



## LARGE ATTENDANCE AT FROSH SMOKER FRIDAY THIRTEENTH

Schommer, Amsbary  
and Freshman Orches-  
tra Featured

## DEANS SUPPLY SMOKES

Over one hundred men were present at the Freshman smoker held last Friday, "the thirteenth," at the W. S. E. headquarters in the Engineering Building at 205 West Wacker Drive. This has been the first time that the freshman class has had a chance to really get together. The success of the affair may be credited to L. A. Callen, social chairman, who for the last few weeks has been strenuously engaged in gathering together the talent presented.

Professors Schommer and Amsbary were the speakers, and many freshmen, for the first time, became acquainted with these two delightful personalities. Professor Schommer gave one of his famous "informal chats" and the humorous sketch presented by Professor Amsbary "brought down the house."

### Popular "Hits" "Rendered"

The Freshman Orchestra, now comprising about fifteen instruments, practiced especially for this event for two weeks in advance. Led alternately by Ted Cherwin and Bert Petersen, they "rendered" a group of popular "hits," among them: "Yours and Mine," "Something to Remember You By" and others. The orchestra includes: J. Cramer, C. Cunningham, J. Tamney, N. Krause, N. Colburn, C. Wilson, C. Johnson, D. Traver, R. Ekroth, J. Rodighier, T. Peavy, B. Hemmich, W. Gunderson and the two leaders, B. Petersen and T. Cherwin.

Cigars and cigarettes, furnished by the deans, and refreshments in the way of ice cream and cookies added to the completeness of the occasion.

The intimation that the present freshman class is lacking in class and school spirit seems unfounded in view of the large attendance.

## Paper Needs Writers; Call for Soph Scribes

The Armour Tech News is in need of some reporters from the sophomore class. There is an excellent opportunity for men in the sophomore class to gain some valuable experience while doing enjoyable work.

It is a well-known fact that the reporters know more about the school than any other group. Their weekly reporting allows them to contact many of the members of the faculty that they would know nothing about otherwise.

In later life when many of you sophomores will be called upon to list your extra-curricula activities in applying for a job, this newspaper experience will seem like a godsend.

There is still a good opportunity for a few outstanding sophomores, with or without experience, to make their mark in the Armour journalistic field as represented by the News.

## Professor Ensz Out Because of Illness

Professor Herbert Ensz of the department of civil engineering was absent due to illness last Tuesday and Wednesday. Professor Ensz has not been feeling well lately but did not find any concrete evidence of sickness until a week ago last Sunday. At this time he had a bad attack of a stomach disorder which caused him to seek the aid of the University of Chicago Clinic. Professor Ensz was quite profuse in his praise of the efficiency and treatment of the University Clinic.

## Junior Marshals Set For Election

Three men, J. B. Dirkers, F. P. E.; H. P. Richter, C. E., and R. F. Waindle, M. E., have succeeded in obtaining the required number of thirty names on their petitions for the office of Junior Marshal.

As a result their names will appear on the printed ballots at the election to be held this Thursday in Science hall of the Main Building. Votes will be taken at any time between 8:30 and 4:00, thus giving ample time for every Junior to vote. At least one member of the election committee will be present at all times during the day. This committee is composed of O. G. Linnel, Ch. E., chairman; P. H. Blom, Ch. E.; C. N. Cannon, M. E.; E. A. Scanlan, F. P. E.

This is a change from the regular method of election. Formerly, a class meeting was called for the purpose, but this was not exactly satisfactory. The new method should be an improvement, for each nominee had to work to get his petition filled and each junior will have ample time to vote.

## Federal Street Scene Of Battle

Snow of the exact consistency for snowball manufacture furnished ammunition for a noontime battle on the campus last Thursday. No personal or property injury was reported, although the observers at the library windows noticed several losses of dignity.

The occasion for the battle was the necessity of defending the Armour Institute honor from two or three small boys, but the warfare grew to more impressive proportions as new recruits came onto the scene from the Armour Lunch-room.

At the height of the fray four divisions held the four corners of Thirty-third and Federal streets, with all the participants hurling at anyone in range. An aerial attack from the windows of Machinery Hall caused some consternation among those on the ground who were busy enough as it was with well-packed missiles, describing arcs and parabolas all about them.

The free-for-all lasted until the bell for one o'clock classes called for a cessation of hostilities.

## Senior Fire Protects See Newspaper Plant

Senior Fire Protects had a fine opportunity to come in contact with the methods of fire prevention peculiar to certain establishments when they inspected the systems adopted by the Daily News on their regular Friday trip last week.

Owing to the various inflammable materials used in actual production of newspapers and to those incident to maintenance requirements, many precautions have to be taken that would be unnecessary in the ordinary run of loop buildings.

Paper and chemicals used in type cleaning and rotogravure work present hazards both in storage and during use. Arc lights for photo-printing, and molten metal used in linotype and matrice-casting machines are other sources of danger from fire.

Professor Holmes led the men. The trip was taken enthusiastically by everyone, interest being maintained throughout—an interest that was in no way minimized by the fact that many railways send their trains along tracks right underneath the News building.

### TAU BETA PI MEETS

A meeting of Tau Beta Pi, honorary engineering fraternity, was held in the Tau Beta rooms yesterday. It is expected that the spring pledges will be announced the early part of next week.

## SENIORS WILL SEE HAWTHORNE PLANT OPERATION TODAY

Members of the senior class in the departments of Electrical, Chemical, Mechanical and Civil Engineering are guests today of the Western Electric Company of Cicero, Ill.

As the company has done in the past, the seniors are to be shown the departments which interest their particular line of Engineering the most. The embryo engineers will be escorted by men of the engineering staff in small groups so as to permit better attention. Professors from the school who are accompanying the Engineers are D. P. Moreton, H. MacCormack, W. J. Bentley, L. E. Davies, A. W. Sear, R. J. Foster, W. C. Krathwohl, V. E. Teach, J. S. Thompson, E. C. Grafton and J. M. Jacobson.

### All Day Trip

The trip, an all day inspection affair, is novel in that at noon, the assembled seniors will eat dinner as guests of the company and then be entertained with talking pictures. After this the 125 engineers will continue their inspection of the plant.

The seniors in Fire Protection Engineering will inspect the plant at a later date under Professor Finnegan.

The various processes will be explained in detail, such as cutting of insulating material by diamonds, winding of armatures and the various technical systems of tracing out wires and leads.

### Visit Research Lab

Of particular interest will be the research laboratory where new processes, devices and arrangements are discovered by the research engineers and electricians. While the trip will run closely to the line of Electrical Engineering, the other necessities of the plant will be highly interesting to all students.

## Electricals Schedule Speeches by Juniors

Next Friday's A. I. E. E. meeting will commemorate the one hundredth anniversary of Michael D. Faraday's death.

