

TECHNOLOGY NEWS

Volume 31, No. 8

Z-143

ILLINOIS INSTITUTE OF TECHNOLOGY, CHICAGO, ILLINOIS

April 6, 1943

Midwest Power Conference Opens Thursday

M. Magidoff Guest Speaker

Russian woman Talks at school assembly Friday

Students of IIT are very fortunate in being able to hear Madam Nila Magidoff, at an assembly next Friday, April 9, at 10:00 a. m. Mme. Magidoff is the wife of NBC's Moscow correspondent. A city-wide reception will be held for her when she arrives on Sunday, April 4.

After a five-day stay as a guest of the city of Chicago, Mme. Magidoff will continue a speaking tour of Middle Western colleges and universities. She will visit Minnesota, Wisconsin, Iowa, and southern Illinois after leaving Chicago.

Mme. Magidoff is well able to describe the battle of Moscow, since she was an eye witness there for some time. She took an active part in the defense of the city during the blitz, but was obliged to come to America, since wives and children of American war correspondents must be evacuated.

While in Russia, Mme. Magidoff was very active in literary



Mme. Nila Magidoff

circles. She was a student of literature at the Moscow University. (See Magidoff on page 3)

Tech time table

Tuesday, April 6

5:00 p. m.—Orchestra in the auditorium

Wednesday, April 7

5:00—WSE in the Faculty Grill

5:30—All Technology News members, staff and managing board, in Tech News offices, Armour campus

Thursday, April 8

Midwest Power Conference Palmer House

Friday, April 9

Midwest Power Conference Palmer House

10:00 a. m.—General assembly in Armour auditorium.

5:00 p. m.—All School Social Committee in U2W.

Undergraduate women enlist as navy officers

According to a recent Naval bulletin, undergraduate women may enlist in the Navy as officer candidates in the V-9, Women's Reserve; or W-9, U.S. Coast Guard Reserve. The women who sign up for the program will be ordered to Officer Training School upon their graduation.

In order that the best selection may be obtained, colleges are requested to arrange a faculty committee to endorse those whose scholastic achievements, extra curricular activities, and personal qualifications recommend them as outstanding members of the senior class.

To enlist, the applicant must establish her citizenship and obtain a statement from the Registrar or Dean of the school, certifying that upon graduation at a specified date, the candidate will have the educational qualifications required.

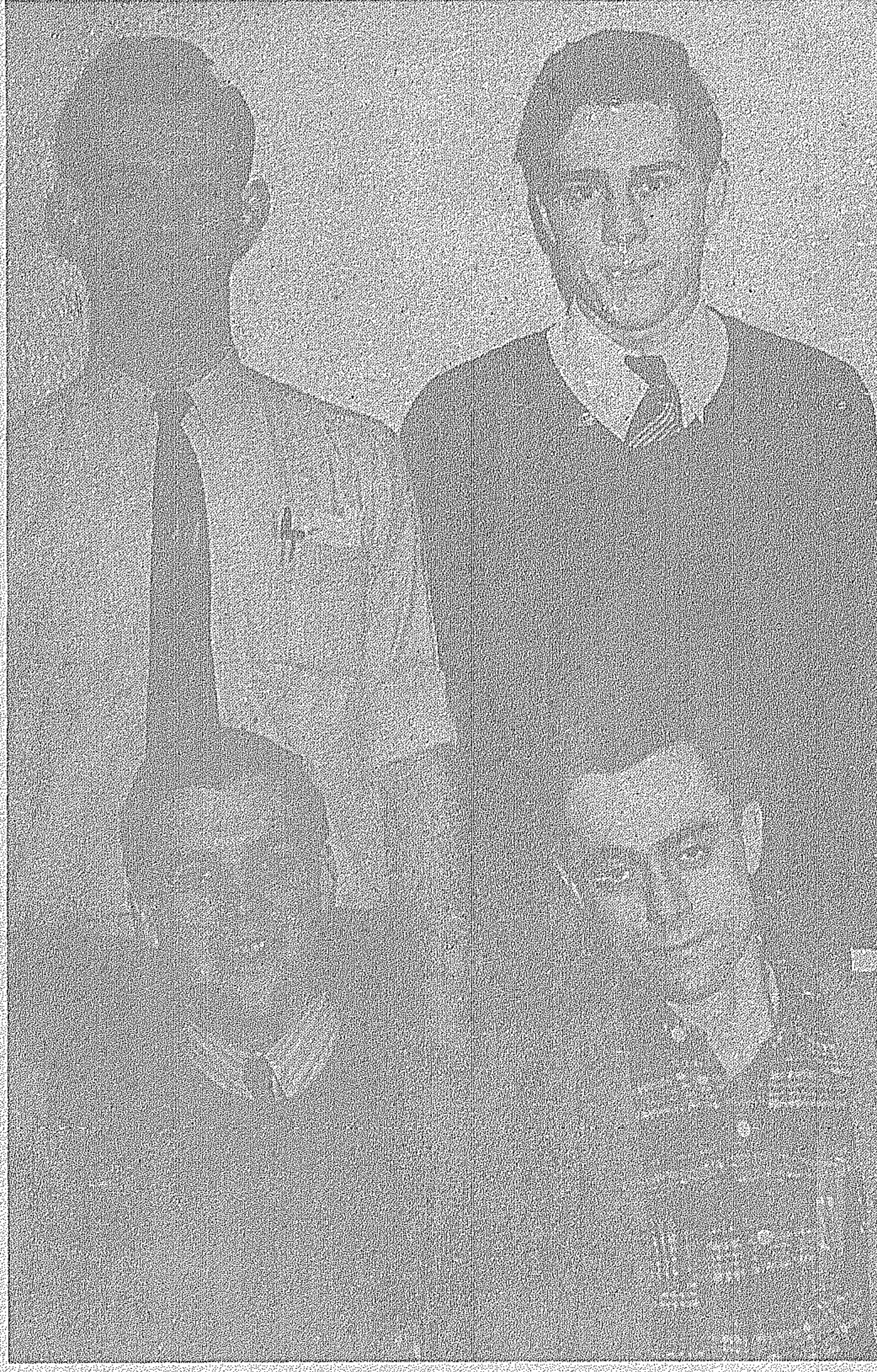
"The Drunkard" next endeavor of drama club

Miss Lou Meyers, director of the drama club at Armour, announces that a meeting of the club will be held Thursday, April 8, at 5:00 P. M. in U2W. All students who are interested are urged to attend this meeting. Its purpose is to obtain an idea of the talent, both dramatic and technical, which is available. An election of officers will also be held at this time.

The dramatists are planning to present in May a piece entitled "The Drunkard." This is an old-fashioned melodrama, and the audience will have ample opportunity to hiss the cruel villain, and cheer the hero and heroine. A novel seating arrangement will be used. The spectators will sit cabaret style, and cokes and popcorn will be served to them. In addition to the play, there will be singing by a barbershop quartet, and dancing by the Florida "girls." This will be an all-school production, and there is still a need for more entertainers.

SPECIAL MEETING
of all members of
TECHNOLOGY NEWS
this Wednesday, April 7
at 5:30 p. m.
in the NEWS offices

Junior Marshals



Top—Left to right: Clift Oliver, Elwood Koenig
Bottom—Left to right: Tim O'Leary, Nat Ratner

Juniors choose men to guide festivities

Every year at this time, the various departments select one of their number who is a junior as their representative in the planning and conducting of the Junior Week festivities. Although the present wartime situation prevents anything but the traditional class rush, Junior Marshals have nevertheless been chosen this year.

The distinction of being a Junior Marshal is an honor bestowed upon those men who have shown more than scholastic ability. The activities of these men can be seen to have extended deeply into those organizations which have sought to better student life on the campus. The members of this year's group indeed deserve the honor which has been conferred upon them.

Clift Oliver, associate sports editor of TECHNOLOGY NEWS and intramural head of the south side campus, has been chosen as the chemical engineering member. John Potten-

Marshals reveal schedule for Junior Week

President H. T. Heald has stated that the more brutal games of Junior Week will have to be eliminated this year. In consequence the Junior Marshals have planned a program for Friday and Saturday, May 7 and 8, which will provide everyone with a good time and eliminate the bruising battles of past years.

The year interdepartmental contests in track and softball for the entire school will held. The winner of the softball tournament will play the faculty.

On Friday the Glee Club and possibly the different fraternities will sing. Later on in the evening dancing to the tune of juke box music will be the order of the day. Entertainment on Saturday will include a skit presented by the secretaries of the south campus and the faculty. A tug of war is scheduled between the sophomores and freshmen. Other contests will be held in marble shooting, jacks, greased-pole climbing, (See Marshals on page 2)

Upperclassmen excused; attend certain sessions

The 1943 annual session of the Midwest Power Conference will be held on Thursday and Friday, April 8 and 9, at the Palmer house. This is the sixth one to be held since these conferences were



placed under the sponsorship of Illinois Tech. Since that time, these conventions have grown considerably, and are now attended by engineers and power men from most of the states east of the Rocky Mountains. At present, eight engineering societies and nine Midwestern universities co-operate with IIT in the operation of these conferences.

Professor Stanton Winston is director of the conference.

Dean Peebles has announced that juniors and seniors will be excused from classes to attend certain sessions of the conference. Mechanicals and electricals, wishing to attend, will be excused from their Thursday afternoon classes. Sessions to be held then will have as their topics, "Power Plant Practice," "Electrical Distribution," and "Industrial Power Plants." Senior civils and chemicals will be excused Thursday afternoon by arrangement with the heads of their respective departments.

On Friday morning, discussions will concern plant protection and plant maintenance. Afternoon meetings will take electrical distribution, diesel power, and fuels and combustion. No students will be excused from Friday classes, but

(See POWER on page 8)

100 apply for try at freshman awards

With the words scholarship, personality, and outside activity whirling about in their heads, almost 100 applicants gave notice that they intended to capture one of the Freshman Scholarship awards this April. Although these scholarships are worth \$300 each, the Freshman Scholarship Committee only expected a small number to register because of present draft conditions.

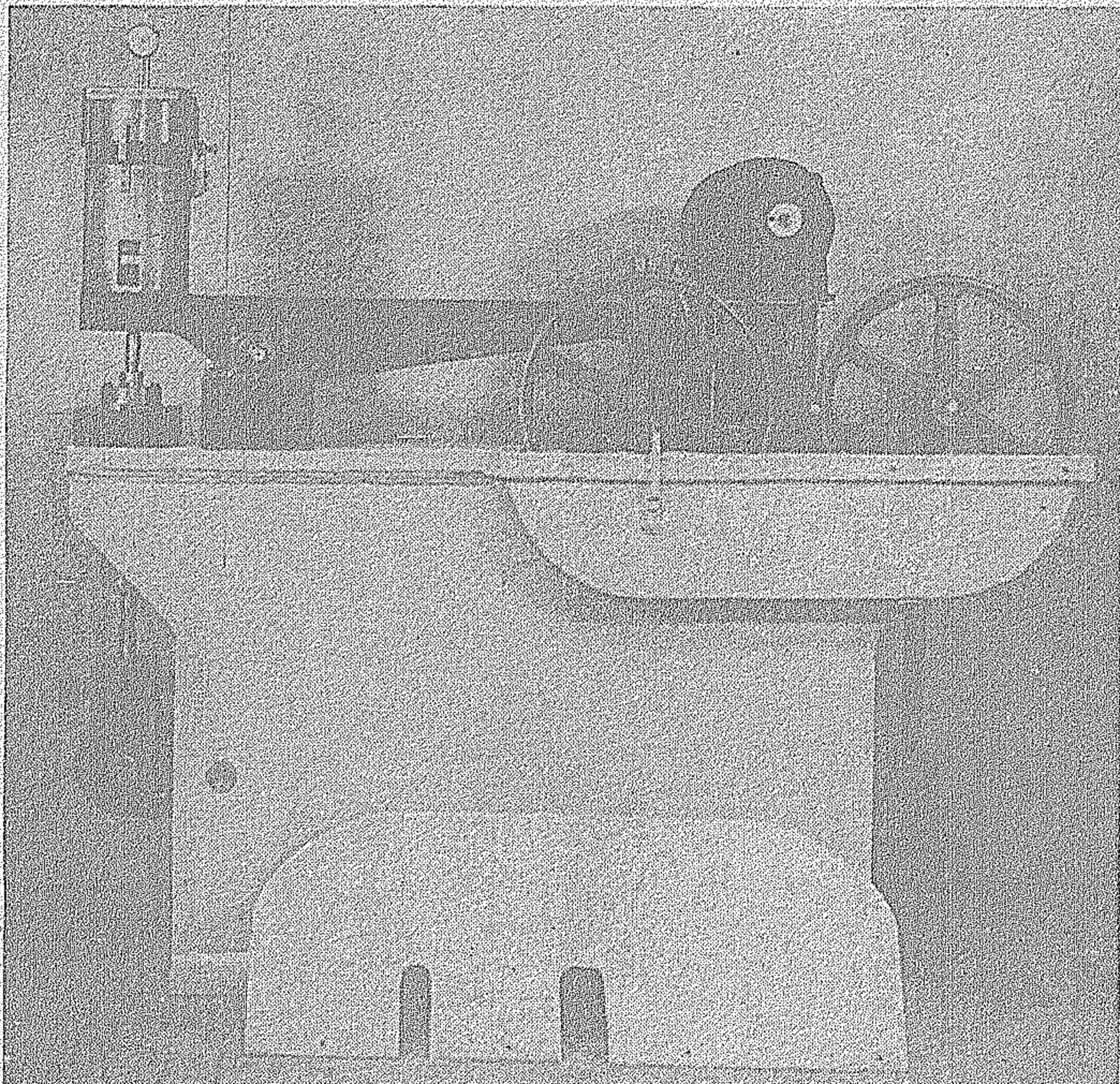
The examinations will be given April 17, 9:10-11:00 a.m. Subjects covered will be mathematics up to and including solid geometry and advanced algebra, physics, chemistry, and English.

