Hank Rebman, the pass intercepting of Jack Eulitt, and the rushing of Don MacMillan and Cliff Oliver.

In the Senior Mech No. 2 game after scoring the first touchdown on a long pass to Rod Fraser in the first half, the Soph Mechs scored again on a bullet pass by Red Wingert to Bob Negele in the end zone. The conversion was made on another pass to Ernie Krause.

A rally by the Senior Mechs No. 2 in the second half resulted in a touchdown scored by Tom Henegham. Outstanding for the losers was Roy Lo Presti whose rushes worried the soph passers. He also blocked a punt which almost resulted in a touchdown for the Senior Mechs No. 2.

One of the upsets of the season was the defeat of the Senior Chems by the Senior Mechs No. 1 to the tune of 13-6. The Senior Chems drew "first blood" on a catch by Jack Eullitt in the end zone of Dick Larson's pass. The Senior Mechs No. 1 retaliated before the end of the half by a touchdown with John Kastholm crossing the goal line after receiving a short pass from George Soiya.

In the second half the Senior Chems kicked off to Bill Lenge who returned it the length of the field for a score. The conversion was good on a pass to Al Purzycki. After this the game settled into a defensive battle with neither team scoring.

Team	Win	Lose
Soph Mechs	4	0
Senior Mechs No. 1	2	0
Senior Mechs No. 3	1	0
Junior Civils	1	0
Coops	0	1
Senior Mechs No. 2*	0	2
Senior Chems*	0	2

*Dropped from tournament.

Record Crowd Sees IIT in Chicago Win

Playing before a record crowd, IIT's basket-ballers trounced the University of Chicago team 43-45 on the Wednesday preceding Christmas. It was the first victory for Tech over Chicago since 1934. The victory was an especially sweet one for Tech since they were the last ones to lose to Chicago before the Maroons started their 45 game losing streak.

Basketball Tourney To Begin this Week

The interfraternity basketball tournament swings into full operation this week with the following schedule:

Jan. 10-14

Alpha Sigma Phi vs Triangle

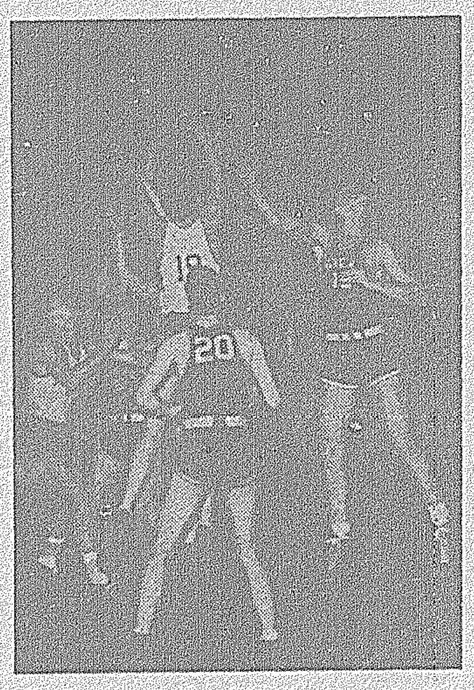
Rho Delta Rho vs Delta Tau Delta

Pi Kappa Phi vs Sigma Alpha Mu

No times are specified because it is up to the opposing fraternities to arrange their own times.

Senior Chems Defeat Junior Mechs No. 1 To Keep Bowling Lead

Chicago Falls to IIT



MAROONS LOSE number 45—Smarting under the title of "last team Chicago beat," IIT outplayed U. of C. and won by 43-35.

The Senior Chems, leader in the intramurel bowling tournament, retained their lead by taking two games from the Junior Mech. No. 1 team last week.

Evidence of the ferocity of the match can be seen in the fact that four of the ten men bowling in the match totaled 500 or better.

Highest game of the tournament is the 228 held by Al Petronis of the Senior Chems and made five weeks ago. Russ Boettger of the Mechs missed tying this by two pins, getting 226 and 559 for this series. High men of the Chems were Paul Dalenberg with 202 and 551. Al Petronis with 200 and 547 and Bill Collins with 503.

In the only other match which was completed last week the Senior Mechs stayed in second place by winning two games from the Senior Civil No. 2 team. Harry Schrader of the winners was the best with an even 200 game and an even 500 series.

Team	Won	Lost	Pct.
Sr. Chems.	12	3	.800
Senior Mechs	6	3	.667
Senior Civils No. 1	4	2	.667
Junior Mechs No. 2	5	4	.555
Junior Chems.	3	3	.500
Junior Mechs No. 1	5	10	.333
Sr. Civils No. 2	2	7	.222
Soph Chems.	2	7	.222

Lewis IM Games In Full Swing

The IM basketball tourney reached a new pitch in excitement last week as three undefeated teams entered the four games played Thursday. Two emerged from the closely contested battles with their 1,000 percentages unchanged.