There will be a special program, including talks by several of the students. T. A. McGill will talk about Faraday, and M. J. Schinke will tell the story of Joseph Henry, who did work along the same line as Faraday. Michael Faraday, who lived in England, and Joseph Henry, who was a native of the United States, were both renowned physicists and were far ahead of their time in the research into electrical phenomena. Programs in honor of these men are being given by most of the student branches of the A. I. E. E. throughout the country. All electricals are heartily urged to attend this meeting for it will be both interesting and educational.

## Freshman Dance Will Be Held on April 10

The peak of the Freshman social season will be reached on April 10. On that date the Freshman Dance will be held at the Illinois Women's Athletic Club at 823 N. Michigan. It will take place on the thirteenth floor and will begin at 8:30. Music is to be furnished by Elmer Kaiser and his Northwestern Ramblers.

Bids will cost \$2.50 and will be on sale today. Any class officer or member of the committee will be glad to sell bids at any time. They like the feel of the money even if they can't keep it. The class officers are:

R. Cheatham, President.  
D. S. Manson, Vice-President.  
F. Lowry, Secretary.  
R. Drum, Treasurer.

The committee is composed of: L. A. Callen, Social Chairman; L. Lynch, T. Peavey and E. H. Petersen.

## Tech News Will Hold Straw Vote

One week from today the Tech News will run a straw vote on the coming mayoralty election. A ballot will be distributed with each copy of the News to be marked and returned at the same time. One week later, the Tuesday preceding the election, the News will announce the candidate that received the most support from the student body.

The Armour Tech News has a two-fold purpose in running this straw vote. First, there is the idea of promoting a greater civic consciousness on the part of the students; and second, there is the thought of comparing the ideas of the men in school with those of their brothers, the men of the street. An unusual amount of interest in the election is shown by the arguments that take place daily at Armour and at the Art Institute. But next Tuesday the school will settle all these arguments at our polls.

## McCormack Best Schmier-Kemiker

The Schmier-Kemiker trophy, coveted award of the Armour Branch of the A. I. Ch. E., last week passed into the hands of Ralph H. McCormack, a special student in the chemical engineering department.

The traveling trophy, which is presented to students who enhance the beauty of the laboratory walls and ceiling with their preparations, was given to Ralph for his exceptional work on a nitration experiment. Ralph's story, which was believed by some, was that the agitator ceases functioning with the result that the experiment "got away from him."

Late comers to the scene missed the fireworks, but enjoyed the spectacle of D. S. C. Ullock throwing lime at the ceiling in an attempt to neutralize the acid which was dripping therefrom.

## Chemical Fraternity To Meet On March 19

Phi Lambda Upsilon's annual smoker will be held in the Tau Beta Pi rooms on Thursday, March 19. The time was decided on at a meeting held last Friday. Phi Lambda Upsilon is composed of the shining lights of the Chemical Dept. There will be plenty of smokes and refreshments for everyone. Let's have a representative crowd out next Thursday.

### Calendar

#### Thursday, March 19

2:00 P. M.—Alpha Chi Sigma meeting in P. L. U. rooms.

7:30 P. M.—Phi Lambda Upsilon in Tau Beta Pi rooms.

7:30 P. M.—Track-Bankers Relays at the 124th Field Artillery Armory, 53rd Street and Cottage Grove Avenue.

#### Friday, March 20th

10:30 A. M.—A. I. E. E. meeting in Room D of the Mission.

1:00 P. M.—Code practice of the A. R. A. to be held in the Radio Station.

5:00 P. M.—Boxing—Loyola vs. Armour in the Armour Gymnasium.

#### Saturday, March 21st

3:00 P. M.—Swimming—Armour vs. Illinois Wesleyan at Bartlett Gymnasium.

7:30 P. M.—Armour Invitational Track Meet at Bartlett Gymnasium.

## ANNUAL ARMOUR INVITATION TRACK TOURNEY SATURDAY AT BARTLETT GYMNASIUM

Expect Two Hundred Athletes From Middle West  
Colleges to Compete  
In Events

### TECH RELAY SQUAD ENTERS BANKERS' MEET

## Engineer Will Be Distributed Soon

The next issue of the Armour Engineer will be ready for distribution some day this week or the early part of next week. Earle G. Beason, M. E., '25, is the author of an article on "Chicago Type of Bascule Bridges," appearing in the coming issue. The other features are an article on Conduction of Electricity Through Metals by Professor Thompson of the physics department, a discussion of Fire Hazards in Aeroplane Hangars by H. S. Holt, F. P. E., '31, and the second of a series of two articles by Professor Roesch on Aircraft Engines. The cover design is by S. B. Cone, sophomore architect. It is a reproduction of the "333" building on North Michigan avenue.

### Wins Annual Awards

That the Armour Engineer is among the best of this type of college publications is shown by the fact that it carries off a large portion of the prizes offered each year by the Engineering College Publications Association. The Engineer is the official organ for the publication of results of extra-curricular investigations and research carried on by the students, faculty and alumni of the Institute.

## Class Announcements Displayed by Seniors

Senior announcements are now being displayed by the members of the committee. There are two types of announcements from which to choose.

The paper type of announcement has a white embossed cover tied with a white tassel. The cover design consists of a reproduction of one corner of Armour Mission combined with the school emblem, the word Armour, and the number 1931.

### Design Attractive

The other type of announcement has an embossed black leather cover with the same design on the cover, but part of the background and the letter A of the word Armour is in gold. The leather covered announcement is by far the better looking of the two. The leather bound cost 50c apiece, while the paper covered cost 25c apiece.

The inside of both announcements will list the names of the graduating class as well as the name of the individual sending it.

Orders may be placed with any of the following committee members:

Art Jens, Chairman; M. J. Lamka, F. F. Strassenberg, C. M. Westerman and R. H. Windbigler.

## Fraternity Council Discusses Trophies

Eight representatives of the various fraternities were present at the monthly meeting of the Interfraternity Council held last Wednesday at two o'clock at the Tau Beta Pi rooms.

The disposition of the basketball and sing trophies were discussed. The Basketball Cup is now held by the Phi Phi Phi's and the holder of the Sing Cup will be decided during Junior week.

It was voted that each fraternity contribute a dollar and a half to replenish the treasury.

Armour's Third Annual Invitation Track Meet will be held next Saturday at Bartlett Gymnasium at 7:30 p. m.

The following colleges will probably be entered in the meet: Crane, Chicago "B," Beloit, Lombard, Milliken, Illinois Wesleyan, Culver, Loyola, De Paul, "Y" College, Chicago Normal, Wheaton, Butler, North Central, Concordia, North Park, Thornton, Knox (Galesburg), Monmouth, Mooseheart, Morton, Elmhurst, Lake Forest, Wisconsin State Teachers, Marquette and Armour.