LeVan Griffis tests strength of metals under stresses

Combined stresses have frequently been blamed for the failure of metals used in industry. Research on bi-axial fatigue, an important factor in many such breakdowns, was begun here in July, 1942 by Le Van Griffis, assistant professor of mechanics. The main purpose of his investigation was to obtain data on the fatigue strength of metals subjected to such combined stresses. Conditions of strain are obtained by subjecting thin-walled cylin-

drical specimens to fluctuating internal pressures in phase with a vibrating axial load. Several tentative tests already made with the new ratios indicate that as the ratio increases—longitudinal stresses in the numerator—the above curve shifts upward slightly. Valuable testing and calibration procedures have also been established.

Future work will include specimens with both longitudinal and circumferential welds. Types of material used will include cast iron, stainless steel,



Machine for stress analysis

drical specimens to fluctuating internal pressures in phase with a vibrating axial load.

The machine which is used to reproduce these stresses operates at 300 cycles per minute and was first described by Joseph Marin in a paper entitled "Strength of Steel Subjected to Bi-axial Fatigue Stresses." The cost of the machine, which is located in a laboratory of the Gas Institute, amounts to more than \$1,300.

Some difficulty has been experienced recently in obtaining well-machined test models, which cost about \$12 each for a good specimen. The former models were made of SAE 1020 killed steel fully annealed and shaped in a taper with a minimum thickness of .05 inches.

The graph obtained, when plotting the log of cycles vs. maximum applied stress is curved and does not differ radically from a graph obtained for uni-axial stress. This observation has been duplicated in the curve obtained for bi-axial stress using the new type test model, which has a uniform thickness of .05 inches for a given length with fillets at both ends of the bar.

These new results indicate that the fatigue strength is not influenced by the presence of a bi-axial state of stress; although tests made thus far have only included the case of equal longitudinal and circumferential stresses. It is planned in the future to vary the ratio of the stresses in eight proportions

from zero to infinity. Several

tentative tests already made with the new ratios indicate that as the ratio increases—longitudinal stresses in the numerator—the above curve shifts upward slightly. Valuable testing and calibration procedures have also been established. Future work will include specimens with both longitudinal and circumferential welds. Types of material used will include cast iron, stainless steel,

Maine High hears talk on engineering

Miss Katherine Judkins, educational councilor of Illinois and Mr. Harold L. Minkler, head of the new visual education department of the Engineering, Science, and Management War Training program, addressed the students of the Maine High School, Thursday, April 1.

Both Miss Judkins and Mr. Minkler stressed the importance of high school students preparing for engineering or science training while still in high school. Also they outlined the courses offered by IIT, and announced the scholarships available at the institute.

The Jr. Chemicals hereby issue a challenge to any department of any class to meet them in a chess match, five men to compete. Any department interested should see S. Chase of the Chemical Engineering department to arrange match.

New ordnance course started

A new ordnance course which is open to civil service employees and officers in the Army was inaugurated Monday, April 5, in the loop as a part of the war training program held there.

The courses are designed to supply trained men for Army Ordnance and the Sixth Service Command. Men who receive the training will be equipped to act as inspectors of high explosives in war plants.

The ordnance classes are being held at 333 N. Michigan Avenue, and those for the Sixth Service Command at the Civic Opera House.

War movies, skit at Home Ec. meeting

Two movies "Partners in Crime" and "Food-Weapon of Conquest" and a short dramatic skit was presented to faculty members and students of the Home Economics Department on Friday, March 26.

"Partners in Crime," an English production, compared synonymously, the actions of a larcenist and the shopper who purchases from the black market.

"Food-Weapon of Conquest" showed poignantly how valuable food is as a method of inflicting submission on either conquered peoples or withstanding foes. It was suggested that control of food is the German secret weapon of conquest and was shown that hunger is the compelling force in the establishment of the ancient institution of slavery.

The skit performed by Corinne Lense, Dolores Schild, and Viola Sievers depicted a contemporary scene of American home makers and was based on the fact that gaining knowledge of nutrition is just as patriotic as a more exhibitionary activity.

MAN OF THE WEEK

This week TECHNOLOGY NEWS pays tribute to one of the outstanding student members of the electrical engineering department. This "man of the week" is Victor Graziano, a junior who lives in Oak Park.

Vic's interest has been captured by the magic of radio for a long time. For a number of years he has been an amateur (ham) radio operator. During his high school days, he was a member of the Oak Park High School Radio Club. Vic became a member of the IIT Radio Club last year and at the same time was elected to Rho Epsilon, the honorary radio fraternity. At the beginning of last semester his efforts had proven him to be the man that should lead this fraternity, and he was subsequently elected as president of the organization.

Early this year Vic was pledged to Eta Kappa Nu, the honorary electrical engineering fraternity, and is now its recording secretary. He will also pilot the editing of the honorary fraternity pages of the 1944 Integral.

Victor's efforts in connection with the frequency modulation radio station which is being constructed at the west side campus have been outstanding. He has shouldered practically all of the responsibility of the task.

JUNIOR MARSHALS

(Continued from page 1) ger, a member of Rho Epsilon, the honorary radio fraternity, and the AIEE is the electrical engineering representative. Nat Ratner, a member of the track team, business manager of the Co-op Book Store, and a secretary of the junior class, is designated as the mechanical's representative. The fire-protects have found true merit in Elwood Koenig, a member of FPES, the Rifle Club, and secretary of Pi Kappa Sigma. Tim O'Leary, a member of the Honor Board, secretary of the AICE, and vice-president of the junior class, is the civil's member.



and it is through his efforts that a F-M station at IIT is actually materializing.

We congratulate this fellow for his untiring efforts for the school. We respect him for what he has been and is doing for IIT.

Lounge for Lewis subject of meeting

Meeting with the newly appointed student advisor, Arthur Wright, twenty Lewis students representing the student body, selected a chairman and discussed the possibility of a student lounge.

Bob Weiss and Eileen Robinson were elected co-chairmen. Immediately plans were laid and committees appointed.

A floor plan of the lounge, which will be on the balcony of the gymnasium, was made by Bob Ryan, and the decoration committee, consisting of Bob Ryan, Cheryl Benes, Helen Gordon, and Jack Burger, began selecting the furniture.

JUNIOR WEEK

(Continued from page 1) and pie eating. Again the evening will be completed with dancing.

It is evident from this program that everyone who attends will have a good time and that the traditional class rushes will not be too sorely missed.

Friday, May 7

9:00-10:30—Softball Tournament

- (1) Frosh vs. Sophs
- (2) Juniors vs. Seniors
- (3) Lewis vs. Co-ops

10:30-12:00—

Winner (1) vs. winner (3)
Faculty vs. winner (2)

12:30-2:00—Championship

- 2:00-5:00—Skits
- 2:00-2:20—Archs
 - 2:20-2:40—Chems
 - 2:40-3:00—Civils
 - 3:00-3:20—Co-ops
 - 3:20-3:40—Juicers
 - 3:40-4:00—Faculty
 - 4:00-4:20—Fire-Protects
 - 4:20-4:40—Mechs
 - 4:40-5:00—Secretaries

7:30-10:30—Glee Club—Fraternity Sing

10:30-12:00—Juke Box Serenade

Saturday, May 8

9:00-12:00—Track meet and Tug-o-war

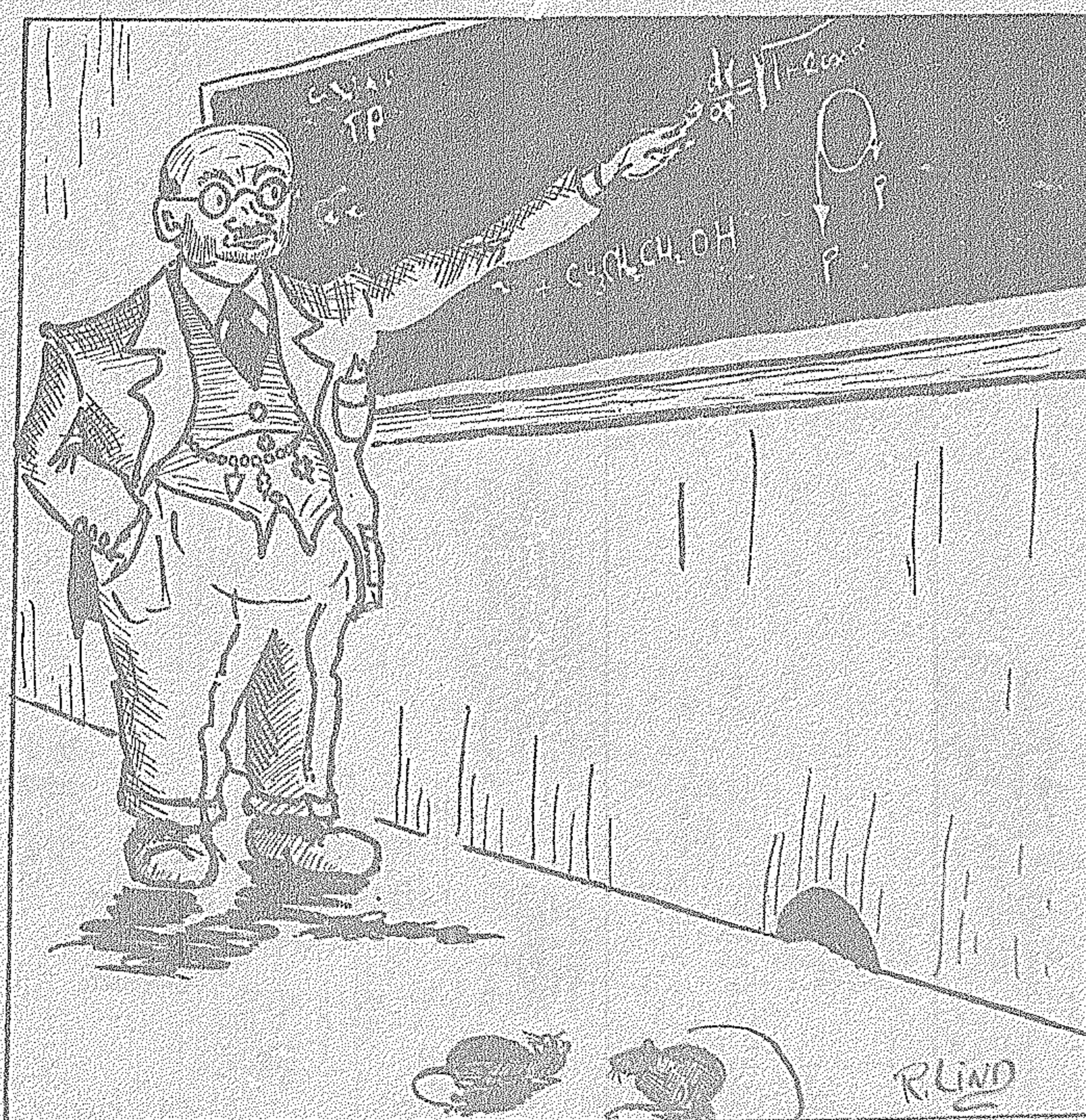
12:30-1:30—Greased pole contest

1:30-2:30—Pie eating contest

2:30—Supper—Obstacle race

8:30-1:00—Dancing

"Where's your 'belly brass' Bosco?"



