



# Armour Tech News



Vol. XV No. 4

Armour Institute of Technology, Chicago, Illinois

Tuesday, March 12, 1935

## SIDELINES

By Paul Schultz

THE HANDWRITING on the wall, as read by some Americans, is that if the United States goes to war again within the next quarter century, it will be with Japan. There is an increasing strain between the two nations which may cause an open rupture at any time. It is high time that both the United States and Japan should look at the issue calmly and squarely.

AS A MATTER of fact, no two countries have less reason for going to war. Although both countries are bounded by the Pacific, there is no real point of friction, either geographically or economically. Japan should remember that the United States, unlike European nations, is not interested in territorial expansion. We are gradually relinquishing our territories. The principal interest of the United States in the orient lies in the peaceful promotion of trade and commerce. As far as the United States is concerned, foreign trade with Europe is practically a thing of the past. Almost every European country owes this nation billions of dollars, and until these loans are paid no new loans will be made. European nations take the position that until new loans are made there will be no trade. Thus the United States must look to Japan and the orient for trade. To date, Japan has paid her loans promptly and has been a good customer for our raw materials. In turn, the United States has been Japan's best customer.

IF THERE IS any friction between United States and Japan it is entirely due to misunderstanding. Japan, on one hand, fancies that the United States has blocked her ambitions in the orient, while the United States has been led to believe that Japan has colonial aspirations on this continent. If this nation has interfered with Japanese colonial enterprises, Uncle Sam has been merely a cat's-paw dragging European chestnuts out of the Asiatic fire. Great Britain, the Netherlands, Belgium, Italy, and France have territorial interests to protect in the orient. The United States has none.

SHOULD AMERICA and Japan go to war, the results could be nothing but disastrous. As in 1918, we would be fighting Europe's battles, and these European nations would use the war as a cloak under which to consolidate their own colonial and territorial ambitions in the orient. The only leader in the orient would be crippled for generations. Nor could America fare much better. To the present back-breaking load of war debts would be added a new debt to keep additional generations of Americans in poverty.

## Next Topic of Math Club Is Nomographs

At its last meeting, the Math Club voted to hold its next assembly at 3:30, Friday, March 22, which is a change from the usual time of 10:30. The paper to be presented at this meeting is on "Nomographs," a subject which should be of universal interest since it is the common engineering method of solving equations graphically.

After the reading of Mr. Bronwell's paper on "The Analysis of Harmonic Motion" last Friday, the meeting was adjourned so that the members could attend the play. Some of them, however, stayed for a brief discussion at which time it was brought out that there are mechanical harmonic analysers at present which will give thirty-two harmonics. There are also machines which will draw the resultant curve when given the separate harmonics. It was suggested by this after-the-meeting group that time for discussion be allowed in the programs for future meetings.

## A NIGHT OF STARS



## Players' Efforts Are Well Received

By R. Weissman

Behind the "Mission" footlights last Friday morning moved characters vividly portrayed by the Armour Players, who gave two splendid productions. In the first play, "The Boor", the impatient landowner who had no use for women, despite the fact that he finally fell madly in love with the beautiful "petticoat philosopher," was played by John Styrsky, a newcomer to the Armour Players, and a valuable addition, if one might judge by his first performance here. The attractive Miss Martha Naylor, also a new comer, played the part of Elena, a young widow mourning for her husband. She was determined to be true to him forever, that is, at the start. However, when the voluble young man arrived, she did not forget to powder her nose.

The humor in this comedy is not the broad, farcical kind, but rather the sly, insidious, implied humor of a more "digging" type. Her determination to be true, obviously weakening from the start, still left in her enough perversity to accept a duel with the stricken landowner, and it certainly seemed for a while that the quick tempered Elena would put an end to her sudden infatuation; but the admission on the part of the hero that he would shoot above her head saved the day. The real finishing touches were made when Gregory was ordered to leave, (Continued on page 3)

## A. S. M. E. Smoker Will Be Held on March 19

Next Tuesday, March 19, the members of the student branch of A.S. M.E. will hold a smoker in room "D" Mission. Refreshments will be served and the entertainment will include three fifteen minute talks by members who are competing for the honor of representing Armour at the national meeting to be held in Chicago in April. All senior, junior and sophomore mechanicals are invited to attend. A nominal fee of 25 cents is charged to help defray expenses.