The eligibility of the contestants will be governed by the rules of the institutions from which they come. The National Collegiate rules will be adhered to in the judging of the events.

### Ribbons Awarded Winners

Points will be awarded to the winners of the first five places in each event, as follows: first place, 10 points; second place, 8 points; third place, 6 points; fourth place, 4 points, and fifth place, 2 points. Ribbons will be given to each place winner. There is no entrance fee nor fees of any other kind connected with the meet.

The events will be as follows: 50-yard dash, 50-yard high hurdles, 440-yard dash, 880-yard run, one and two mile runs, high jump, shot put and pole vault. An eight-lap college relay may be included if enough schools apply for it.

About two hundred athletes are expected to enter the meet. Armour will probably have twenty men competing.

### Armour Won 1930 Meet

Last year Armour won the meet, scoring 61½ points, more than twice the amount Chicago's "B" team had for second place.

Next Saturday, the yellow and black squad will not be as successful because of the loss of Don Paul, Sturm and Kara. These three men scored 31 points for Tech last year. Don Paul won first place in the shot put with a heave of 46 feet, 9 inches, tying the Bartlett Gym record. Sturm tied for first place in the 440 yard dash and Kara placed third in the high hurdles.

The following men will probably compete for Armour: Captain H. L. Fox, Hirsch, Helmick and Nelson, 440-yard dash; A. Jens, sprints; Captain James, Iverson, Podilpec, Sademan, Kutteruf, Holland and Barnett, distance men; C. Jens, Miran and Krause, shot put; Oberbeck, hurdles; Setterberg, high

(Continued on page three)

## Armour Radio Station Described By Squires

The circuits of the transmitter and receiver of the Armour Radio Station, W9YV, were described by E. G. Squires, E. E., '31, the chief operator, at a meeting of the Armour Radio Association, held last Friday at 10:30 in the Physics Lecture Room. The transmitter employs a UX352, 75 watt transmitting tube with a tuned grid-tuned plate circuit, using a power supply furnished by a motor generator set.

The frequency of the transmitter must be checked at frequent intervals, in order to comply with regulations of the Federal Radio Commission.

Arrangements were made to hold code practice next Friday at one o'clock for any beginners interested in becoming licensed operators. The practice will be held at the station in the Chapin Hall, second floor.



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"Honor lies in honest toil."

Grover Cleveland.  
Born March 18, 1837.

## Dr. Gunsaulus

Tuesday, March 17, 1931, marks the tenth anniversary of the death of Dr. Frank Wakely Gunsaulus, first president of Armour Institute of Technology, leader in civic enterprise, educator, lecturer, minister, and Christian in the fullest sense of the word. Dr. Gunsaulus succumbed to a heart attack just ten years ago today, and with his passing Chicago lost one of its finest citizens, and Armour one of its most loyal supporters.

Although there is no doubt that every Armour student is at least somewhat acquainted with the life and characteristics of Dr. Gunsaulus, it is entirely appropriate that we show our respect for him by renewing, briefly, the major points of his long career of useful and effective endeavor.

Dr. Gunsaulus was born at Chesterville, Ohio, on January 1, 1856. He was educated in the same state, graduating from Ohio Wesleyan University. After graduation he was pastor at various times of several Methodist and Congregational churches in Ohio and the eastern states.

In 1887 Dr. Gunsaulus accepted the pastorate of the Plymouth Congregational church in Chicago. While holding this office, he delivered the sermon which was to bring about the establishment of Armour Institute. Philip D. Armour, wealthy packer and philanthropist, heard the sermon given that day by Dr. Gunsaulus. He was so moved by the statements in the sermon regarding the obligations of the rich toward the poor, that he offered to finance the founding of a school of technology provided that the pastor would give his time and efforts to the institution.

Dr. Gunsaulus proved his sincerity by accepting the offer and became the first president of Armour Institute of Technology, which was opened in 1892.

The sudden death of Dr. Gunsaulus on March 17, 1921, was a hard blow to his many friends and acquaintances. His funeral was held two days later from the New England Congregational church in Chicago.

Dr. Gunsaulus left a heritage to the school in the record of unimpeachable honor and unswerving loyalty to duty which his life shows, and which are a real inspiration to all who know of them. All who knew him loved and respected him for just what he was—a sincere man of the church, who not only believed the principle of Christianity, but applied them to his everyday life.

W. H. R.

# "The Slipstick"

Cleave to "The Slipstick"; let the Slipstick fly where it may.

## ADIOS

I now take upon myself the painful duty of writing my last column. It has served as an inspiration (especially the contributions) and no end of enjoyment to myself and I feel jealous of the new columnist, who is, by the way, the well-known Bongineer, and whose real moniker is George L. Bonvallet, E. E., '32. May luck be with him.

I also want to take this opportunity to thank all who have sent in contributions and stale jokes. It makes one feel good to know he is being appreciated. We wish to introduce the following, who have helped in the last year, to our readers: The Bongineer (George L. Bonvallet), Jaesmackse (James S. McCall), O. R. S. (O. R. Steinert), F. E. D. (D. E. Freer), R. E. M. (not an ad) (R. E. Meagher), D. B. C. (D. B. Cunningham), Sliv (H. Hoebel), Al (A. B. Auerbach), Dutch (W. A. H.), K. (C. H. Miller), and M. B. (M. Berger).

The following have deemed it best to keep their identities secret, but, nevertheless, we thank them: the Co-ed, Another Co-ed, H. C., Ted '34, Monsieur Pthalic Acid, Pop, Won Wo, Step Hen, J. A. L., Pied Typer and A. Plotzen Zolsta. If I have omitted anyone I am sorry, but thanx anyway.

The rest of the column will be devoted to a resume of the best jokes appearing in the column during the past year.

—Phil J.

An Englishman was visiting this country for the first time, and as he was driving along the highway, he saw a sign, "Drive Slow. This Means You!" He stopped in surprise and exclaimed: "My word! How did they know I was here?"

## WLL WLL

Wouldn't it be funny if there were no vowels?  
This shws wht th nglish lngg wld b wtht thm.

"I hear that you fainted at the party last night and they brought you to?"

"Yes, and then I fainted again."

"Good gracious! And then what happened?"

"They brought me two more."

## MORAL—NONE

A dog was carrying a piece of meat across a bridge. As he crossed the stream he saw the image of another piece of meat in the water. He laid the piece he was carrying carefully down on the bridge and jumped in. In a moment he appeared with the other piece, climbed onto the bridge, and walked off with both pieces.

—R. S. F.

Father: "I want you to be a girl that people will look up to."  
Her: "I'd rather be one that they look around at."

Abe: "Do you play golluf wit knickers?"  
Levi: "No, wit white people."