• MAGIDOFF

(Continued from page 1)

versity, a writer on the staff of the Literary Gazette, and later an associate editor of the French-language newspaper, Journal de Moscou.

When she came to this country, she had difficulty, at first, in finding the way in which she could best contribute to war work. She found the answer when friends asked her to address a Russian War Relief meeting. At that time, she had been in this country only one month, and she admitted that the prospect of addressing a large audience was quite frightening, since her command of English was rather limited.

Courageously, she faced an audience of 20,000 people and nervously rushed through her 55-word message, only to find that in her excitement she had spoken into the wrong side of the microphone. She tried again, and received an overwhelming ovation from the spectators. So much interest was aroused that she was invited to speak in all parts of the country. To date, she had delivered about 175 addresses.

Mme. Magidoff is a tall, striking figure, daintily dressed. Russian women, she says, resort to powder, manicures, and lipstick, but consider rouge vulgar.

In the campaign to raise \$6,000,000 for medical and emergency aid to the Russian people, she has toured hundreds of cities, and appearing on the same platforms with former Ambassador Joseph E. Davies, Mme. Litvinoff, and many other notables. In some cities she has spoken three and four times, and has received many invitations to return to others.

"This is my war work," she said. "It is my contribution to the joint efforts of my own country and that of my husband—Russia, and America."

She no longer feels alone in America, Mme. Magidoff states, "I have met so many wonderful people—and not all of them are in the big towns. I think what most impresses me about Americans is their generosity, their kindness, and their friendliness."

Red Cross doubles last year's quota

Students of IIT are to be congratulated on the generous response they have made to the Red Cross campaign for funds. Even though the drive here is not yet over, we have already exceeded our quota, which was set at \$1,800; and money is still coming in.

The committee, composed of several of the faculty wives, and the chairman, Mrs. Ford, say "Thank you" to the student body for the splendid contributions they have made.

Dean Charles W. Gilkey, dean of Rockefeller Chapel of the University of Chicago, heads the drive for all educational institutions in the Chicago area. This comprises about 100 schools in

Senior Co-op gives paper at ASME meeting

Midwestern universities will send student delegates from local chapters of the American Society of Mechanical Engineers to a conference which will be held on April 12 and 13 at Northwestern Institute of Technology.

The IIT student chapter will be represented by George E. Crawford, a senior co-op who will present a paper on the "Economic Use of High Speed Steel in War Production." This topic is very timely, since high speed steel is not only a critical war material, but is also relatively scarce because of its high tungsten content.

Others who will attend the conference are the officers of the IIT branch Professor J. S. Kozacka, the honorary chairman of the chapter, and a number of student members. The dean has agreed that students who attend and register at the conference, will be excused from classes.

Professor Yellott, as chairman of the committee on Relations with Colleges for the ASME, will represent the society at the conference.

Drafting courses set up in war plants

A new method for meeting the shortage of technically trained personnel has been adopted by two Chicago industries; the American Phenolic Corporation, and the Victor Adding Machine Company.

These companies are allowing the government to help them solve their problems—and in the process some of their war workers, already employed full-time, are receiving training for more advanced jobs. The workers are being paid for taking the course.

Under the sponsorship of Illinois Institute of Technology, government war training classes have been set up in the plants of both firms. Both sets of classes are in drafting.

The company employees admitted to the classes are being paid overtime salaries while they attend school. The "students" go to class two evenings a week for a period of 16 weeks. This is in addition to their regular jobs at the plants.

Neither the companies nor the employees pay tuition for the course. Illinois Tech gives the instruction free of charge through the Engineering, Science, and Management War Training program of the U. S. Office of Education. Recognizing the urgent need for skilled technicians, the Office of Education authorizes and pays for the training.

Cook, Page and southern Lake counties. Dean Gilkey said that on the basis of our quota, we have surpassed all of the other institutions under his supervision.

Chemical Engineering staff finds research integral part of present work

H. McCormack chairman of chemical dept.

This week TECHNOLOGY NEWS is featuring the chemical engineering department. Staffed by three professors, three associates, two full time instructors and five graduate assistants, this department is doing outstanding work in its field.

Professor Harry McCormack is the chairman of this department. Mr. McCormack is at present directing work on three research projects which are of vital wartime interest. The first is concerned with the improvement of reclaimed rubber,



Harry McCormack

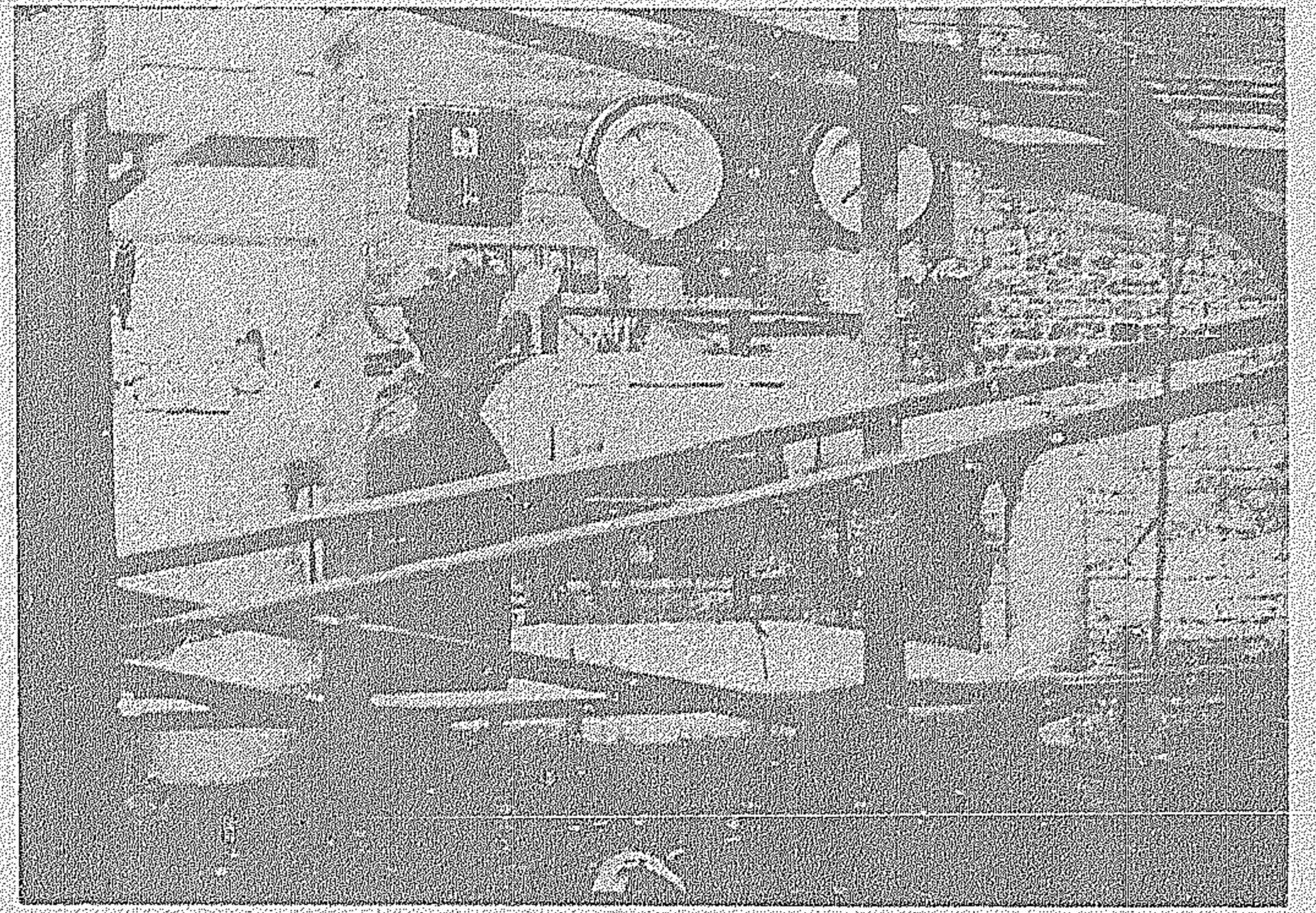
a project on which Mr. Bernard Chertow is working.

Mr. Robert Kirk is studying the possibilities of producing tire recapping materials from non-essential commodities. Substantial progress has been made in this direction. Professor McCormack stated that the department would consider itself successful if it produced recaps that would stand up satisfactorily under 2,000 miles of wear.

The third project has as its subject the dehydration of food products. Mr. Bernet Swanson is expending his efforts on this undertaking. The Institute has what is considered the best dehydrating equipment in the entire country.

Dr. Vasili I. Komarewsky, Russian born chemical engineering professor, is doing extensive work on the subject of catalysis. At the present time he is experimenting with the development of synthetic rubber. His work in this field has received nation wide attention.

Dr. Robert C. Kintner has been at IIT since 1937. He supervises the publication of papers written by members of IIT's faculty, as well as any of the papers issued by the research division. These are distributed to the libraries of the engineering college, college deans, and prominent men all over the country. He conducts several classes during the day and evening and also supervises the work of students who are



Swanson experimenting with a constant temperature drier.

studying for their advanced degrees.

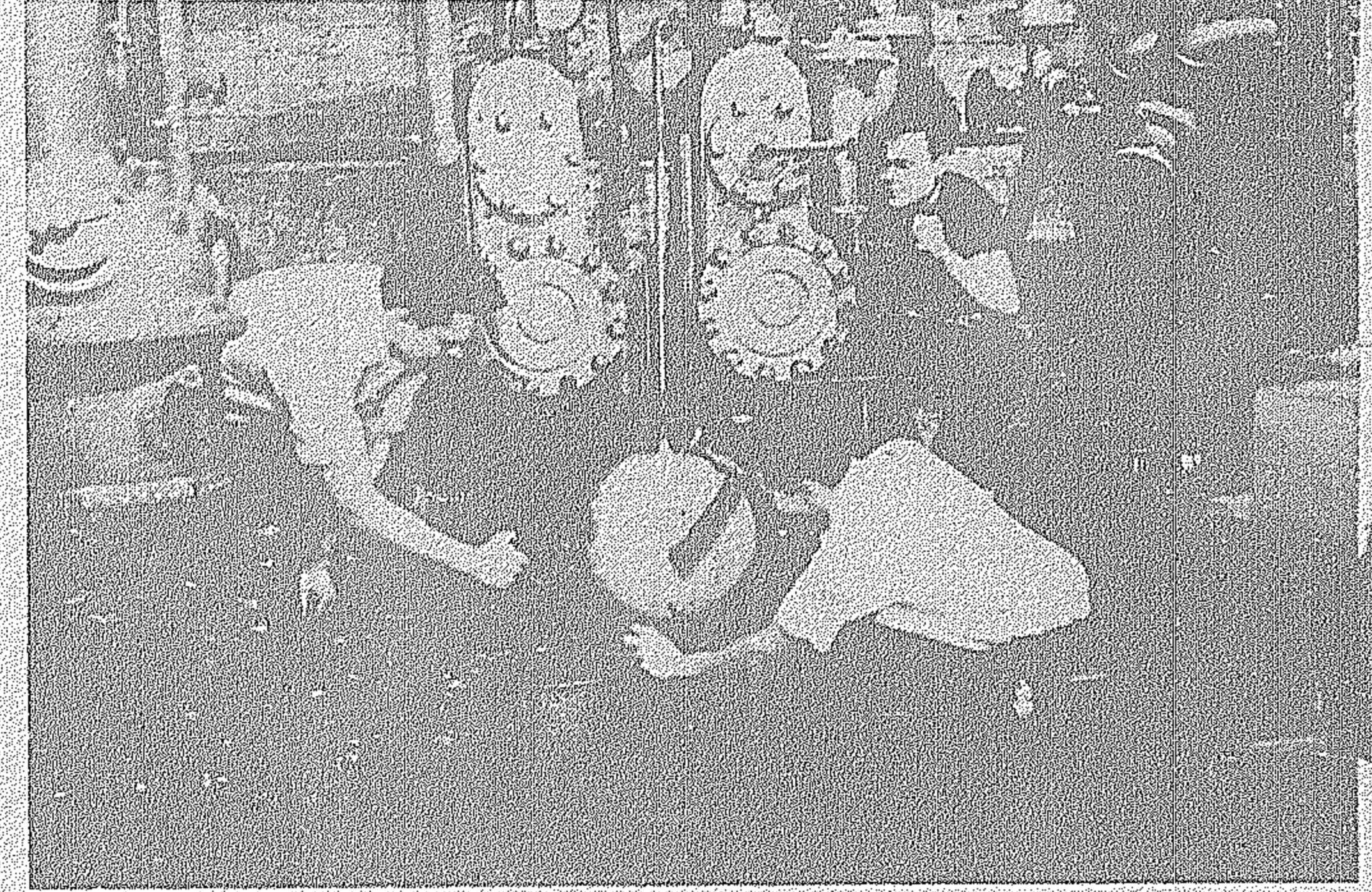
Professor Kintner is also chairman of the local section committee of the Society for the Promotion of Engineering Education, of which President H. T. Heald is national chairman.