In the first morning game played thus far, the Jerks beat the Phenortens 35-29. Four baskets cost the new Vigilantes the lead in the race as they lost to the flying Air-Corpses 33 to 25. Coach Ed Wagner refereed this game.

The third match of the day had the spectators on the edge of their seats as the Short Circuits edged out the Iso-Dopes by a score of 25 to 19. The Morons chalked up their first win and scored the most decisive victory of the day, defeating the Tigers 21 to 10. Following are the official standings as of January 7:

Team	L	W	%
Air-Corpses	0	3	1.000
Short Circuits	0	3	1.000
Vigilantes	1	2	0,667
Jerks	1	2	0.667
Phenortons	2	1	0.334
Morons	2	1	0.334
Tigers	3	0	0.000
Iso-Dopes	3	0	0,000

Techawks Top Teachers 49-38

Returned to action after a two week lay off IIT's basketball team beat Chicago Teachers College 47 to 38 last Tuesday.

These five straight wins equal the longest Techawks winning streak in 15 years.

The Techawks started out slowly in the first quarter, the score being 12 to 8 at the quarter. Bob Kidd put in 5 points in this period.

At that time, an entire new Tech team went in, and ran the score up to 24 to 13, at half time. Don Lange was the big gun in the Tech attack, getting 8 points in the second quarter.

Throughout the second half, Illinois Tech and CTC matched each others scores. The Tech five couldn't pull out in front any further and the game ended at 47-38.

Don Lange continued his furious pace with 4 more points in the second half, making his total 12 for the game. Sid Zomfler of CTC matched this with 12 also. Tom Gavin with 8 points was second high scorer for the Techawks.

IIT to Forego Relays in 1944

The annual Illinois Tech Relays will not be held this year due to war conditions, said John Schommer, chairman of the committee in charge of the Relays. The schedule of the University of Chicago fieldhouse is now filled with service programs, and thus the fieldhouse would not be available for the relays.

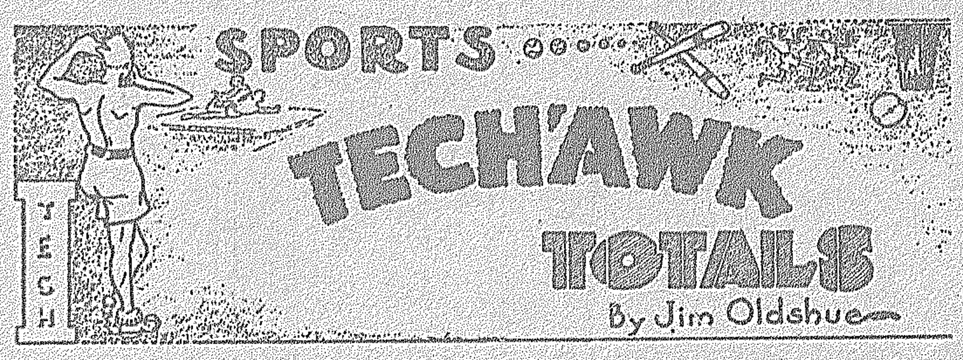
Before cancelling the relays, the committee also took into consideration the difficulties caused by bringing 300 to 400 trackmen into Chicago on strained transportation systems.

In contrast with last year when several inquiries were received concerning the holding of the relays, no requests have been received this year. This indicates the uncertainty of colleges' even having track teams.

IIT Cagers to Play Twice This Week

Possessors of a six game winning streak, the longest at IIT in 15 years, the varsity cagers will be trying for their seventh and eighth consecutive victories this week. Their season record is seven wins and two losses.

They play the U of C Radio School Wednesday night at 9 PM at the U of C Fieldhiuse at 56th and University Ave., and on Saturday night they travel out to North Central.



At last the slumbering school spirit of IIT has been awakened. The pep rally held the week before Christmas to help our basketball team on to victory over the University of Chicago turned out to be a great success. It aroused the pride and spirit of Illinois Tech students like nothing else has in several years and it kept them aroused.

H. T. Heald and R. J. Spaeth

Beginning as Paul Ridings told of our being the last team to have been humbled by the U. of C. before they lost 45 straight games, gathering momentum as Ed. Wagner assured the school that the team was capable of victory, and reaching its peak as John Schommer gave an inspiring talk of the morale building effect of cheering followers, the dormant student enthusiam and school spirit reached a new high. You could almost sense a new determination around the school to give the basketballers all the support necessary to assure a victorious Illinois Tech team.

That there was a new spirit on the campus was proven by the packed and jammed balcony at the Valentine Gym. Before the game had even started, there was standing room only in the balcony. Never in the memory of anyone on the team in past years had there been such a turnout of Illinois Tech students to watch a basketball geme. And the crowd wasn't silent either. They made the gym resound with yells and cheers for the Techawks.