## The Last Laugh

He was a very young officer who looked as if he should be wearing knee breeches. One day when his company was up for inspection at the training camp, one of the men remarked in a tone of deep sarcasm: "And a little child shall lead them."

"The man who said that will step forward," was the immediate command. The entire company stepped out and repeated the quotation.

The lieutenant looked up and down the line.

"Dismissed," he announced shortly.

The men thought they had the better of him, but not for long, for that night at retreat, when the orders for the following day were given, they heard:

"There will be a twenty-five mile hike tomorrow with full equipment, and a little child shall lead them—on a darn good horse."

—Al

## NO TRESPASSING ALLOWED

One of the wings of the plane had broken and its pilot, after crashing through a mass of planking and plaster, found himself resting on a concrete surface in utter darkness.

"Where am I?" he asked feebly.

"You're in my cellar," came an ominous voice out of the blackness, "but I'm watching you."

—Al

## Different

Host: "There are my grandmother's ashes, there in the corner."

Guest: "Oh, so the poor old soul has passed on?"

Host: "Oh, no. She's just too lazy to look for an ash tray."

Column Conductor: "Did you write these jokes yourself?"

Contributor: "Every one of them."

Col. Con.: "Then you must be lots older than you look."

## Yah! Of Course

An old German and his wife were given to quarreling. One day, after a particularly unpleasant scene, the old woman remarked with a sigh:

"Veil, I vish I vas in Heaven."

"I vish I vas in the beer garden," groaned the husband.

"Ach, yah," cried the old wife, "always you pick out the best for yourself."

Goodbye, gang, and the best of luck to you, Bon,  
Philip Jordan

# TAKE IT OR LEAVE IT

By AL GOODMAN, '34



Note: This is the first of a series of sketches of this nature to be published by the Armour Tech News. The author is prepared to give proof of any statements in this section.

## Professor Westgren Addresses Chemicals

Professor Arne Fredrik Westgren will present an interesting lecture on "Crystal Structure of Ordinary and Alloyed Steels" before the regular gathering of the American Chemical Society at the City Club of Chicago, 315 Plymouth Court, next Friday, March 20, at 7:30 P. M. Metallurgist Westgren is Professor of Chemistry at the University of Stockholm, has studied the Brownian movement and through study of the study of the sedimentation equilibrium in gold colloids has made determinations of the Avogadro number.

His interest, however, has been turned into the field of metallurgy proper, partly through his position as metallographer to the S. K. F. Ballbearing Company. Along these lines he has done notable work dealing with the crystal structure of iron and alloys. He will speak on his wide experience in this branch of metallurgy on Friday.

The usual group meetings on Friday night offer: "Manufacture of Nitrocellulose," illustrated with motion pictures and conducted by H. D. Bledsoe, Brevolite Lacquer Company, for the Inorganic and Analytical section, and E. P. Gillan of the Chicago Starch Company, will explain to the Education group "Where Corn Products Have Led Me."

## Get Million Letters in Cigarette Contest

More than one million letters were received in answer to the recent one week's national newspaper advertising campaign announcing prizes in connection with the new cellophane wrapping for Camel cigarettes, according to announcement by R. J. Reynolds Tobacco Company.

So great was the response that the officials estimated that it would take the judges and their staff several weeks to read all of the entries and select winners of the thirty-eight prizes offered.

It has been stated that newspapers were used exclusively in advertising the contest, and that entries were received by every conceivable means of transmission, in almost every language, in tiny packages and in large express packages, and on thousands of different kinds of paper.

## Arx News

Thursday, at 3:45, the sophomores, juniors and seniors held a meeting in the club room of the Art Institute. The purpose of the meeting was to inform the fellows about space in the Cycle for the Architectural Society, and also to get material and information regarding the freshman initiation. Definite arrangements will be made in the next few days. Dave Chapman, junior massier, presided.

An architect's life at the Art Institute is not one filled with excitement. Even a mere pigeon can cause a commotion. Last Thursday morning all was peaceful and serene in the sophomore room. The diligent architects were earnestly at work when a harmless pigeon entered through an open window and disturbed a student who was busily rendering.

The architects quickly gathered beneath the unlucky bird and suggestions to get him out were quickly voiced. By this time the pigeon seemed exasperated, so he politely settled down upon the chords that run between the trusses and lightly, ever so lightly, flew out the window. And the architects, seeing their faint ray of hope for a few minutes rest period winging its way over the roofs, gloomily settled down to their task of designing a theatre. Ah, me! And he was such a little pigeon to raise such a big commotion.

Last year there were more college students in the United States than in all the rest of the world combined. There were 1,237,000 students enrolled in colleges and universities in this country.

The last forest service game census disclosed that 17,400 bears of the 50,000 black and brown bears in the United States forest are in California.

Arabia is more than 10 times the size of England, Scotland, northern Ireland, and Wales.



## Zielenske Tells About Hazards of Crude Oil

As a fitting climax to last week's inspection trip to the Standard Oil Company, Mr. Walter F. Zielenske described the oil industry to the Fire Protectors at their meeting Friday, March 13.

Mr. Zielenske started with the demand for petroleum, telling of the present over-supply, although a few years ago, government control was considered the only means of keeping the world supplied with the now indispensable material.

According to Mr. Zielenske, there is no need to sink wells inside the city limits, as was recently done at Oklahoma City, and so endanger the property, and even lives, of a number of citizens, for the supply exceeds the demand.

The crude oil is devastating to the surrounding landscape, because it gets all over the trees for a considerable area around the wells and slowly burns them up.

The companies suffer great losses from evaporation; not only at the wells is it a problem, but also at the refineries. Attempts, as yet unsuccessful, have been made to cover the pits in which the crude oil is kept, with welded cast iron roofs, wood roofs, and net roofs.

At the refineries, the problem is solved somewhat by allowing the storage tanks to "breathe" into huge canvas bags held in square sheet iron houses.

After the oil has been sent through pipes, which are welded together, from the field to the refinery, it is distilled, cracked, etc., and then distributed.

The greatest precautions are observed in order to keep from starting a fire. At the refineries, no one is allowed to enter the plant carrying matches, all electrical switches are closed or are outside the building. The lights are protected by vapor proof globes. No fires are allowed to be built nor any welding to be done without being directly supervised by a foreman.

Here, Mr. Zielenske was forced by the lack of time to close, although he had not nearly exhausted his subject and regretted that he did not have time to tell more.

## Mechanicals Witness Movies About "Steam"

Three reels of motion pictures, entitled "Steam," were shown to the members of the A. S. M. E. at their regular meeting last Friday, March 13, in the Electric Lecture Room. The pictures were explained by Mr. Ripley of the Babcock and Wilcox Company.

Cross section drawings of steam boilers were first presented, the paths of air, hot water, steam, and hot gases being pointed out.