Dr. Ralph C. Peck, is in charge of the extensive work now being conducted on problems associated with the flow of heat. The first problem is the study of heat transfer coefficients for condensing or-

Peck and Mr. Bromley have undertaken.

The effect of non-condensable gases of condenser design is the subject of Mr. H. Imatomi's research. Mr. W. Muller is investigating the effect of vapor velocity on condenser design.

The application of diffusion equations to the distillation of packed columns is being developed by Robert W. Rasmussen, while Mr. Freyley is working the application of the same equations to distillation on a



Mills and Humphreys operating double-effect evaporator. Other student is a willing volunteer.

ganic vapors on horizontal pipes. Mr. LeRoy Bromley has charge of this phase. The study of the effect of liquid turbulence on heat transfer coefficients on vertical tubes is the project which both Mr.

plate column.

The Precision Scientific Company, a Chicago firm which builds laboratory equipment, has recently given the chemical engineering department a gift of \$2,000 worth of high grade and rather expensive apparatus.

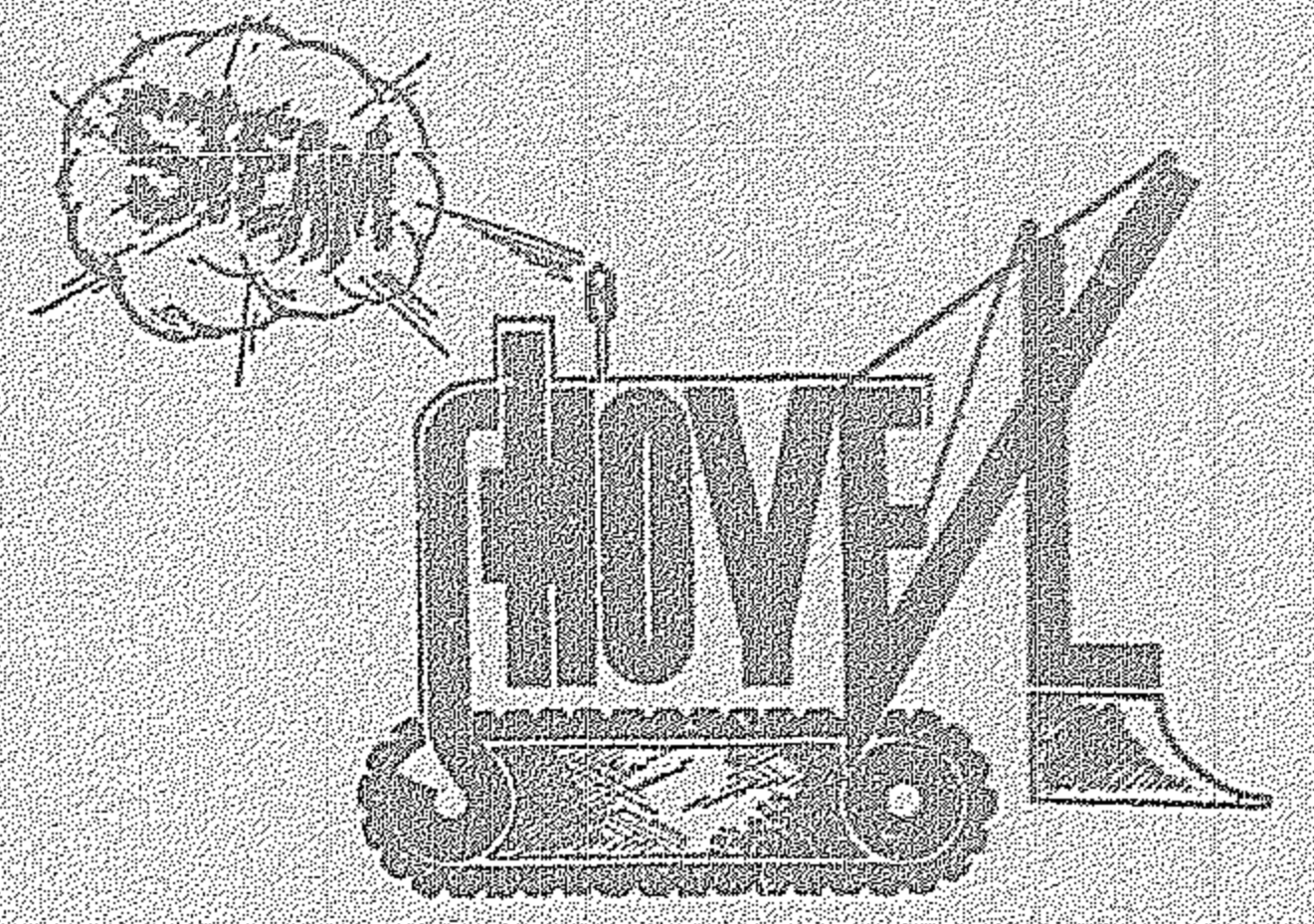
We take our hats off to the members of the department for their contributions to the development of the field of chemical engineering.

Lewis gets the call on the best songs of all

Musical clubs of IIT have a full schedule for the month of April. On the sixth, a concert will be given at the Power Conference banquet in the Palmer House. Another item is the annual assembly program at Tilden Tech, on the sixteenth. At the end of the month, a song-fest will entertain the students at Lewis.



Aw Shaw



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How Come?

Let's face the music. Do we want it or don't we? It's the F-M set proposed at the last ITSA meeting we're talking about. We heard the trial set in operation, and we liked it.

Other students we talked to liked it.

Why, then, is it without a sponsor?

One ITSA member was against it. One member, by virtue of his position and ability to wield sarcasm, turned the proposal into a ridicule; first suggesting that only one person would be the benefactor, then insinuating that since none of the organizations present were willing to incur the cost, thirty dollars, the set was unwanted.

Perhaps thirty dollars doesn't sound like an enormous outlay, and for the returns it would bring, it isn't. However, thirty dollars to most of the student organizations is a major portion of their capital, and it would be hardly fair to ask any one organization to foot the bill when the entire student body would derive the benefits.

That F-M is the perfect solution to the problem of lunchroom music is unquestioned. It's high fidelity, lack of irritating or distracting commercials, and consistent presentation of good music cannot be rivaled by either the radio or the phonograph.

The necessary supplementary equipment is already installed. The bore-some but time-consuming job of record changing would be eliminated, as well as the cost of maintaining an up-to-date supply of records. This cost alone would pay for the set in two years. In addition to solving the lunchroom problem, the set could be used at banquets, for bringing music into the lounge, the auditorium, and the faculty grill.

The only factor prohibiting the purchase appears to be the initial outlay of thirty dollars. Why not let the representatives feel the students' pulse this coming week. If the students want it—you know who should pay for it.

How about it ITSA?

The May issue of the Illinois Tech Engineer and Alumnus will come out May 1 instead of May 15, due to the fact that the school year ends early.



COOPSCOOP

Edward Cygan - George Buess

The "Muscle Twins" Kurt Voderberg and Oscar Hunstiger, 5A Co-Ops, are trying to get to the head of their class. It seems as though their slide rules and note books have already gotten there, for frequently they end up on the professor's desk.

* * *

Did you know that we have a budding cinema within the walls of Tech? Why certainly. Prof. Michaelis spent last Thursday afternoon taking Time and Motion movies of his prodigies.

Cast:

Director—Prof. Peter "Darrol" Michaelis

Actors—Shearer, Van Santen, Apitz, Osman, Snyder, Kennedy and Goldberger

Cameramen — Dunsheath, Mueller, Cameron.

Plot—Bolt and Washer Assembly With Student-constructed Jigs.

* * *

Attention Pi Tau Sigma pledges. When approaching Jim Barnabee or H. R. Johnson 5A Co-ops for their signatures be sure they are awake. The pledge who woke them last Wednesday at 12:01 A.M. knows better—now.

* * *

Among the "hoppers" last Saturday night at the Hockey Hop was a large delegation of 3-A Co-ops. Some of the delegation were: Puchalski, Buess, Nord, Keyes, King, Backlund, Neidel, Hood, and Rybicki. Marc "Dundee" Heidman would have been there had the milk train been on schedule.

LOOK ALIKES

Chuck Phelan—Face on the Barroom Floor

Bert Anderson—Zdenek Lansky—A Certain Tool Design Professor

Martin Kinnavy—Errol Flynn

"Chesty" Kostrzewa—Michael Mouse

Norm Addie and Tom Costello—

Frankenstein Meet the Wolf Man

V

PROBABLE FUTURE OCCUPATION:

Russ Apitz and Herb Otto—Hydraulics Engineer in Charge of a Tap Room.

Jack Brown—Chief Testing Engineer of Victor Bed Spring Co.

John Excell and Ed Lindberg—Sanitary Engineers in Men's Rest Rooms.

"Jolly Joe" Cummins—Professor of Tool Design.

Frank Mikel—Professor of Time and Motion Study.

Wendall Burriss—Custodian of the Whirling Critical.

Stan Witmer—Model for Men's Underwear.

"Wild" Bill Fidellke—Engineer in Charge of Lip Rouge Tests.

Johnson Osman—Slush Pump Engineer.

April 1 was the day for the M.E. 230 exam. Approximately 100 2-A's and 3-A's had gathered in Room 305M intent upon displaying their metallurgical knowledge. The test was handed and everything was proceeding according to plan. Dr. McCauly thereupon decided that since it was April Fool's day it was a good day for baseball. So instead of a brainracking exam the 2-A's played the 3-A's with Dr. McCauly officiating as umpire.

The Bard Wails

To many people, the task of writing a column devoted to campus activities seems to be a simple one. I would concur in that belief were it not for the fact that the content of the column must be such as to appeal to the cynics who bother to read it. Writing casually, with little care for the "name-value" of the story, and expounding upon stray bits of news matter would, then, indeed be a pleasure. As it is, the trash one must print concerns such petty trifles as "Joe's got a new girl," "Moe was necking in the lounge" and so on. Glory be! What a sorry burden that I must carry!

Shades of Gypsy Rose

Herman "Queenie" Mirochick displayed his artistic talent when he acted out the "strip polka" for his fellow T. D. students in 501 Main, last Monday. . . . Paul Kerby claims he has discovered the "universal solvent." He made up a solution and left it in a beaker between lab periods. Upon returning, he could find no trace of the aforementioned beaker. He then surmised that the solution was the "universal solvent." . . . The Cicco Wizards had a "Jug-a-Lug" practice session Monday night in preparation for their encounter with the powerful senior mech aggregation last Friday night. Results of this epic struggle are not known but will be published in the next issue. . . . Tommy Paulsen is the latest one to discover that "wine, women, and song" does not mix with athletics.

The Wolf Pack

John Reisenweber, Michel Coccia, and Bob Weidenmuller were going great guns in a bit of "wolfing" with two secretaries from the nearby Huber & Huber Trucking Co. The three boys, standing on the front pavillion of the Alpha Sig house, had their amorous intentions dampened somewhat when several playful pledges doused them with a bucket of water from the second floor window. . . . Claude, "the Terrible Swede," Anderson, 160 pound intramural wrestling champ, doesn't like the moniker. He's rather be addressed as "Angel" or "Baby."

The Power Conference, to be held this week, will be well attended. The latest report is that the Rialto has a new stage-show. Pubs and taverns in the vicinity of the Palmer house are anticipating a large influx of student trade. Power does that, you know! . . . Simple people are always happy. Joyful Don Johnson upon viewing, in the April Fool issue of TECH NEWS, the picture of the toppling smoke-stack, asked, "When did that happen?"

Ho-hum, it's getting late. About time to close this driveling account. Thanks to those tolerant few who have bothered to read this far. Aufwieder sehen.