Long before the pep rally was even being planned, the basketballers were determined to make this season the most successful year of IIT, and especially to beat Chicago. After the rally and after seeing the balcony packed with Tech rooters, they couldn't lose; they couldn't and didn't. Their response to all the school support was a decisive victory over Chicago.

Not only did student rooters come out to the game, but two of Illinois Tech's busiest administrators found time to come out. President Henry T. Heald and Treasurer Raymond J. Spaeth cheered throughout the entire game.

This enthusiam has carried over the holidays, for last Tuesday when IIT traveled over to Chicago Teachers College, there were as many Techawk followers at the game as there were C.T.C. students.

I know of nothing that is needed as badly on the Illinois Tech campus as this school spirit. Every IIT student should have a whole-hearted interest in the various activities on the campus, a determination for IIT to have the best teams and other organizations as possible, and a genuine pride in the accomplishments of the teams and organizations. I also think that IIT students are eager for such a school spirit. Here at IIT we have an

Techawk Five Victors Over J. P. I., 52 to 40

Quintet Has Longest Illinois Tech Winning Streak In 15 Years

Setting a new modern record at IIT for consecutive victories, the Techawk basketballers overwhelmed the Jewish Peoples' Institute 52 to 40 last Saturday night. This gives the cagers the longest Tech winning streak in 15 years.

At the end of the first quarter, IIT was out in front 16-14. An entire new team went in during the second quarter and ran the score up to 37-27 at halftime.

At the end of the second half, the Techawks maintained their lead and the game ended 52-40.

Glen Neiswander A/S was high for IIT with 13 points.

IIT—52	fg	ft	pf
Kidd, f	3	0	1
Kilgariff, f	3	1	0
Granum, f	2	0	0
Neiswander, f	6	1	1
Koci, c	0	0	1
Oldshue, c	4	0	0
Gavin, g	3	1	1
Puchalski, g	0	2	1
Kasnicka, g	2	0	0
Lange, g	0	1	2
Totals	23	6	7

J.P.I.—40	fg	ft	pf
Spector, f	5	1	3
Mendlesb'g, f	0	0	1
Ordman, f	8	3	3
Edelheit, c	0	0	2
Bernstein, c	0	0	1
Sternberg, c	1	1	0
Norman, g	3	1	1
Feldman, g	0	0	0
Weisbach g	0	0	1
Totals	17	6	12

IM Captains to Pick All-Stars

The following team captains are to serve as judges in the selection of an All Star Touchball Team, announced Jim Oldshue, Tech News sports editor.

They are Cliff Oliver, Ted Anderson, William Lenzi, Charles Buckley, Milt Garfinkel, Ronald Lind, Edward Puchalski, Robert La Civita, Tom Ruck, Angelo Shares, Walter Gow, and Tom Heneghan.

It is required of these judges to select two teams of six men each and designate first and second teams.

They are also requested by Oldshue not to select members of their own team to the All Star squad.

Swim Schedule for January Announced

The first of five meets scheduled for the Techawk tankmen during January will be with Concordia, there, on January 14.

The Techmen are swimming against a new opponent on January 19 when they meet Illinois, a big ten school,at Ida Noyes Pool(IIT's home pool). On January 22 the tankers will journey down to Champaigne to clash again with Illinois.

IIT will meet an old rival, Loyola University, on January 28 at Ida Noyes. Last year IIT nosed out the Loyola swimmers by a narrow margin of 4 points.

De Pauw University, a school that defeated IIT twice last year, will be here on January 29 to test this year's squad. These two beatings were half of last year's team's defeats. Last year's team won five and lost four meets.

Tuesday Set for IM Basketball Deadline

Cliff Oliver announced that the new deadline for intramural basketball entries is tomorrow at 5 p.m.

He further made the following change in the eligibility rules. "The only players eligible for a certain year and department team are the members of that same year and department."

"The use of an ineligible player results in forfeiture of the game. Eligibility is to be decided by the registrar's office."

All entries are to include the days on which the team can play."

Microscope, Circular Dividing Engine, Among Unusual Physics Instruments

A rare circular dividing engine.

An equally rare electron microscope.

More than $2000 worth of electrical meters.

These are among the many pieces of equipment, usual and unusual, to be found in IIT's physics department. Some are used for the sophomore and freshman laboratories, some for demonstration purposes, and others for research.

The dividing engine mentioned above has a story behind it. During the first World War, it was the only one in the Chicago area, and was constantly being loaned to various war plants. The instrument is used for accurately dividing a circular scale. It was made in 1895 by the Geneva Society, a Swiss company which manufactures scientific equipment.

Other instruments which date from the 19th century are a lantern polariscope, a Kater pendulum, a standard meter bar, and a photometer bench with related equipment.