The manufacture of the individual part of a modern boiler was then depicted. It was shown how two inch plates were bent in circular shape and riveted together in the construction of the cylindrical part of the drum, and how the ends were forged out of iron and attached to the circular plates.

The motion pictures were followed by slides, showing first several different types of boilers, and then explaining the manufacture of high pressure seamless drums. It requires four days to heat the huge blocks of iron to the forging temperature. Then under terrific pressures, the iron is gradually shaped into the proper form, the entire operation requiring nine to ten weeks.

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## Reviews

THE ADDING MACHINE  
By Elmer Rice

Presented by the Goodman Repertory Company

"The Adding Machine" is a surprisingly unusual play about ever-so-unusual people, presented in a most unusual manner. A serio-comic jibe at the middle-class American mode, it is more than satire, yet less than bitter invective; more than sympathetic humor, yet less than out-and-out farce. So quickly does it change from one extreme to another that while we are still chuckling at some crazy inanity, the play develops a sorrowfully tragic quirk that makes us catch our breath. It is something like playing "follow the leader" behind someone brilliant, devilish, and recklessly alive.

Mr. Rice has a great time with Mr. Zero, his infinitesimal speck of person who thinks, feels, and acts like his thousands and thousands of fellow infinitesimals; Mr. Rice pokes him, and Mr. Rice kicks him, then Mr. Rice sits on his head. But it's all done with a tongue-in-cheek spirit so wholly free from malice or bitterness that the entire business becomes quite entertaining and highly amusing (to us, at least). He gives Mr. Zero a job adding figures for 25 years and a berating, shrewish wife who has railed at her husband for just about as many. Then he fires Mr. Zero and he hangs Mr. Zero and sends him to Heaven and back. Now that sounds about as funny as an eye-ful of cinders (33rd street brand), but our hero, by his total lack of imagination and character, invests the situations with humor often ridiculous, sometimes tragic, even eloquently appealing. Yet, the pathos of life which holds little else but unfulfilled hope remains as a background, varying from complete encompass of the scene to but a faint hint of overcasting shadow. The effect, however, is not one of adulteration or loss of brilliance, but rather enhancement of even those parts which apparently contain no element of the serious.

The acting and stagecraft in this presentation of "The Adding Machine" was excellent. Harry Mervis, in the lead, gave a convincing and masterful performance. His handling of the crisis in the career of Mr. Zero was effective, yet completely free from affectation. Katherine Krug, as the sensitive, thwarted spinster slave of the business world, was likewise pleasing. The best moments of the play were those in which these two held the stage. No small part of the success of "The Adding Machine" is due to the skillful employment of settings and stage lighting. Modernistic central groupings with light concentration on the principle resulted in distinct emphasis. The effect was surprising.

I enjoyed "The Adding Machine" because it was interesting entertainment presented in an out-of-the-ordinary manner. It was different from anything I had seen before. —Morton Fagen.

Twenty Armour Men  
In Invitational Meet

(Continued from page one)

jump, and Luckett, pole vault. Considerable competition is expected in all events and several meet records will probably be broken. Members of the University of Chicago hold six of the ten records made in the two previous meets. Butler, Armour, Chicago Normal and Marquette have the other four records.

## Bankers' Relay Thursday

Armour will enter a medley relay team in the Bankers' Relay meet to be held at the 124th Field Artillery Armory next Thursday night at 7:30 p. m. The team will consist of the following men: Captain Fox, 440-yard dash; A. Jens, 220-yard dash; Captain James, one mile run, and Nelson, 880-yard run. A. Jens will also enter the 70-yard dash special event.

A shield will be given to the winner of the college relay event. Gold medals will be awarded to members of the winning team. About four colleges have entered their teams. Armour has a very good chance of winning first place because of its previous record.

Civils Complete Work  
in Bridge Competition

Twenty-seven senior civils, entrants in the American Institute of Steel Construction Bridge Competition, spent the specified nine hours last Thursday on their projects.

In this space of time the bridges passed graphically through all the stages of construction, from the laying of the masonry piers to the installation of the lighting system.

Three prize winners are selected from both the architectural and engineering entries. First prize carries an award of \$500, second prize \$250 and third prize \$100 in cash. This is the first year that Armour students have participated in the competition. A total of 150 students entered these competitions last year. A number of the best looking designs are selected from

the preliminary competitions to compete in the final judgment. Those fortunate to survive the first elimination are notified and requested to enter a finished plate based on the preliminary entry.

The problem for this year is the design of a bridge 1770 feet total length with a clearance for each span of 250 feet horizontally for a height of at least 70 feet above the surface of the water.

This bridge is to serve the needs of a city of 150,000 inhabitants.

The purpose of this competition is to encourage more beautiful designs of steel bridges from an engineering point of view. The Jury of Award will consist of three consulting bridge engineers of national reputation and two nationally-known architects.

John Heckatorn of the University of Idaho was first prize winner last year in the engineering department.

## FRATERNITY NOTES

## KAPPA DELTA TAU

Monday, March 8, found the pledges of Kappa Delta Tau preparing themselves for the last lap of hell week. The pledges were busily engaged in changing half dollars into pennies, and providing themselves with candy and cigarettes, that they may comply with the wishes of the more dignified members. A good crop of whiskers is also expected before the week is over.

On Saturday, March 14, at 7:00 a. m., the K. D. T. fraternity will leave Chicago for their cottages at the Dunes, where the informal initiation will take place. The Alumni will join the boys later in the day, before the "zero hour." A good time is expected by all.

## DELTA TAU DELTA

Probation week for the following freshmen will begin tonight and continue until Saturday, March 21: Robert Drum, F. P. E., '34. George Bills, E. E., '34. Fred Lowry, F. P. E., '34. Thomas Peavey, F. P. E., '34. Robert Schorling, Ch. E., '34. Louis Streb, C. E., '34. Formal initiation will be held Sunday, March 22.

## TRIANGLE

We are assured of the continuance of good fraternity dances if the Initiates' Dance of last Saturday may be taken as an indication of what the lower classmen are capable of formulating.

Bob Johnson, '30 looks quite prosperous after being with the Armstrong Cork and Insulating Co. of Lancaster, Pennsylvania, for the last few months.

## NEW BOOKS

## NON-TECHNICAL

Economic Policy of Russia  
Haensel, Pavel Petrovich

Drifting Sands of Party Politics  
Underwood, Oscar W.

## TECHNICAL

Electron Physics  
Hoag, J. Barton

Handbuch der Spectroscopie  
Kayser, H.

Organic Syntheses, Volume II  
Marvel, Carl S. Ed.

# What the NEW HUMIDOR PACK means to Camel Smokers\*



**C**OMPARE a package of Camels with any other cigarette and note the difference in the technique of packing.

Note that Camels are completely enclosed in an outer transparent cover of moisture-proof cellophane and sealed air-tight at every point.