The Bard

POME

Windy day
Stockyards slay
Armour students
Faint away.
By Ken Epstein

MAIL CALL

By Pete Minwegan

In introducing this new column to the students we hope to keep them informed of the activities of our fellow students who have left our midst in answer to the call to arms. In this way we will keep in contact with many of the former Tech students, and we are sure that they will have adventures to tell that we will all be interested in.

Today we have a letter from a fellow student Paul Williamson, 4-A co-op. Paul entered the armed services as a meteorological student and here is what Paul has to say.

Remember letters and pictures of all service men . . . let us know how our Tech men are doing!

"Hi fellows,

I start Monday on my eight months' training as a meteorologist, my basic training is complete, but I still have two hours of physical training per day as well as drill. I'm living in the "Pantlind" Hotel in a big room with a private bath. We have a good, big, study table, lights, and plenty of room to put our belongings. Our school here takes up several blocks and occupies the civic auditorium, the fine arts building, and several other of the city's prize buildings.

Rumor has it that the civilians are very hospitable, and we cadets are about the only men in uniform within a forty mile radius.

Our schooling will be strictly on a mass production basis, but will be very thorough, if what the class ahead says is true. I've only been in one class room, but I suppose it's typical. First—it seats about a thousand men and will probably be filled. There are long tables placed from side to side, and above are several tiers of fluorescent lights. At frequent intervals around the sides, blackboards are placed with (I suppose) an instructor at each during a lecture. The main prof stands on a stage up in front and speaks through a P.A. system. He also has a blackboard.

The instructors circulate among the students to answer questions and also put the profs information on the side blackboards. An added duty of these boys (usually shavetails) is to detect men who are sleeping. We were informed that a cadet falls asleep but twice in class—after that he is a private.

The math and thermo I got at Armour are going to stand me in good stead here, we had about a two weeks review of arith., alg., trig., calc., and vector analysis. It all came fairly easy to me although vector analysis is entirely new, and I'll have to put some extra time in on it.

Though our schedule permits but one free hour from 8 to 9 p.m. during the week, we'll have a good chance to relax after the weekends. All men in uniform are invited to the U.S.O. here, which is something new for us. At Boca Raton, cadets were forbidden to enter them by order of the commanding officer.

Paul."

Other Campuses

William A. Nash

Methods of teaching visual perception developed by an Ohio State University professor of psychology are now being used by the Navy to train future instructors to recognize approaching aircraft or ships faster. He developed the process by studying several "mental wizards" and adapting some of their methods into a form that his own students could use. With the start of the war, he modified these methods into a form usable by the armed forces.

The men's debating team of Wheaton College covered twelve different states on a recent thirteen hundred and fifty mile tour. They returned undefeated. Their question was "Resolved: That the United Nations should form a permanent federal union."

Twenty-four co-eds at the University of Chicago are learning the art of jiu-jitsu, some because "it's a handy thing to know" and others because they plan to join the WAAC's or the WAVES.

Wood-chopping contests are helping Cornell university professors keep the home fires burning and themselves in good physical condition. Each week-end, 66 anthropologists, botanists, chemists, economists, and mathematicians head for university woodlots as volunteer participants in a statewide fuel and forest conservation program. It has been estimated that their efforts may aggregate the heating equivalent of 60 tons of anthracite coal.

"The war," according to S. C. Lind of the University of Minnesota Institute of Technology, "has exposed America's shameful neglect of our national education system. We have become a white-collar nation too rapidly. Those who ought to be ready for quick training do not have the foundation in elementary mathematics and physics, even arithmetic."

Who's Who for 1942-43 lists 31,692 men and women noted in American life. Of these, 22,302 are college graduates and 5,622 are member of Phi Beta Kappa.

Names and Notes

By Doris Meller

John J. Schommer, director of athletics, while still a high school boy, helped to beat the Techawks in a basketball game. As captain and star of the Central Y.M.C.A. team of 1903, Schommer and his mates met Armour's team on the basketball court and defeated them. . . . Schommer was high point man.

Bob Stewart is a man that's proud of his ancestry. He has traced his Scotch lineage back to the old Clan and proudly displays his heritage by wearing ties of the Stewart tartan plaid.

President Henry T. Heald once obtained a job by answering a classified ad. It was in his first year as a faculty member at Illinois Tech. As the year was drawing to a close, he was making plans for a summer away from the campus and he chanced to read, one morning, a classified ad for a consulting civil engineer for three months . . . that was just what the president wanted, so he answered the ad and got the job.

Jack Soderberg, 4A co-op, went to the West Coast four times in four weeks during the co-op work term. He was observing brake operations on the Pullman for the American Steel Foundries.

Maximo Robert Langer, born in Buenos Aires, Argentina, came to this country in 1927. When he was born, his parents wanted to call him Max, but when they took him to the Registry of Birth, the government decided the name didn't sound Spanish enough so they changed it to Maximo.

Robert Oaks, assistant to the director of the Research Foundation, was given an engraved cigarette case and lighter by Paul Whiteman in appreciation of an article written by Mr. Oaks when he was editor of the Fredonia, New York, paper.

Earl Lichten, who works at the Rosenwald Museum in his spare time was recently assigned to the job of running the elaborate model railroad system there. Earl vows that if the darling little children who visit the museum don't stop pushing the trains off the tracks, he's going to pull a Lucretia Borgia and start giving away poisoned candy.

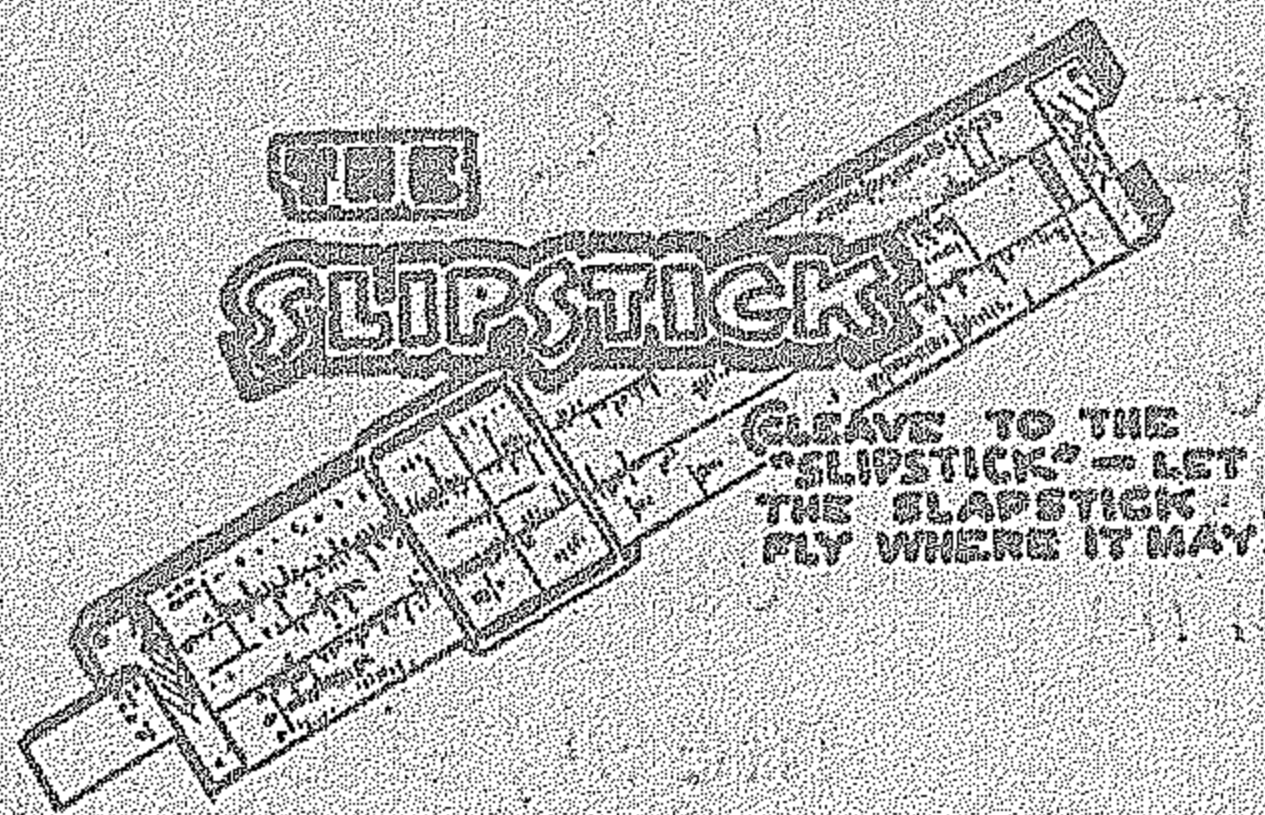
Truth and Honor

In the April issue of the Readers' Digest there appears a condensed biography of Thomas Jefferson written by Donald Cullross Peattie. Among Jefferson's achievements is listed his establishment of the University of Virginia, which emphasized a Useful Arts curriculum. One sentence stands out particularly—"Students were delighted when he instituted the Honor System."

So, even back in Jefferson's time, college students saw the advantages of such a system. Today, many schools follow a similar code of honor and trust. Among the most prominent are the University of Michigan, Antioch College in Ohio, John Hopkins University, and the service schools. Illinois Tech is gradually taking its place in this roll of honor, dependent solely on the personal integrity of every student.

Part of the purpose of our system is to eliminate disorderly conduct as well as cheating. The approaching Junior Week and the period preceding will be times of tension between classes. This friendly rivalry is not to be construed as an opportunity to commit wholesale mayhem. Both President Heald and Dean Peebles have expressed their desire that the hazing be kept to a minimum. Scores of upperclassmen, who have suffered the injuries of past years, also feel that these things should not happen again.

Although the school would receive poor publicity from such hell-raising, this is not the major reason for cutting out the horseplay. The damage to property and human bodies far overshadows and publicity. You're on your honor.
by Earl Mills



I feel sorry for the poor little kids this year. Instead of hunting colored eggs they probably will have to go hunting around for point coupons. I thought maybe we could substitute golf balls and sort of paint them up a bit but it seems they too are a bit scarce. Speaking of golf, I can't putter around here all-day—got to get a SLIPstick to press!

V V V

"You can't come in this house," said the wife, "you're under the influence of alcohol." "Shay," the inebriate answered, "I'm not so much under the influence of alcohol as some thinkle peep I am."

V V V

A girl at a bar has to be careful that a set-up doesn't make her a pushover.

V V V

Captain: "The man who sneaked out of barracks last night and met a girl in the woods will step forward—COMPANY HALT!"

V V V

Mother to daughter: "I don't want you to marry. I've seen the folly of it."

Daughter: "But mother, I want to see the folly of it, too!"

V V V

Grandpa in a speedy car,
Pushed the throttle down too far;
Twinkle, twinkle, little star,
Services by G.A.R.

V V V

Isn't it the truth!

In the old days, when a fellow told a girl a naughty story, she blushed at it. Nowadays, she memorizes it.

V V V

If every boy in the United States could read every girl's mind, the gasoline consumption would drop off fifty per cent.

V V V

Dedicated to the Juicers!

Serious young man (after talking at length): "Yes, we certainly owe a lot to inventions. For instance, what would we do without electricity?"

Extremely bored femme: "Neck."

V V V

Want ad: For trade—one I.E.'s study lamp for good bed. Am transferring from Engineering to Arts.

V V V

It's True!

They say that Dartmouth college has a statue of the famous Revolutionary soldier, General Howe. It's hidden in the deep, dark interior of the library—and when the Dartmouth boys have their girls come up for the weekend, they take them to the library and show them Howe.

V V V

A gentleman from Oklahoma was riding an airplane for the first time. At Phoenix, Arizona, the plane made a beautiful landing, and immediately a little red wagon rushed up to refuel it. Next stop was Fort Worth, and again a little red wagon rushed up. Same thing in Nashville. Up dashes a little red gasoline wagon, and the plane is off again. Another passenger turned to the gentleman from Oklahoma and observed, "These planes certainly make wonderful time." The Oklahoman drawled, "That little red wagon ain't doing bad either."

V V V

Pete Fisher "Min" Minwegan.

Techawk nine opens the season with Lake Forest Saturday

Fourteen-game schedule billed

This Saturday, April 10, will see the Techawks' inaugural of their third season under the coaching of Bernard "Sonny" Weissman. They will journey to the Lake Forest Red Birds in a game that should produce plenty of fireworks.