The Kater pendulum is an experimental method of accurately measuring the gravitational constant, g. This apparatus was also made by the Geneva Society.

The standard meter bar is a copy of the bar in France which is the standard for all length measurements. The photometer bench, which has a Lummer-Brodhun photometer cube, is used by sophomore students for a light experiment.

The electron microscope, one of the few in this area, together with its various accessories, cost some $11,000. The microscope is housed in a special lab on the third floor of the physics building. The plastic-walls of the room, grey and white to harmonize with the color of the instrument, make this one of the showplaces of the Institute.

Another large and expensive piece of apparatus is the Van de Graf high voltage generator and the pressure tank and auxilliary equipment, valued at $8,741, designed for research in nuclear physics.

But small equipment is also necessary, as evidenced by the fact that the department has some 16 balances, 39 calorimeters (more than 18 different types), and 71 ammeters, voltmeters, etc. All told, the meters are worth $2,187.35. Most expensive one is a $170 kilovoltmeter.

Further proof of the fact that expensive things often come in quite small packages is the prism used in Dr. Forest F. Cleveland's spectroscopy laboratory. Made of potassium bromide it cost $110. The department also has some 59 other prisms, worth $718.25.

Likewise, the department is well supplied with spectrometers and spectrographs—$9,041.55 worth, to be exact. Contributing heavily to this amount is a $2,000 Hilger's Spectrograph, and an Infra-red spectrograph, which was built at the Institute, and is valued at $4,000.

Of historical interest is one item which has been given to the Rosenwald Museum of Science and Industry. It is the induction coil which was used by Lee De Forest, inventor of the triode vacuum tube, in his early work in radio broadcasting. (The triode, which is basic for radio and electronic devices, was developed by De Forest while working at the Institute.) He used the coil to broadcast to the nearby LeCoda Hotel on 31st street, since converted to a hospital. This is believed to be the first radio broadcasting in Chicago.

Final Examinations Set for Feb. 22-26

Final examinations for the current term will be held during the week of Feb. 22-26 according to a newly prepared calendar issued by the Registrar's Office.

It was also revealed that the baccalaureate and commencement for the February graduates will occur on Feb. 20 and 21 respectively. The calendar is as follows:

Feb. 20 .....Baccalaureate
Feb. 21 .....Commencement
Feb. 22-26 .....Final Examinations
Feb. 24 & 25 .....Evening School Registration
Feb. 26 ..Last Day of Second Term
Mar. 1 .....Navy Registration
Mar. 1 .....Orientation Tests
Mar. 2 .....Orientation Tests
Mar. 2 .....Senior and Junior Registration
Mar. 3 .....Soph. and Frosh Registration
Mar. 4 ..New Students Registration
Mar. 6.....Day & Evening School Begins

Pharmacists Mate to Leave for Fleet Duty

A change in the navy medical staff was announced this week by Lt. Comdr. James W. Sours, unit medical officer. George Wise, Ph. M 1/c, has received his orders for fleet duty and will leave the latter part of this month. Wise is to be replaced by Jack Margolis, Ph. M. 2/c, who reported here from Great Lakes. He is a graduate of the pharmacy college at Ohio Northern University.

Anderson Leaves IIT

Le Roy T. Anderson, electrical engineering instructor, has been given a one year leave of absence from IIT to work for the Bell Telephone Company.

Anderson will be replaced by George Levy, who formerly was a radio engineer for United Airlines, according to the electrical office.

Senior Stag to Be Held Feb. 16

The Senior Stag, traditional graduates' get-together, will be held February 16 at Gross's Hall, 2123 W. Roscoe, Mike Coccia A/S, class social chairman, reported today. The event will be a formal dinner. Caterers will be hired to provide the meal.

The affair will feature speeches by class officers. An evening of fun, including games, will follow. Refreshments will be served.

Only graduates will be invited. It is expected that the sole charge will be one-half the price of the dinner. Tickets will be on sale shortly, said Coccia. Seniors are urged to watch for further announcements.

Dean's Office Must Approve All Notices For Bulletin Boards

Starting this week, all notices to be posted on the bulletin boards will have to be approved by the dean's office. This is the latest rule on west campus bulletin boards issued from the dean's office.

Oak headings are being made by the maintenance department for the bulletin boards. The registrar's office, business office, dean's office, employment, social events, scholarships *Technology News*, and the ITSA will each have a bulletin board of its own. These boards will be located in the lobby according to their importance. Two boards are immediately adjacent to the business office and the other six will be found on the two pillars in the lobby.

Bailey to Speak at Power Conference

The keynote of the annual meeting of the Midwest Power Conference will be an address by Alex D. Bailey, vice-chairman of the IIT Board of Trustees. His subject will be "Post War Planning of the Nation's Power Supply."