We call this outer shell the Humidor Pack. It differs from the ordinary cellophane pack and while it is egg-shell thin, it means a lot in terms of cigarette enjoyment.

It means, for instance, that evaporation is checkmated and that Salt Lake City can now have as good Camels as Winston-Salem.

While Camels are made of a blend of the choicest Turkish and mellowest domestic tobaccos, it is highly important, if you are to get full benefit of

this quality, that these cigarettes come to you with their natural moisture content still intact.

The Humidor Pack insures that. It prevents the fine tobaccos of Camels from drying out and losing any of their delightful flavor.

Aside from cheap tobacco, two factors in a cigarette can mar the smoker's pleasure:

*Fine particles of peppery dust if left in the tobacco by inefficient cleaning methods sting and irritate delicate throat membrane.*

*Dry tobacco, robbed of its natural moisture by scorching or by evaporation gives off a hot smoke that burns the throat with every inhalation.*

We take every precaution against these factors here at Winston-Salem.

*A special vacuum cleaning apparatus removes dust and now the new Humidor Pack prevents dryness.*

Check the difference yourself. It is a very simple matter to check the difference between Humidor Packed

Camels and other ordinary dry cigarettes.

First of all you can feel the difference as you roll the cigarettes between your fingers. Camels are full-bodied and pliable. A dry cigarette crumbles under pressure and sheds tobacco.

If you will hold a cigarette to each ear and roll them with your fingers you can actually hear the difference.

The real test of course is to smoke them. And here's where the new Humidor Pack proves a real blessing to the smoker.

As you inhale the cool, fragrant smoke from a Camel you get all the mildness and magic of the fine tobaccos of which it is blended.

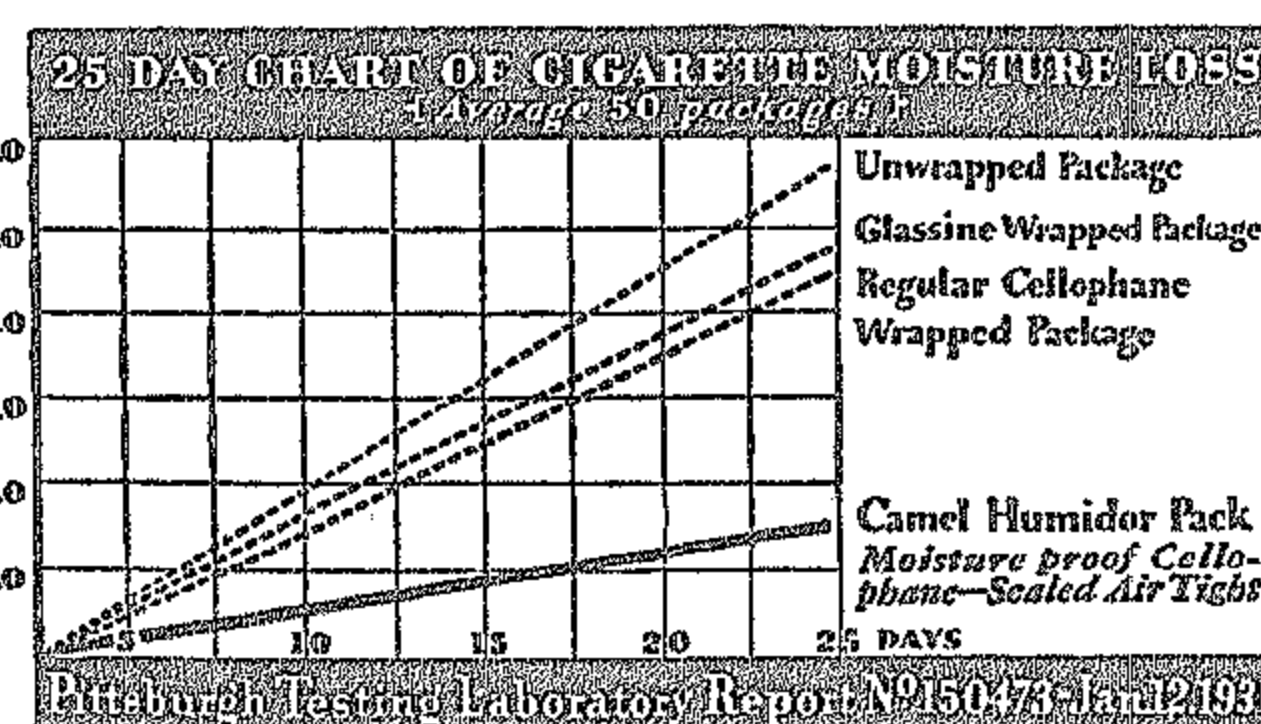
But when you draw in the hot smoke from a dried cigarette see how flat and brackish it is by comparison and how harsh it is to your throat.

If you are a regular Camel smoker you have already noticed what proper condition of the cigarette means.

But if you haven't tried. Camels in the new Humidor Pack you have a new adventure with Lady Nicotine in store.

Switch your affections for just one day, then go back to your old love tomorrow if you can.

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The Pittsburgh Testing Laboratory chart above graphically shows you that only the Camel Humidor Pack delivers cigarettes to you in prime condition

\* *smoke a Fresh cigarette!*



## TECH LEATHER PUSHERS TO FIGHT LOYOLA BOXERS IN MEET FRIDAY AFTERNOON

Second Home Match to Feature Eight Bouts in Encounter With North Side Team

### SEVERAL CONTESTS IN NEAR FUTURE

In response to a deft, hurled at all colleges in the middle-west to test the ability of their boxers in the presence of the Armour Tech team, Manager Cannon has received an acceptance of a challenge from the Loyola University squad for a pair of meets, the first being held at Armour next Friday afternoon. The second scramble will take place in the Loyola ring.

When the Loyola representatives invaded the training grounds of the Tech leather-pushers, Armour students and faculty will be afforded the opportunity to view two of the best amateur squads in the city of Chicago in action. A total of eight bouts will insure sufficient action and excitement.

#### Student Rooters Needed

Since its inception as a recognized school sport, Armour boxing adherents have had only one such previous opportunity to view our fighters in action, when they defeated the Y. M. C. A. state champions in the home ring. The turnout at this time was a manifestation of the fact that Armour students were keen boxing enthusiasts. Of course this interest must show itself again by a record turnout at this coming home meet in order to warrant further home appearances.

In each of the four meets in which Coach Weissman's squad has participated, the fighters labored under hostile and adverse conditions and yet, according to the opinions of impartial observers, prejudiced judges were responsible for defeat in every case.

#### Tech Favored To Win

Solid support of the student body will therefore lend impetus to the fiery determinations of the pugs who are confident that they will send the north siders home, smarting with defeat.