In this game the Techawks will go all out in an attempt to avenge last year's 3-2 defeat at the hands of the same team in the opener. All three of the Red Bird runs were unearned on this occasion and the Tech team is still smarting from this defeat.

Coach Weissman let the axe fall the latter part of last week and the one time squad of fifty men now numbers but eighteen. Of this number, seven are infielders, five are outfielders, and six are batterymen.



Danny "Smooth" O'Connell

Infielders kept were Ogden Clemens, Henry Pye, Norm Schmitz, Bob Lichtman, Vince Haughey, Jack Byrne, and Ralph Johnson. The first four named are probable starters for the Red Bird game. In the outfield are Warren Furst, Tom Contes, Mike Gleason, Casey Puchalski, and Ernie Krause, with the first three spots going to first three mentioned. The pitching will be handled by Al Dambros, Jim Oldshue, Danny O'Connell, and Ray Gavin, with Martin Fanz and Dick Melgard doing the receiving. The battery for the first game will probably be Dambros and Melgard.

At the present time fourteen games have been tentatively scheduled with several others pending. Of the fourteen, five games will be played on Tech's home grounds, Ogden Field. All of these games will start at 4:00 p.m.

1943 SEASON'S SCHEDULE

- April 10—Lake Forest College (There)
- April 13—University of Chicago (There)
- April 16—Concordia College (Here)
- April 20—University of Chicago (There)
- April 23—Navy of U. of C. (Here)
- April 28—Navy Pier (Here)
- May 1—Concordia College (There)
- May 2—Naval Training Station (There) (87th and Anthony)
- May 5—Lake Forest College (Here)
- May 8—Navy Pier (There)
- May 9—Joliet Penitentiary (There)
- May 11—Wheaton College (Here)
- May 13—Naval Training Station (Here) (87th and Anthony)
- May 15—Navy of U. of C. (There)

Frosh on first



Two promising freshmen are caught watching for a close play at first. Waiting for the ball is Bob Lichtman, a firstbaseman and a new find of Coach Sonny Weissman. Coaching the runner is Hank Pye, infielder from Leo High School.

"TECH HAWK TALK"

by BACKAS

With talk of the Navy and Army sending students to Illinois Tech, there has been some speculation as to what type of athletic activities they will participate in. The Navy has given its sanctions to its sailors participating in varsity sports providing they can "spare the time." The Army has taken a definite stand against varsity sports but they are for an intensified intramural program. Who knows but that Illinois Tech may get some real sports material from the Navy.

As yet nothing has been heard from the faculty in answer to last week's challenge to a baseball game. Is it that they have cold feet or maybe the sport is just a little too tough for them. On the other hand that "gentleman from the south," Professor Sammie Bibb is preparing a faculty golf team that is challenging any four golfers in the school, who are not varsity members of the golf team. Recruits for "Colonel" Bibb's squad are professors Harris, Michaelis, Wagner, Huntley, Schommer and Griffis. All those who would like to participate in this massacre of the pros please see Harry Gillespie.

Those who can obtain Dr. McNamara's OK as to his physical condition will, according to the Junior Marshalls' plans, be able to participate in an obstacle race during Junior Week. This obstacle course is being planned by Mr. Schommer and it should appear on the campus in the very near future pending the priorities of vital materials.

Blood is sure to flow as a result of last week's bowling results. Both the Junior Chems and Civils have lost one game each and another loss will eliminate them. This afternoon at two o'clock the battle will take place at Milo Wiesner's alleys of 35th and Halsted. Let's get a crowd out for this event. It should be a rip roarin' affair.

Last week's showing of the track team is really encouraging. Coach Rinehart's men are responding to his fine coaching. Our hats are off to him and to his manager John Reissenweber, who is doing fine work in a thankless job.

All who were planning to turn in scores last week in an effort to make the varsity golf squad and could not play because of weather conditions are instructed to turn their scores in as soon as possible. It will be impossible for those who have not turned in a score by April 6 to play in the University of Chicago match but they may be able to play against Northwestern. Absolute final deadline for these scores is the 12th of April.

In closing, may I give a word of caution to those who have been using the baseball diamond for indoor baseball. There are enough fields about the campus to accommodate a normal amount of softball without the use of the diamond. Coach Weissman hopes that this warning will be enough.

Scribe looks for frosh prospects to bolster Tech nine

By Vince Haughey

With the advent of spring, baseball comes to the IIT campus. Especially noticeable at the practice session is the large turnout of freshmen. More than a third of the original 50 aspirants was composed of frosh. This was similar to the situation that existed at the start of the basketball season and their worth was proved by the successful season coach Ed Wagner experienced.

Although many of those who were in the original turnout have been cut, the greenhats who remain show a better than average ability to hold down a first string position. If anyone has noticed coach Sonny Weissman walking around with his two feet off the ground, it's probably because of his discoveries of freshmen Tom Contes and Hank Pye. Contes, a 215 pound slugger from Kelly High School is a candidate for the outfield while Pye who hails from Leo High appears a likely choice for an infield berth because of his stellar ability in both fielding and hitting.

There are other standouts. Among the freshmen are candidates for first base, Bob Lichtman, letterman from Von Steuben High School and the towering pitcher Jim Oldsue, a letter winner on the basketball team, who played at Fenger High.

Another who has shown his stuff is DePaul's iron man Ernie Krause. Other freshmen who are prospective infielders are Bob Videka from Tilden and midget Don Dulaney who has won two letters in football at Fenger High.

With these prospects doing good work we have reason to expect a rather successful season from the Techawks.

Trackmen take fourth in AAU meet; show fight

The thinclads of Tech got off to a flying start by scoring a total of eighteen points at the recent Central AAU track meet at the University of Chicago, to place fourth in a field of fifteen clubs and schools.

Jack Haberkorn placed second in the 1000 yard dash, five yards behind the winner who ran in 2:23.8 to place highest for Tech.

In the broad jump two members of the track team made the scorers' book. Ernie Harrison and Earl Mills soared through the air to land 20 feet 4 inches and 19 feet 6 inches to gain the fifth and sixth places, respectively. Bill Parks just missed to place in this event with a jump of 19 feet 7 1/8 inches.

Al Purzycki placed third in the shot put with a good shot, for early season form, of 39 feet 9 inches. Chet Swan, a newcomer to the squad placed sixth with a shot of 36 feet 6 inches.

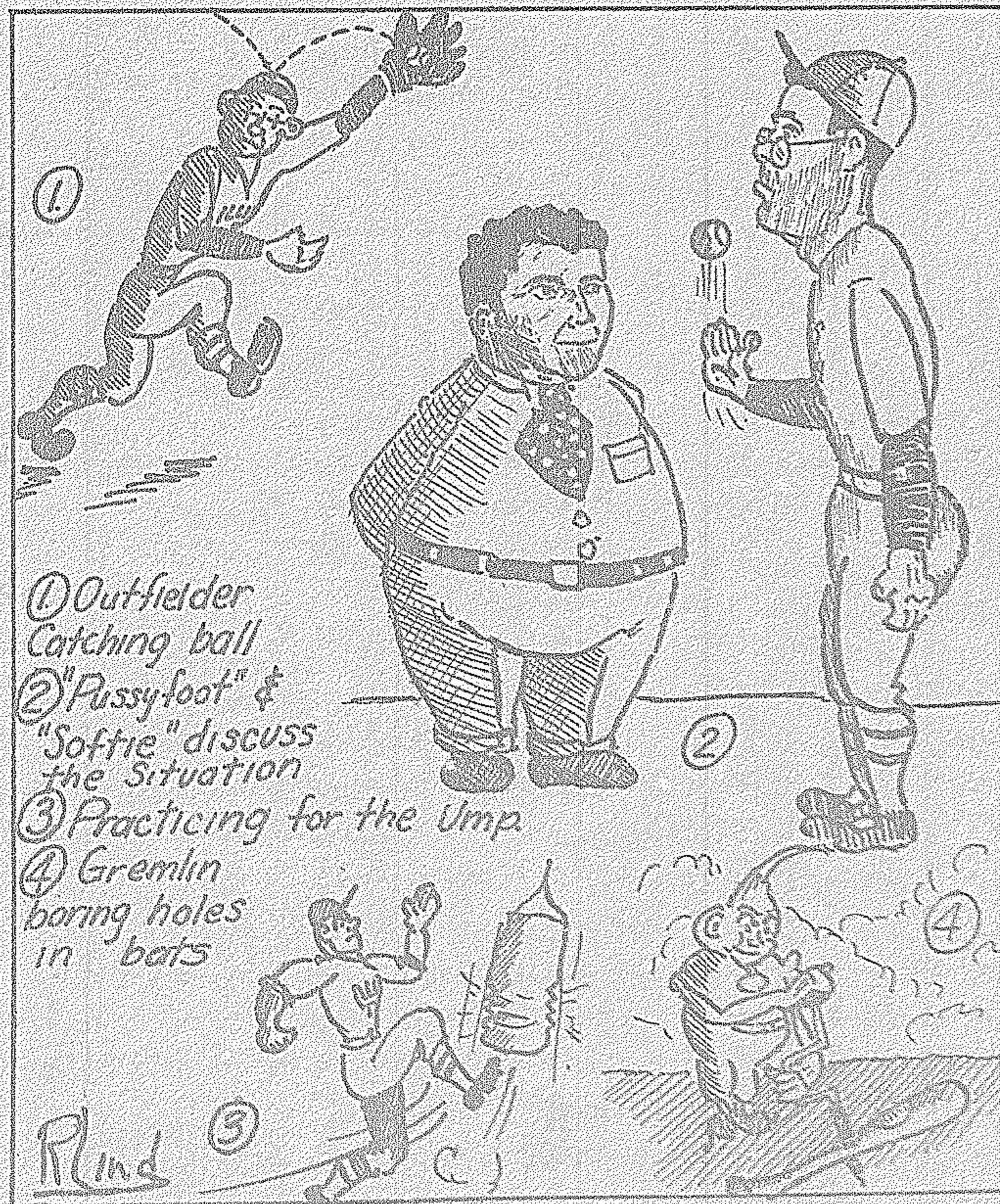
Bill Parks leaped to the height of 5 feet 6 inches but failed to place sixth since he had more misses than the other trackster who also made 5 feet 6 inches.

"Oscar" Anschicks who ran the 600 yards was in fourth place till the last lap and then failed to place. The winner's time was 1:21 while "Oscar" ran it in 1:24.

Doc Reinhart was well pleased with his team's performance, and expects them to do well in the future events.

Lewis gets the call on the best songs of all

SPRING TRAINING



- ① Outfielder Catching ball
- ② "Pussyfoot" & "Softie" discuss the Situation
- ③ Practicing for the Ump
- ④ Gremlin boring holes in bats

Round ③

ATHLETES THEN PROFS NOW

By Marvin Larson

Seeing that so many young engineers are taking their physical training courses under the direction of Grant Stenger, the sports staff thought it would be fitting to present a story on his accomplishments.

Coach Stenger was born and raised in Naperville, Illinois, where he went through all the various phases of schooling. While a student at Naperville High School, he won letters in track, basketball, football and baseball. In his senior year he had the distinction of being placed on the all-state football team along with the other greats of that bygone era.

After graduation Grant enrolled at North Central College in Naperville and continued his athletic achievements there. During his sophomore year he enlisted in the army and was called to active duty at the end of the semester. While receiving his army training at Houston, Texas, Grant found enough time to coach the regimental football and baseball teams. After a period of sixteen months with the medical corps detachment there, Grant was finally sent home.

On his return to Naperville, he started his junior year at North Central College where he received his degree as a major in physical education in 1921.

Directly after graduation he accepted the job of coach at Richmond, Indiana High School. In his one year stay there the school's football team won the Eastern Indiana championship.

After this successful entry into the field of coaching, Grant was selected as athletic head at Ottawa, Illinois. Continuing

his success at this new school, Grant's football team came through with the Central Illinois championship in 1925 and the basketball team won the LaSalle sectional tournament that same year.

In 1926 he became head athletic coach at Wheaton High School. Here Grant's wealth of experience in playing and coaching paid off with big dividends. His football team was well drilled in the basic fundamentals of the game and over a three-and-one-half year period they were undefeated. Highlight of this undefeated period was the year in which the team scored a total of 304 points to a zero total for their opponents.