The meeting will be held at the Palmer House on Thursday and Friday, April 13 and 14, revealed Professor Stanton E. Winston, chairman of the conference.

Seegrist on Leave of Absence Due to Illness

Professor Walter H. Seegrist of the mechanical engineering department is on a leave of absence due to illness. "He will probably resume teaching after the end of next semester," said Professor Stanton E. Winston, who is in charge of the department.

In addition to the regular daytime instruction, Professor Seegrist was also a supervisor of several ESMWT courses at Lewis. Professors Winston, Nachman, and Sogin will take over his classes.

Engineer's Co-op to Decide Important Questions At Mass Meeting Today

The Engineer's Co-op Bookstore may:

Establish a branch at the University of Michigan.

Buy out the Institute bookstore.

Establish a branch on the West campus.

These items are all on the agenda of the semi-annual meeting of the Co-op's stockholders to be held at 5:30 p.m. today in the Auditorium of the Student Union.

Other business at the meeting will include an election of officers and new board members and approval of the annual financial statement. The meeting will be adjourned at 6 p.m. said Don Arenson, president of the Co-op.

The idea of buying out the Institute store would have to be supported by 100% of the stockholders, according to Arenson, who invited all stockholders and interested non-stockholders to attend and participate in the discussion today.

In regard to the possible branch at Ann Arbor, Arenson refused to give any details.

The plans for the Lewis store have been approved by Dean Ernest Walker, but although suitable space has been found, Institute Business Manager R. J. Spaeth denied the Coop's request to rent it to them, said Arenson. He added that "A mass appeal for a Co-op at Lewis presented by Lewis students might force Mr. Spaeth to change his decision."

Four new directors will be elected from nominations made by the present board of directors, and will take office on March 1. Also to be decided is whether or ont Arenson will continue as president. He is at present filling the unexpired term of Earl Mills, who resigned several months ago. The stockholders may elect a new president or vote to have Arenson continue in office until the end of the spring semester.

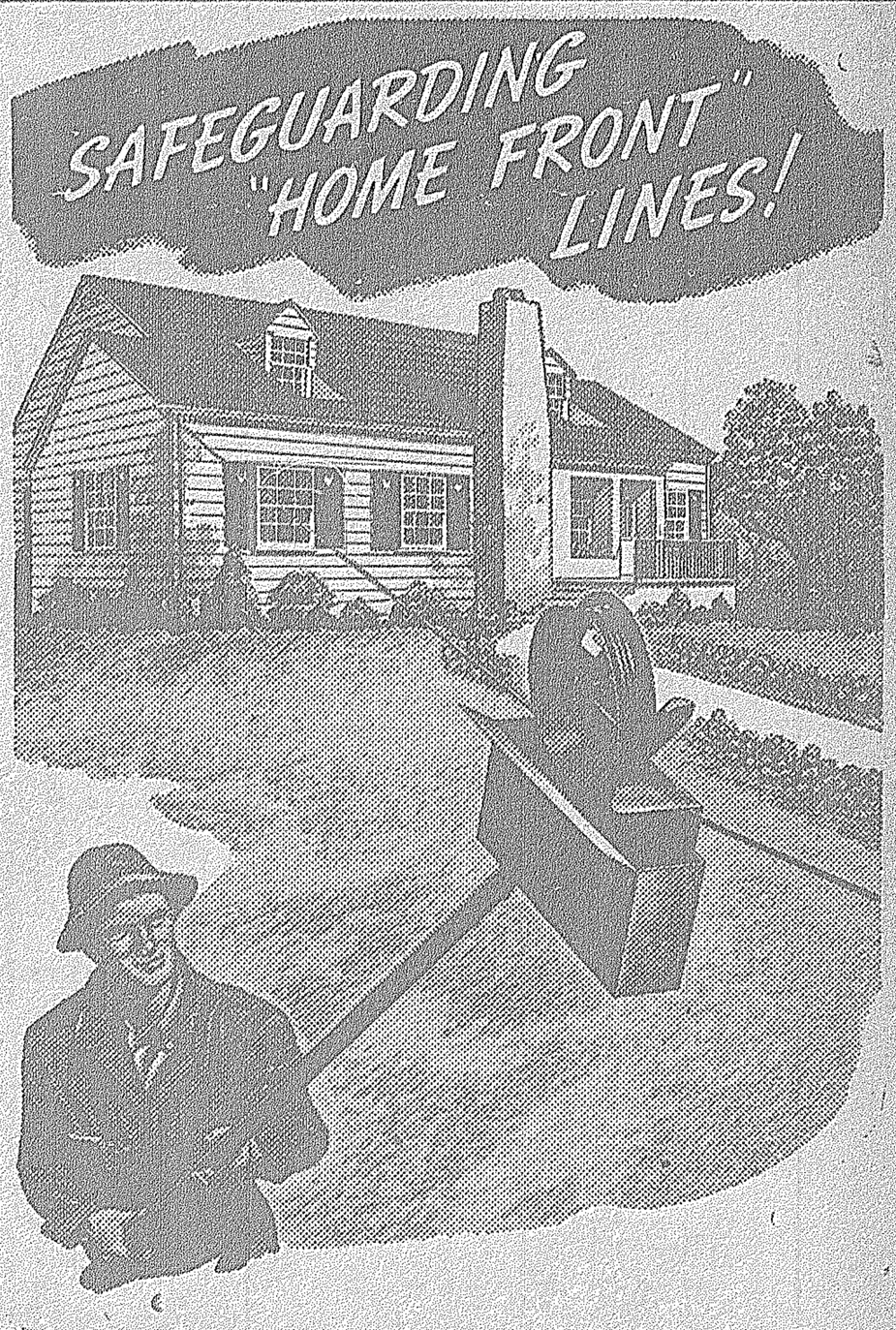
"Every stockholder, that is, anyone who has purchased a $2 share of stock in the Co-op, will be eligible to vote at the meeting. In order to increase his dividends, every stockholder should take advantage of his voting privilege", stated Arenson.