The Armour Tech boxing team has been the pioneer of the idea that boxing should be a recognized sport in all middle-west colleges, putting them on par with the eastern institutions. Athletic mentors are recognizing this fact with the result that teams are being organized at Notre Dame, Wisconsin, Illinois, Loyola, Valparaiso, Purdue and others.

The Loyola-Armour meet will feature the first official scrap, with each team fighting fiercely to carry off a victory in this first encounter.

#### Valparaiso, Next Opponents

Manager Cannon also states that he has accepted a challenge from Valparaiso University who will be Armour's opponents in a home meet in the very near future. Tentative arrangements are also in progress for a home meet with St. Viator College, who boast an exceptionally strong squad this year. The program this year will set a new record in the number of engagements which previously has been four or five, and which this season will probably be twice this number.

Coach Weissman states that he will send the following men against Loyola: Montesano, Sandstrom, Kosan, Milevsky, Capt. Ustryski, Heckmiller, Campione, Mago, and Rush.

A bureau of information is being formed at Wisconsin to obtain and publish statements of prices for fraternity stewards.

When co-eds of Morning College, Iowa, appeared for breakfast clad in pajamas, college men waiting on the table went on strike.

Thirty-six members are enrolled in the Tippecanoe county 4-H beef club.

The boxing tournament has been temporarily postponed until the Friday after the engagement with Loyola, namely March 27.

At this time, the initial and probably the final bouts will be fought. First and second place winners in each weight will receive medals for their efforts. Varsity members will be prohibited from competing, thus putting the contests on an even basis.

#### School Tournament Next Week

The rounds will all be two minutes in duration with one minute rest periods. Seconds will be furnished from the boxing team. Coach Weissman will officiate the bouts and will pass on the winners together with the votes of two judges.

It is unfortunate that the varsity meet should necessitate the changing of the date, but such is the case, affording the participants still more time for conditioning.

### Heavy Snow Prevents 1931 Tennis Practice

Tennis for this year was given a severe setback by the heavy snow a week ago. Captain Eddy urges all the men on the team and also those who wish to try out for the team, to get in shape by some form of indoor practice. The probable late opening of the outdoor courts makes it necessary for tennis contenders to be in shape before the outdoor practice opening.

A tennis tournament will probably be held, but the system used last fall will be ignored, too many games being won by default. A default game does not bring out the mettle of a player and for this reason, all entries must be written and handed in to Professor Colvert, Captain Eddy, or Manager Krause. A definite notice will be placed on the bulletin board in time for entrants to get their names turned in. The purpose of the tournament is to locate new material for the team.

It is possible that Tech will also have a "B" team this year. This will depend largely on the number of players and also on their ability. The tentative schedule includes such teams as Notre Dame, Lake Forest, Loyola, Detroit and Hillsdale.

### Annual Tournament To Open Golf Season

The '31 golf season will be opened by the annual spring tournament which will be held shortly after the snow has disappeared and the ground is in readiness for the trooping golfers. The tournament will be open to any Armour student who has not earned his "A" in golf. Evergreen Country Club will be the scene of the battle which will consist of thirty-six holes of medal play to be run off on two successive Saturdays.

All students who wish to enter are asked to hand in their names to either Professor Leigh, golf coach, or Manager R. E. Meagher. As soon as a date can be set for the medal play, a notice will be posted on the bulletin board.

The main purpose of the tournament is to select men for the team. Therefore, all men who wish to play golf for Tech this season are urged to hand in their entries. The schedule this year will probably consist of about seven matches, the dates being tentative at present.

### Weather Hampers Diamond Tryouts

Coach Krafft and his company of baseball enthusiasts are encountering a somewhat uneasy experience in awaiting the appearance of a few sun rays which will beat their way down on Ogden Field and render it available for baseball practice.

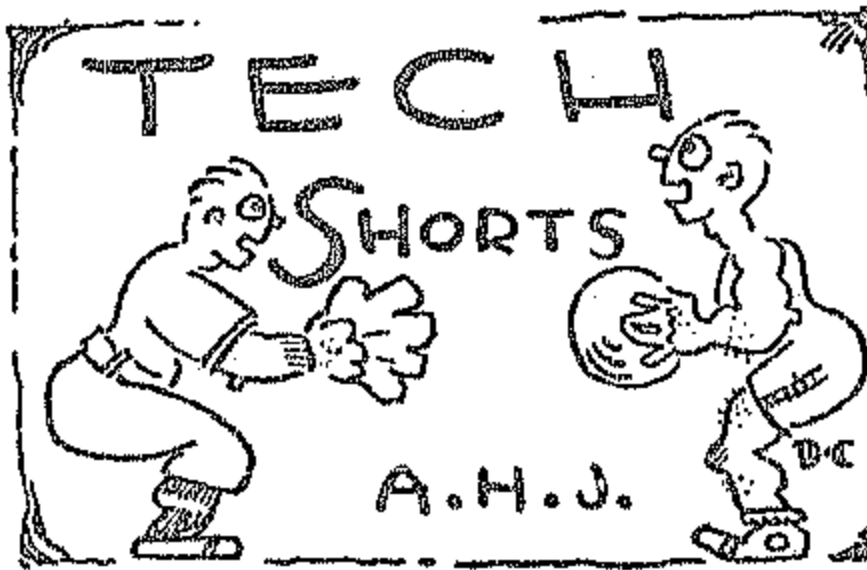
Since the first game is scheduled for April 10, Coach Krafft will be obliged to select and cultivate his band of diamond cavers within the next three weeks. This opening game scheduled with Morton College promises to be a hard tussle and victory will only be attained if the men are in condition.

The present condition of Ogden Field is such that practice cannot be started. This seriously hampers Coach Krafft's hopes of succeeding in his venture and consequently Mr. Krafft is victimized with an eccentric disposition when the topic of baseball is brought to fore.

#### Call For Players Soon

All would be well if our Coach had a majority of last year's regulars in camp. One toot of his clarion would serve to organize his proteges and another sound would send them off on their scalp hunt. As the case is, his training program will consist of finding the players, eliminating the less capable and finally developing those who make the grade.

Although the outlook for a season which will compare with last year's is not too promising, Mr. Krafft has an inkling that the team will produce good results. There were a total of eighteen pitchers and catchers who responded to his call for battery material, and three times this number are very likely to answer his call for fielders. Stehno, Mago, Link and Robin, last year's regulars will return to their posts this year, while Cannell, Clear, Buehne, Sommer, Lynch, Richardson, Young, Simpson, O'Connor and Cramer, less experienced players, are in line for some of the vacancies.



#### Weather Man?

It seems we rang the bell last week when we predicted the snow storm several days before. As a matter of general information this column is written on Thursday preceding the week of issue, therefore we think we should receive credit for calling to the attention the gentleman who controls the weather that snow was due. We should like to predict a temperature of 55 degrees and sunshine from now on. Wouldn't that be great. All outdoor sports could get a head start in training and we could put up our red flannels for another year.