During this period Grant developed three athletes who won all-American recognition in their college days. These men were:

"Ole" Olson of Northwestern U., Paul Poppelreiter of Washington U. and Don Wheaton of DePauw U. One interesting fact about Grant's success at Wheaton was their annual battle with LaGrange High School. The year that he had his best team at Wheaton, the rival team was coached by Grant's brother, "Ollie" Stenger who was also an outstanding athlete at North Central College. An outstanding game resulted and Wheaton squeezed out a victory by the slim margin of 6-0.

After a ten-year period at Wheaton, Grant accepted the position as basketball and baseball coach here at Armour Tech. When his duties as gym instructor and coach became a little too heavy, the administration made him the head man of the reservists and freshman physical training program. At this writing, Grant is devoting all his time and energy to improving the physical qualifications of all the future engineers under his command.

Mechs lead in bowling race

Only four teams are left as the intramural bowling tournament moves into its final stage. The Soph Mechs emerged from last week's matches as the only undefeated team. They rolled against the 2A Co-ops, and handed them their second trimming, thus eliminating them.

In a close series the Freshmen nosed out the Junior Chems, thus handing them their first defeat in the tournament. Ted Tibutini of the Freshmen rolled a 207 high game in the last line providing the Freshmen's margin of victory, 17 pins.

Because of a bye the status of the Junior Civils remained unchanged. They are one of the outstanding teams in the tournament, twice having bettered 900 as a team. The civils this week will meet their arch rivals the Chems and attempt to avenge last year's defeat at the hands of this team. The Mechs will be striving to keep their undefeated record intact when they meet the Freshmen. The Freshmen, in turn, want to stay in the running and are convinced they can continue their winning streak which has now reached four straight.

Schedule for This Week

Tuesday—April 6
Junior Chems vs. Junior Civils, 2 p. m.

Friday—April 9
Soph Mechs vs. Freshmen, 11 a. m.

Standings

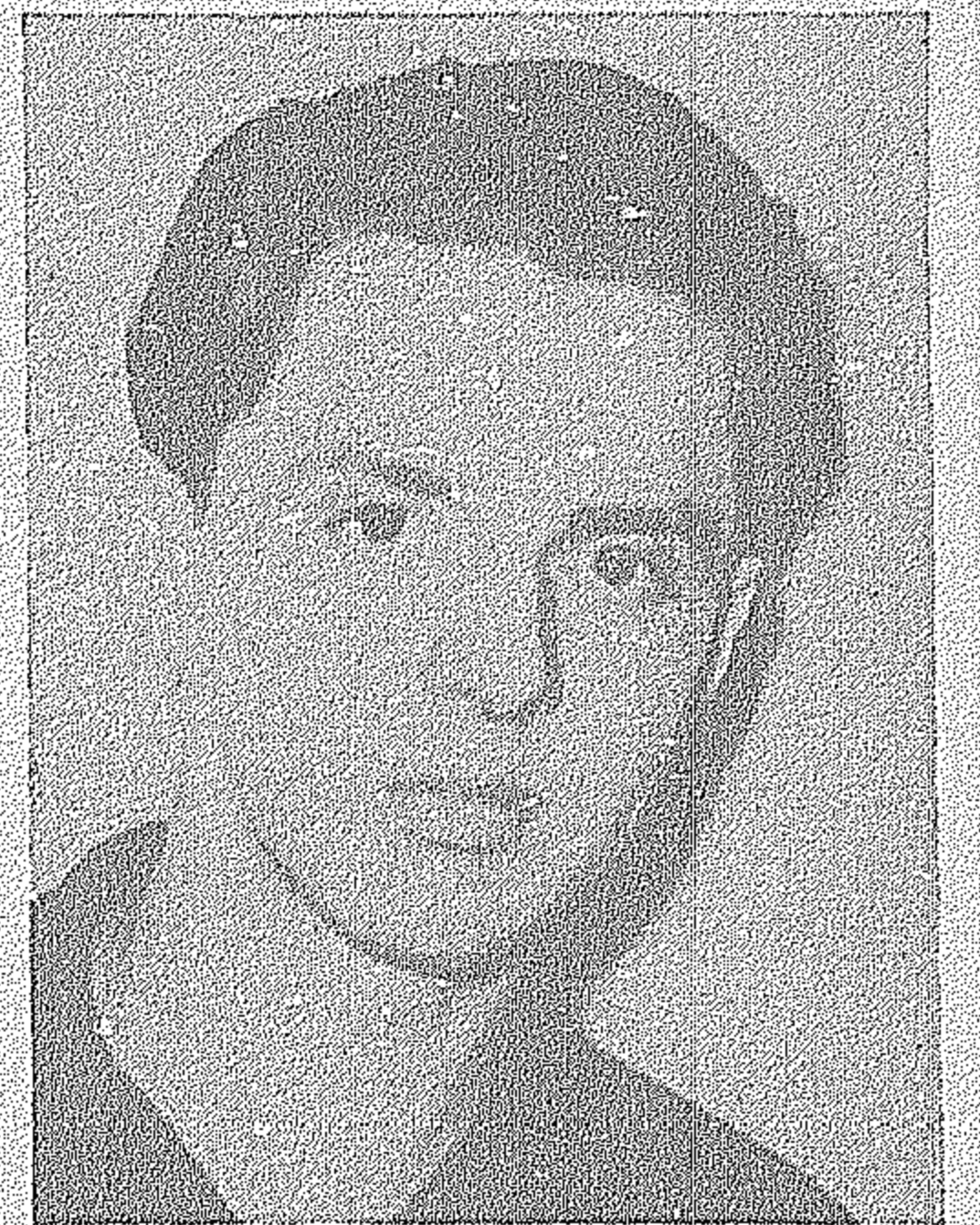
	W	L
Soph Mechs	4	0
Junior Chems	4	1
Junior Civils	4	1
Freshmen	4	1

REPORTERS of THE WEEK

This week TECHNOLOGY NEWS introduces two of its sports writers, Marv Larson and Ted Anderson. Both are junior chemicals and oddly enough co-captains of the junior chemical softball team, playing shortstop and second base respectively.

Marv came to IIT two years ago, after spending his freshman year at Augustana. When he had been here a year Marv left school for a year to work at Central Scientific Company. He returned to school last summer and immediately became a sports leader in the junior chemical department.

for TECHNOLOGY NEWS. This he did in a grand style. Besides reporting and acting as manager



Ted Anderson

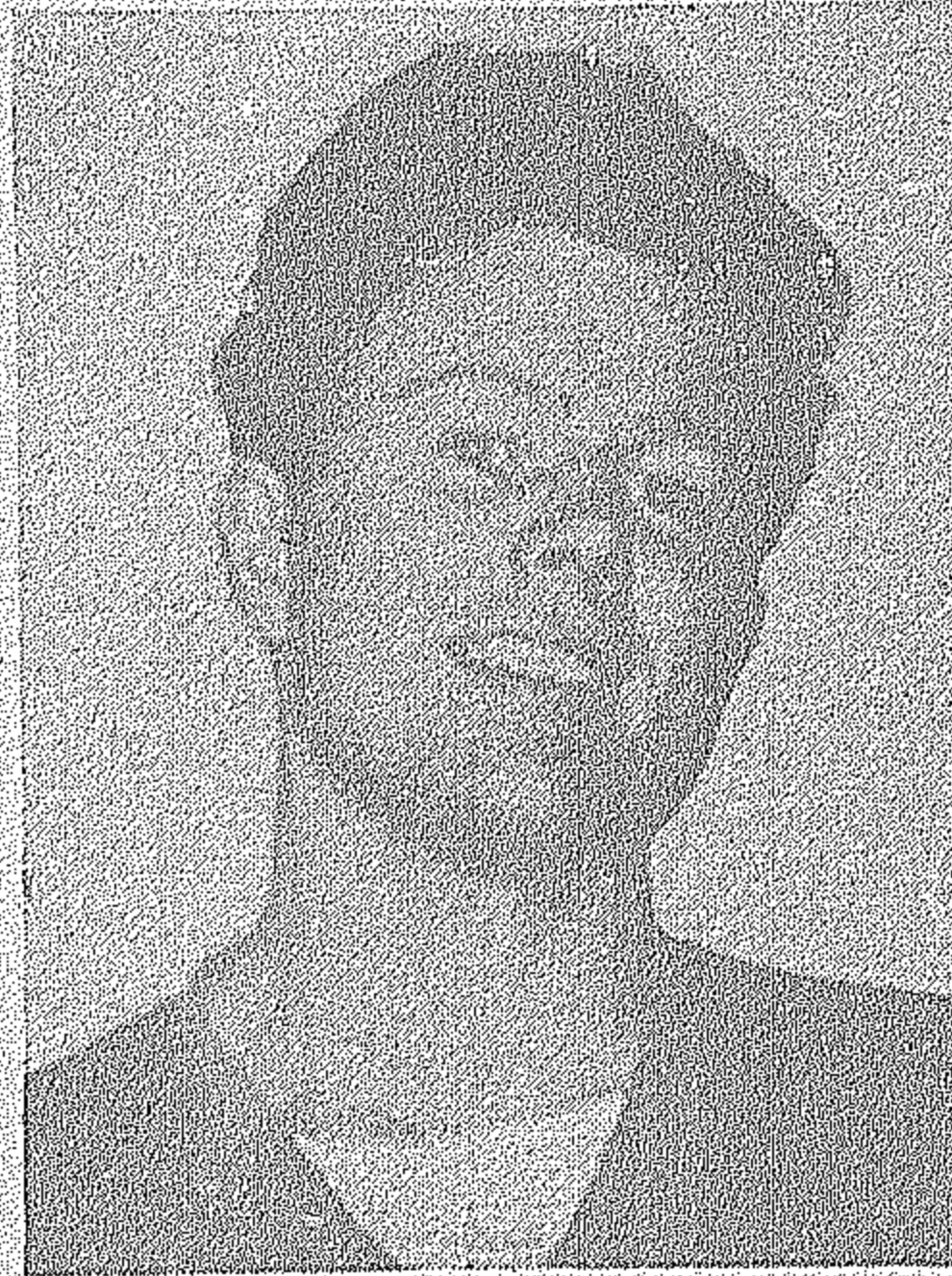
of the basketball team Marv is an active member of AIChE.

Ted, the other half of the Larson - Anderson combination entered IIT in February of '41 upon his graduation from Lane Tech.

He came to IIT on a one year scholarship. Besides his activities on TECHNOLOGY NEWS, Ted is on the board of directors of the Co-op Bookstore. He has been a member of this organization since its conception.

Last semester he was elected to Alpha Chi Sigma, the professional chemical fraternity, in recognition of the high caliber of his work. He served as president of this organization until just recently.

Ted is also known for his attention to the game of chess, at which he is somewhat of an expert. He is one of the men who have challenged the entire school to a tournament of chess.



Marvin Larson

Besides playing baseball last summer he played on the chem football team, until sidelined by a broken arm, and later on the chem basketball team. The accident to his arm prevented Marv from playing with TECH's basketball squad, but couldn't keep him away from the game. He became manager of the basketball team and as such he was in a position to do the reporting of all basketball games

Nineteen teams vie for softball crown

A total of nineteen squads have entered the intramural softball tournament which will begin soon. The freshmen have entered five teams which again have been colorfully named the Joy Boys, Dodgers, Gremlins and the ever powerful Cicco Wizards. Soph teams entered are the Chems, Juicers, Mechs and Co-ops while the juniors have these plus a Civil team entered. Representing the upper classmen are the Senior Archs, and the fourth and fifth year Co-ops.

This tournament promises to be one of the best yet to be seen at IIT. Interest this year has been keen with over 2550 students taking part in it. All but baseball letter men are eligible to play. Meals will be awarded to all members of the winning team at the end of the tournament.

Tennis squad limbers up for new season

Illinois Tech's tennis team once again is well on its way for a repetition of the successful season enjoyed last year.

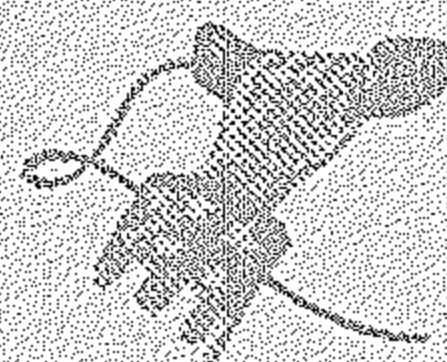
The team is now working out every night of the week, with the exception of Tuesday, from 4:00 to 6:00 in order to attain the best possible condition for its first meet with the University of Chicago on April 19.