As Usual, Girls Are Late, Cry Students

"Girls, girls, where are the girls?" was the impatient cry of many a Techman last Wednesday at the opening of the Dance club meeting.

Since none of the fairer sex came on time, many men left, but those who waited until 6:30 p.m. were rewarded by the arrival of about 20 young women. The dancing then continued until nine o'clock.

Tom Dressler, president of the club, promised that the girls will be more prompt at future meetings.



TELEPHONE lines from poles to homes take a terrific beating from old man weather. And with wire for replacements drafted for military use, existing lines must be kept in good condition.

Asphalt coating applied in time keeps out moisture, chief trouble maker on telephone lines. Without lowering the wires, this trolley painter speeds the coating—helps recondition 50 lines a day.

This simple "stitch in time" helps keep communications open to the homes of America—and saves critical materials for vital war weapons.

War calls keep Long Distance lines busy . . . That's why your call may be delayed.

News of Fraternities and Sororities

Pi Kappa Phi Pledges 2; To Elect Officers

Pi Kappa Phi recently pledged Lawrence Sinion and Lee Strate.

Election of officers will take place Wednesday evening at 5:30 p.m. in 202 Main. Final plans for a senior farewell will be made at that time.

New House Obtained By Delta Tau Delta

The Delta Tau Delta fraternity has now moved into a new location at 3542 Princeton Avenue.

The pledge class elected its officers last Wednesday. Herbert Corten was elected president, Walter Linzing recording secretary and Arthur Strong treasurer.

After the election, the pledges held their first meeting and became fully organized.

Alpha Sigma Phi to Meet Wednesday

Alpha Sigma Phi brothers, Robert Oldenburger, Robert French, Mark Dunnell and Edward Allen, all men from Armour who are now in the ASTP, were here on furlough last week.

The next meeting of Alpha Sigma Phi will be held Wednesday to plan for a Senior Farewell, said Ronald Lind, president.

Alpha Sigs Aim For 26th Tournament Win

The Alpha Sigs have never lost an interfraternity basketball tournament during the past 25 years. Ronald Lind, president of the Alpha Sigma Phi social fraternity, has said that the fraternity expects to be champions again this year.

Sigma Alpha Mu Has New Year's Party

In a New Year's Eve celebration held at Allen Raff's home, 20 men of Sigma Alpha Mu and their dates greeted the New Year in an enthusiastic manner, they claim.

The party was entertained by the efforts of several talented musicians, but gastric desires were not left to chance either. A roast turkey dinner with all the fixings and an abundance of non-intoxicating drinks filled the bill.

The most popular pastime of the evening was dancing to the smooth music of Glenn Miller's and Kay Kyser's orchestras, all on recording.

15 Axe Pledges To Carry Axes

Fifteen men were pledged by Alpha Chi Sigma, national professional chemical fraternity last week.

Those pledged are Richard Skibbens, James Kordig, and Glenn Marsh, of the Lewis campus. Pledged from Armour are Richard R. Rasmussen, Marvin Scheunemann, James Oldshue, Robert Misch, Robert Young, A/S Edward McDowell, A/S Jack Mace, A/S David Weimer, A/S Donald Hedeen, A/S Louis Hagan and A/S Carl Leydig.

Richard Rasmussen was elected pledge chairman at a meeting Wednesday. The pledges also planned their offensive against the active members.

The civilian group of the pledges may be distinguished by the blue and yellow axes they are carrying around.

Eta Kappa Nu Will Initiate Six Jan. 22

Eta Kappa Nu, honorary electrical engineering fraternity, pledged six men at the meeting of December 23. Joseph Centa, Richard Kuba, Evan Madsen, Frank Novak, Bernard Steenson, and William Stewart are the men so honored. All but Novak are V-12 students. The men will be formally initiated at a banquet on January 22, at the Swedish Club of Chicago.