#### An Old Custom

On the 21st, which is Saturday, spring is scheduled to arrive. May it be prompt in coming with the above mentioned sunshine and warmth.

#### Sand Bags Count Five

As is usual, the junior class is having difficulty in selecting a man to the position of Junior Marshal. Aspirants for this position should page any of last year's Marshals for data on the class rush and pants removing incidents. White pants and yellow jackets seemed to exasperate the sophomore rushers to the extent of their trying to remove several of these outfits. Oh my, yes! Our's were slightly soiled.

#### Question of Victor

Complications have arisen in the dual swimming meet with Loyola that was featured in this page last week. Tech claims victory by virtue of a 33-31 count while Loyola thinks the score was 34-28 in their favor. Until such time that the News can assemble all the material and facts at hand no definite statement can be made.

### One for All and All for Rossing

Harvey Rossing was unanimously elected to captain the 1932 varsity basketball squad at the meeting held last week. Inside dope tells us that seven men have been recommended for major "A's." The record of eight wins and five losses compiled by the '31 team was the best made in many years of competition.

#### One and Seven-eighths Miles

Thursday the varsity medley relay team is scheduled to run in the Bankers' Relays. The relay is made up of the following distances in the order in which they are now: 440, 220, half-mile and mile.

#### Invitation Meet

Saturday afternoon Armour is host to some 30 colleges who will partake in the Third Annual Armour Tech Invitation Indoor track meet. Tech gained an enviable record in this meet last year by scoring twice the points of its nearest rival, Chicago B team. Going through the entire indoor season without a defeat last year gave Tech the title of Mid-West Indoor Track Champions.

#### Baseball Soon

The baseball team has been practicing in the gym for several weeks now. A game is scheduled with Morton Junior College for April 10. At the best the boys can get but a week of outdoor work before this contest. According to the books, the first outdoor practice last year was on April 1st.

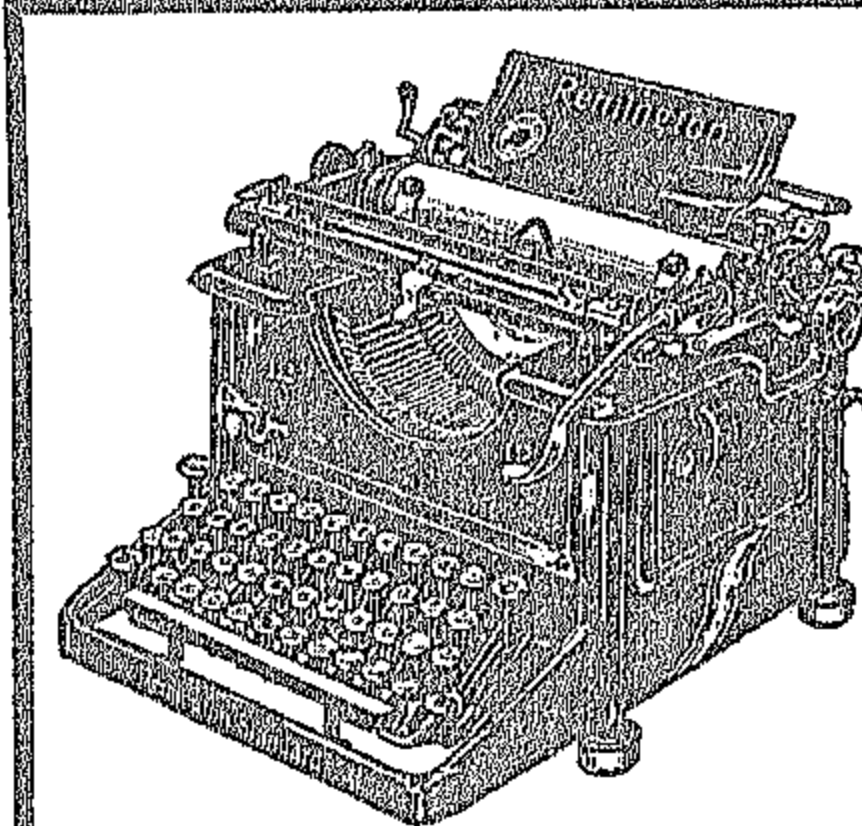
### Wesleyan Swim Meet Postponed

The Illinois Wesleyan boys encountered some trouble in their proposed swimming trip to Armour last Saturday. The meet will probably be held the coming Saturday, March 21st, or else on Saturday, March 28th, at the University of Chicago pool.

With the season now rapidly drawing to a close, the number of remaining meets is few. The aforementioned one and perhaps one with Loyola or Crane are probably the only ones remaining.

The Tech mermen are in good form as can be understood from the victories so far stowed away. Captain Eddie Knox and Jack Cavanaugh are two of the outstanding performers of the year. Eddie, with his eight years of competitive swimming experience, proved a big help to the team. Experience is undoubtedly a big help in swim races, especially in this true in the relay event. As anchor man of a star quartet, Captain Eddie can boast of being influential in lowering the school record twice.

Next year's team promises to be good since there will be only one loss, Captain Knox. The nucleus of next year's squad will then be built around Davisson, Byanskas, Cavanaugh, Carlstrom, Weston and Giovan, all good performers in their respective lines.



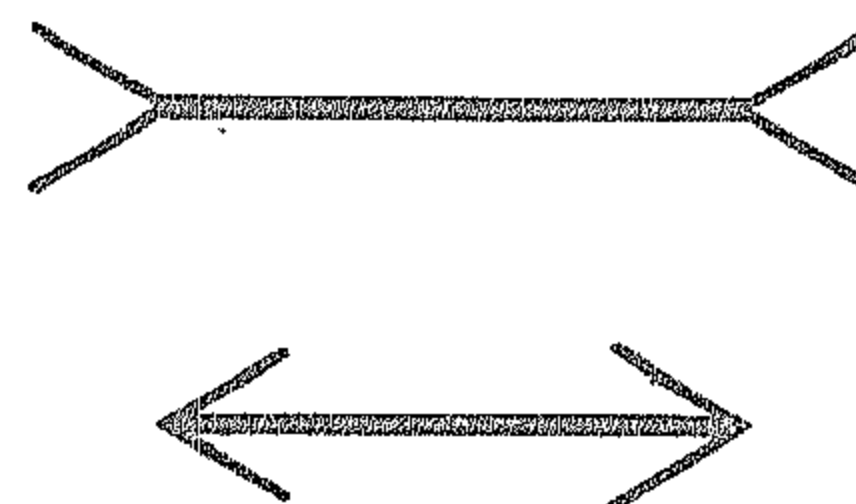
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