The men most likely to appear in the first match have already been selected. They are as follows: in the singles division: Capt. Dick Larson, Robert Bokosky, John Knox, Art Greenwald, and Robert Davis. The only doubles team at the present consists of Capt. Larson and Bokosky. These men will have to show some superb ability in order to beat Chicago's A team. Previously our men were scheduled to play their B team and were always beaten.

Every branch of the Armed Services uses the telephone. One of a series, Submarine.

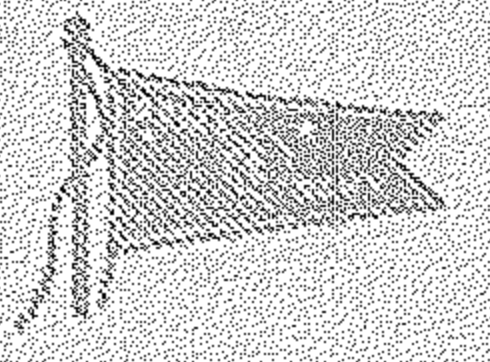


Five thousand miles from home Bill—Torpedoman—is keeping a date. Weeks of waiting, days of watching, hours of hiding under the sea, all for the moment when he reports over his wartime telephone, "All tubes ready, sir!" There'll be other dates, Bill—better ones—in the kind of world you're fighting for.



Western Electric

IN PEACE...SOURCE OF SUPPLY FOR THE BELL SYSTEM.
IN WAR...ARSENAL OF COMMUNICATIONS EQUIPMENT.

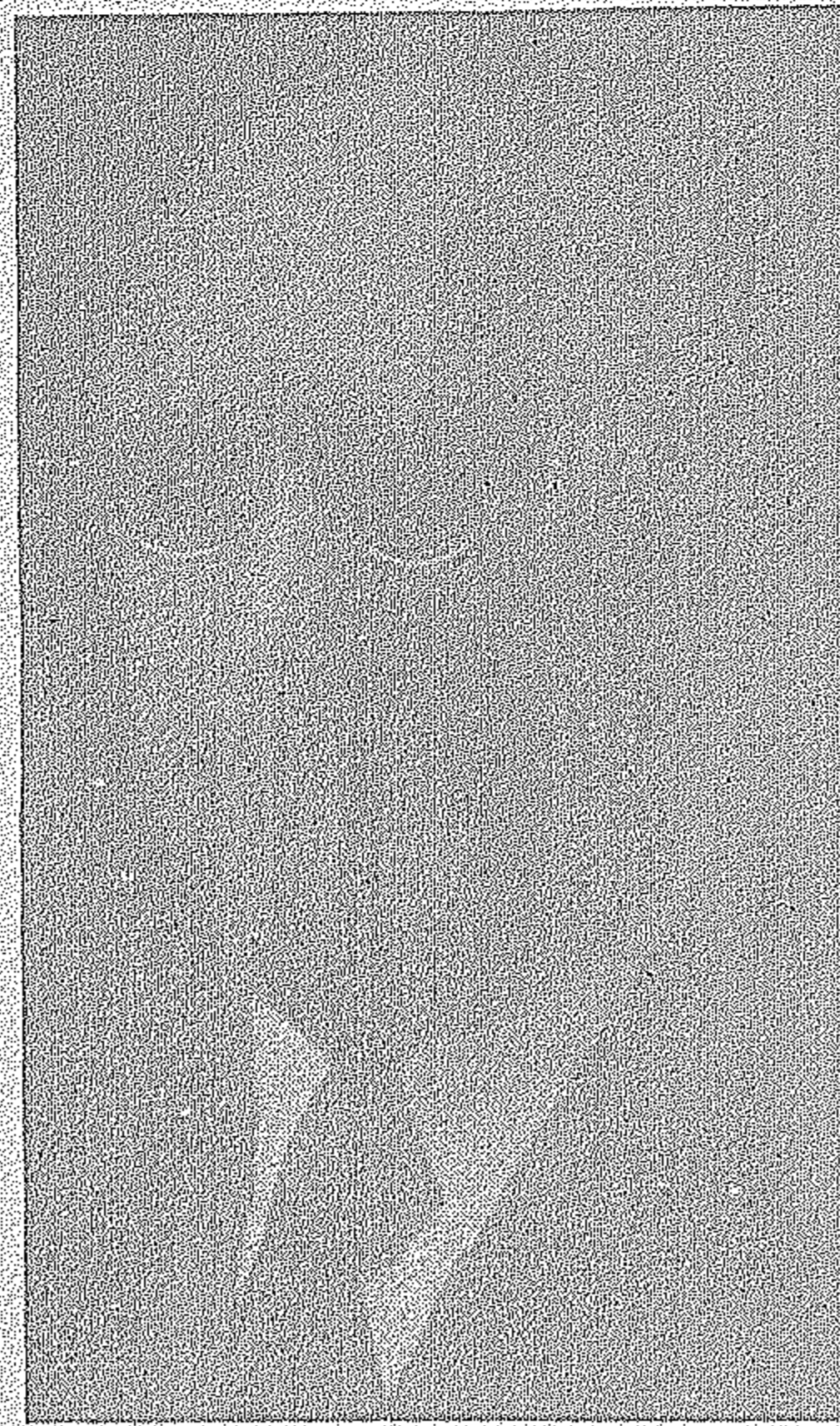


THE OTHER SIDE

Reisner expert in many fields

Although information as to the pedagogical ability of the various members of our faculty can be readily obtained from practically any member of the student body, they have an extremely limited knowledge of the research work which has been and is being done by these men. In an attempt to enlighten the members of the student body in this matter, the IIT chapter of the Society of Sigma Xi, national honorary scientific research fraternity, is sponsoring a series of articles which will appear in TECHNOLOGY NEWS during the following weeks. This week a short biography of Dr. Hans Reissner is being presented.

The idea of the controllable pitch propeller is well known to most of us. Similarly, all of us are familiar with the construction of all-metal, steel, and aluminum planes. The design of both the first all-metal steel-aluminum plane and the first truly practical controllable pitch propeller were the result of Dr. Reissner, research professor of engineering. If the work of Professor Reissner had been confined to these two developments, it would have been sufficient to make his lifelong reputation. However, Professor Reissner's contributions in the field of elasticity, structural analysis, aerodynamics, hydrodynamics, and physics have been so numerous and of such an important nature that it is impos-



Hans Reissner

sible to discuss or even mention all of them here.

Before Dr. Reissner's entry into this country he was a consultant to the German Air Ministry and to several German airplane engine factories. He was then regarded as one of the leading propeller experts in Germany.

As a student Dr. Reissner studied under Professor Muller, one of the founders of graphical and analytical statics. He received his engineering diploma (master's degree in engineering) in 1900. Soon afterwards he left for the United States

where he worked as a structural draftsman for a short time. After returning to Germany and receiving his doctor's degree, he became a professor of engineering mechanics in Aachen.

In 1912, Professor Reissner went to Berlin where he was a professor of engineering mechanics until 1936 in the Technische Hochschule (Institute of Technology). During this period, he published papers on the oscillations of frame structures, structural analysis of "spherical shells," and special gravitational fields. Soon afterward Dr. Reissner entered the field of aviation in the development of which he was to play a considerable role. His pioneer investigations in the field of aerodynamics explained previously little understood phenomena. Investigations into the nature of stresses and deflections of airplane structures, and systemization of aeronautical engineering all gave impetus to aeronautical science.

Since arriving in this country Professor Reissner has published papers on the vortex theory of the screw propeller which have greatly clarified the influence of parasite drag on blades. Returning to the field of his doctor's thesis, professor Reissner, in explanation of the Tacoma bridge crash, has recently published a paper on bridge vibrations in the Journal of Applied Mechanics. This paper gives formula to avoid aerodynamic instability of suspension bridges. At present, besides his work in elasticity, Dr. Reissner is consulting on theoretical propeller design for the major propeller manufacturers. It is indeed our good fortune that this country and IIT have the services of such a great man.

Outstanding men selected for honoraries

Twenty students were recently elected to the honorary fraternities at the Illinois Institute of Technology. Membership in the organizations is granted on the basis of outstanding scholarship and leadership in extra-curricular activities.

Initiates of Chi Epsilon, civil engineering honorary, are Robert Walther and Sheldon Young.

The honorary fraternity of electrical engineers, Eta Kappa Nu, elected Stanley Cooper, Wesley DeBruin, and Roger Patterson.

Pi Tau Sigma, an organization for outstanding mechanical engineers, named the following men: Thomas Dunsheath, Earl Goldberger, Ernest Hedeon, Jr., Bryon Round, Charles Rowbotham, Robert Schneller, Jack Soderberg, Charles Farr, Marcus Heidman, Frank Carqueville, James Carroll, Lowen Shearer, Bert McClenaghan, Robert Erikson, and Robert Botham.

Dr. Dohrenwend WSE speaker

Dr. Clayton O. Dohrenwend, Supervisor of Engineering Mechanics at the Armour Research Foundation, spoke to the Western Society of Engineers, April 5th, on the latest developments in strain measurements. The meeting took place in the evening at 205 W. Wacker Drive.

Lantern slides were shown in addition to demonstrations of actual equipment. Dr. Dohrenwend described the various available types of electrical strain gauges and related equipment, and showed how and when they could be used, both in the field and laboratory. The measurement of rapidly changing strains, up to 8,000 cycles per second, was also discussed, and important new developments on accurately determining strains in structures subject to impact loads, revealed.

Demonstrations were given on laboratory type measurements for such complex problems as eccentricity in springs.

Also receiving attention were the use of X-rays for the study of plastic strains. These unusual presentations enabled the members of the Society and their guests to become acquainted with the latest developments in a field which is of particular importance to mechanical engineers.

Engineer shortage topic of conference

Illinois Institute of Technology and Northwestern will serve as hosts at the annual meeting of the Society for Promotion of Engineering Education to be held at the Drake Hotel on June 18-20.

This year the society is faced with the critical problem of supplying engineers to the nation. With national production speeded up for the war effort, the most conservative estimates indicate that at least 80,000 more engineers are needed. Some estimates are as high as 200,000. How to meet these needs with a current graduation of only 15,000 engineers a year will be the theme of the conference.

Arrangements for this meeting will be directed by President Henry T. Heald.

The objects of the society, as set forth in its constitution, are the promotion of the highest ideals in the conduct of engineering education with respect to administration curriculum, teaching work, and the maintenance of a high professional standard among its members. The means of reaching these goals, as listed in the constitution, are educational research, meetings for the reading and discussion of professional papers, and the publishing of reports of papers, discussions, and communications.

Lewis gets the call on the best songs of all

ESMWT trainees complete ten-week chemistry course

Thirteen trainees recently completed the ten week war training course in chemistry given at IIT under the Engineering, Science, and Management War Training program.

The fact that 12 of the graduates are women emphasizes the new importance of women in the war effort.

A luncheon was held last Friday, April 2nd, by the graduates at Carson Pirie Scott and Company to celebrate their completion of the course. John I. Yellott, director of war training at Illinois Tech, was speaker at the gathering.

Former instructor visits IIT's campus while on furlough

Private Allen Walker Reed, a former English instructor at IIT, visited the campus while on a furlough last week. Private Reed entered the Second Service Command at New York City last summer, and was assigned to work on a dictionary of army terms.

While he taught at Illinois Tech, he did research work on British pronunciations for his Dictionary of Britishisms. In addition to this, he has written a number of articles for various journals.

Reed says he enjoys army life and plans to return to Illinois Tech after the war ends.

POWER

(Continued from page 1) mechanicals are advised to attend either morning or afternoon sessions, if their program permits.

Students who wish to attend the conference are asked to make reservations before hand so that registrations will be ready for them at the Palmer House. Pre-registration cards should be filled out and returned to Professors Nash or Winston before Wednesday, April 7.

Features of this year's convention are the "All Engineers" dinner, on Thursday evening, and the Army Engineering Hour, to be held on Friday night. James D. Cunningham, Chairman of the Board of Trustees of IIT, will be the toast master at the dinner. The speaker of the evening is James L. Walsh, U. S. Army, Retired. His subject will be "Logistics, Science of Survival." Henry S. Aurand, Commanding General, Sixth Service Command, will introduce Col. Walsh. Entertainment is to be provided during the dinner by the Illinois Tech Musical Clubs, under the direction of O. Gordon Erickson. The Army Engineering Hour is a war time feature of the conference. It has been organized for the benefit of attending Army engineers, but anyone registered with the conferences. Following the army hour there will be a social hour.

ALL SCHOOL SOCIAL COMMITTEE

meets in UZW Friday, April 9, at 5:00 p. m.

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