With the exception of Madsen, who is a senior electrical, all of the pledges are juniors. Madsen and Novak are members of the radio engineering honorary, Rho Epsilon.

Code Classes Still Open To Interested Students

Students interested in Morse code still have the opportunity to join the class now being conducted on the south campus, Dr. David P. Boder has revealed.

The methods of teaching are such that five to ten minutes of each class are devoted to alphabet drill according to new procedures and about one-half of the time is devoted to drill with IIT Training Forms. These forms are so designed that the beginner may start at any time.

A lesson for those who wish to pass a qualification examination at eight words per minute is also given during each class.

Wire Recorder Shown At Rho Epsilon Meeting

Marvin Camras, inventor of the wire recorder, was the featured speaker at the meeting of Rho Epsilon, honorary radio fraternity, held last Friday night.

Camras described and demonstrated his invention. He played recorded music and allowed members to record and play back their own voices. The recorder has received wide acclaim throughout the nation, and it is now being used to record the reactions of the men on bombing trips over Europe. Camras is a graduate member of Rho Epsilon.

During the meeting pledges were elected by the fraternity. Their names will be announced in the next issue of *Technology News*.

Seniors to Meet Friday To Discuss Stag, Dance

The seniors' stag, dance, and gift to the Institute will be among the matters of business to be discussed at this Friday's meeting of the graduating class, at 11:30 a.m., 305M.

Class President Cliff Oliver urged all February seniors to be present because of the importance of the topics to be discussed.

MILO WIESNER
RECREATION
823 W. 35th STREET
Yards 4322
20 BOWLING ALLEYS
10 BILLIARD TABLES

Jack: "Didn't she let you kiss her?"
Bob: "Oh heavens no. She's not that kind."
Jack: "She was to me."

V V V

He: "Say, whatever became of those old-fashioned girls who fainted when a boy would kiss them?"

She: "Huh? Whatever became of the old-fashioned boys who made them faint?"

V V V

This is the story of Sammy McGuire
Who ran through the town with his trousers on fire,
He went to the doctor's and fainted with fright
When the medico told him his end was in sight.

V V V

How is the bride to know who was the best man at her wedding when only her husband goes on the honeymoon?

V V V

"Have you heard how a bustle and a historical romance are alike?"

"No, how?"

"Both are fictitious tales, based on stern reality."

V V V

Wife to salesman husband: "Darling, I will always worry when you're away from me."

Hubby: "But angel, I'll be back before you know it."

Wifey: "That's what worries me."

She: "Would you like to see where I was operated on for appendix?"

He: "No, I hate hospitals."

V V V

"Where did you get that black eye, Corporal?"

"In the war."

"What war?"

"The boudoir."

V V V

A firey tempered business man wrote the following letter: "Sir my stenographer, being a lady cannot type what I think of you. I, being a gentleman, cannot say it. You, being neither, will understand what I mean."

V V V

Doctor (after examining patient): "I don't like the looks of your husband Mrs. Brown."

Mrs. Brown: "Neither do I but he's good to the children."

V V V

Her car stalled on the corner, and the traffic light changed red, yellow, green, red, green, etc. The polite policeman stepped up beside her car and said: "Whasa matter lady, aint we got any colors you like?"

V V V

Mrs. Brown: "How children's tastes do change."

Mrs. White: "Yes, when my two were small, Johnny loved soldiers and Mary was crazy about painted dolls."

That's all fellows,
Biss (Snuffy) Smith

"Climate and Terrain Do Not Stop American Engineers," Says Richardson in Illustrated Talk

"Six American Army tractors were rolled down a mountain on Attu, and all six were in working condition after hitting the bottom." Such was the testimonial to American engineering skill given by H. W. Richardson at the WSE assembly last Friday morning.

Richardson heard of the incident while traveling through the Alaskan region as a correspondent for "Engineering News Record." He related many stories of the difficulties of climate and terrain in setting up bases and airstrips on the Aleutian Islands.

Most of the slides, however, showed before and after scenes of work on the Alaskan Highway. Many of the pictures were beautiful as well as documentary. The improvements in the original trail and the contrast between temporary and permanent bridge structures were graphically depicted.

President Henry T. Heald introduced Mr. Richardson. Heald commented on the fact that many students were in the habit of leaving while assemblies were in progress. He requested the students to leave before the program started or to remain to the end.

Operators Club Elects Harry Peyser President

Harry Peyser, of the Armour operator staff, was elected president of the Operators Club at its charter meeting Tuesday, in the Visual Education's quarters at Lewis.

Also elected were Richard Flaskamp, vice-president; Stan Sourelis, secretary-treasurer; Robert Jacobson, chairman of policy committee, and Roland Roberts, social chairman.

Roberts revealed that a farewell dinner in honor of Harold Minkler, director of Visual Education at IIT, will be the first event held by the club.

Minkler has a commission in the navy and is to report Jan. 28.

Dr. Hobson Is Appointed As Committee Chairman

Dr. Jesse E. Hobson, chairman of the electrical department, has been appointed chairman of the national committee on arc furnace voltages for the American Institute of Electrical Engineers.

Hobson is also a member of the executive committee, and serves on the committee on impulse testing, the committee on basic sciences, and the committee on electro-chemistry and electro-metallurgy.

White Leaves IIT For Knox College

Dr. Frederick R. White, assistant professor of English has left IIT and has accepted an associate professorship at Knox College in Galesburg, Illinois.

Dr. White came to the Institute as an instructor in 1941. He received his B.A. degree from Oberlin College, Oberlin, Ohio. In 1943 he received his Ph.D. from the University of Michigan and in that year was made an assistant professor at IIT.

For the best girl friend—
DIAMOND ENGAGEMENT RINGS AND JEWELRY
Spies Brothers, Inc.
27 E. Monroe St.
Chicago, Ill.
Manufacturers of official I.I.T. Jewelry
Reliable Since 1878

AS I SEE IT

(Continued from Page 1)

fore, at the latest, the first few weeks of next semester, the results will never be known. An interested, hard working group can do it. Will it?

THE CAUSE—student carelessness; the effect—mice in the auditorium. Since mice don't mind eating the leftovers spilled from someone's lunch-bag, they have found a banquet hall. Now the maintenance department will have to find ways and means of exterminating the pests, a move which should be undertaken at once.

WITH THE APPEARANCE of "flunk" notices this week, it might be well to remind some that it is still a privilege to remain in college. It is a very short step, however, from college to the army. John Schommer and Dean Peebles have both flatly refused to ask for deferments for anyone whose average is below one point or a person who has not maintained a passing semester average. Needless to say, the navy students know it is a short trip to Great Lakes.

TEN MEN

(Continued from Page 1)

the questionnaires are filled out bepha Chi Sigma, professional chemical fraternity, and society editor of the Integral. He is also a member of the Western Society of Engineers and the AIChE.

Victor Graziano, a senior electrical, is the former president of Rho Epsilon, honorary radio engineering fraternity; secretary of Etta Kappa Nu, honorary electrical engineering fraternity; and the builder of IIT's frequency-modulation radio transmitter.

Earl R. Mills, a senior chemical engineer, is a member of the track team, honor board, glee club, Student Union Board of Control, Alpha Chi Sigma and a senior advisor.

Arnold J. Thompson, a/s, a senior mechanical, is the business manager of the Integral, and a member of Pi Tau Sigma, honorary mechanical engineering fraternity, and the Society for the Advancement of Management. He also won a freshman scholarship.

George Thyer, a senior mechanical, is secretary of Theta Xi, and a member of Pi Tau Sigma and the ASME. During the time he was in night school, he led his class scholastically.

Jesse L. Shearer, senior mechanical co-op student, is president of Pi Tau Sigma, a member of the Interfraternity Council and Triangle Fraternity.

Claus von Friedersdorff, a junior chemical, is an honor marshal, and a member of Alpha Chi Sigma and Pi Lambda Upsilon, honorary chemical engineering fraternity. He won a freshman scholarship and the Ekhart Scholarship and earns all of his school expenses.

Ronald Lind, a junior chemical, is vice-president of the ITSA, president of Alpha Sigma Phi, and a member of Alpha Chi Sigma and Pi Lambda Upsilon. He is also a cartoonist for *Technology News*.

Albert Roberts, a junior electrical, is a member of the basketball team, Eta Kappa Nu, Rho Epsilon, and Pi Kappa Phi. He is also an honor marshal.

John Schwemberger, a junior chemical, is president of Alpha Chi Sigma, a member of Pi Lambda Upsilon, the dance club and AIChE. He also won a freshman scholarship.

Home Economics Club to Hold First Meeting Friday

The Home Economics Club will hold its first meeting of this term on Friday at 12 noon in Room 501.

Donna Mansfield, president of the club, has invited all home economics majors to attend the meeting and join the group. A discussion of the functions of the club and the possibilities of increasing membership will be held.

COLLEGE NIGHT
Every ..Friday
EDDIE OLIVER
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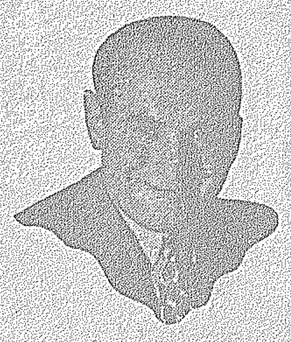
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