## Spring Will Blossom On Heads of Loyal Freshmen Monday, March 18

Not because of the laws of nature, but because of the rules at Armour, little green things will magically appear on the morning of March 18. These "little green things," apologetically dubbed "caps," will be seen resting on the very top of every (?) freshman's head.

In an effort to eliminate any possibility for enmity between the freshman and sophomore classes, it has been suggested that the persuasive methods to be used should differ widely from those applied during the previous semester.

Dean Heald has suggested that a meeting be held during the next week in order that the leaders of the freshman and the sophomore classes might decide upon some definite procedure to be followed in order to make the green-cap wearing class-wide. For, basically, the wearing of the green caps should be considered an honor, and consequently the freshman class itself should see that all of its members wear the markers. The members of the class who do not wear the symbol merely show disrespect for class spirit and, logically, should be attended to by the loyal members of the class of '38. If the class as a whole doesn't put forth the

spirit or strength necessary to enforce the custom, then it is simply a reflection on the class's spirit, fellowship, and team work.

It should not be necessary that the sophomore class engage in a brawl in order to impress the idea on the mind of one freshman. These brawls become especially tiresome when they occur daily. They influence not only those participating, but they also have the tendency to give any chance visitor an impression that is not altogether favorable. So for the good of the Institute, freshmen are urged to be loyal to their class and wear their green hats.

## Graduation Invitation Orders Being Taken

Copies of invitations to the June graduation were shown to the seniors last week. The invitations have been selected and orders are being taken.

The invitations may be had with leather or paper covers, or without covers. Leather bound invitations will cost thirty-five cents, paper-bound invitations twenty cents, and the sheets alone six cents.

Orders will be taken by departments. William B. Ahern, chairman, has placed a man from each department on the committee. Ahern will take orders from the electricals, R. D. Armsbury from the chemicals, L. W. Biegler from the fire protects, L. W. Davidson from the architects, and W. W. Henning from the mechanicals. All deposits for the invitations must be made before April 1.

## Tantalum and Paper to Be A.I.Ch.E. Topics

A talk on the preparation of paper will be presented in the near future at a meeting of the A. I. Ch. E. The date will be announced later. Dr. C. W. Balke of the Fansteel Products Co. could not be present at the last A. I. Ch. E. meeting, but has promised to give his talk on "Tantalum Alloys" at a later date. Plans for a smoker are also being formed.

## SEVENTH ANNUAL TRACK AND RELAY CARNIVAL TO BE HELD AT FIELD HOUSE SATURDAY

Nationally Famous Luminaries Attempt Record Smashing Performances; New Markers Due

SEVEN BIG TEN SCHOOLS ENTERED

Those students who have applied for positions on the Armour Engineering staff are requested to meet in the News office at 12:30 Wednesday.

The next issue of the Armour Tech News will be distributed on Wednesday, March 20, instead of Tuesday.

## Report Presented on Shop Courses

Committee Recommends Shop Work Be Given

The News is authorized to announce that shop courses will be given during the school year beginning next September in the third and fourth years. The suspension of shop work does not involve the omission of the subject from the program of any student taking the engineering courses in which the work is required. In the electrical and mechanical courses, two years are required, while in the chemical and fire protection departments, one year of shop (in the senior year) will be given. Since the chemicals and fire-protects of the present junior class have had one year of shop, the program for these departments will not go into effect until 1936.

## Shops Recommended

The report may be summarized as follows:

Shop courses are included in the curricula of most colleges of engineering. Deans of engineering, the faculty, the Tau Beta Pi graduates of Armour Institute, and a representative group of officers of important industrial organizations are, by large majorities, of the opinion that shop work should be required in certain specific engineering curricula.

The committee recommends that at Armour Institute shop courses be required in the case of students of mechanical, electrical, chemical, and fire protection engineering, and that they be listed as electives for students of civil engineering and of engineering science.

Shop courses should be directed by an engineer who will be able to coordinate these courses with other subjects included in the curriculum.

## Objective of Shop Courses

The objectives of shop courses are defined by the committee as follows: the development of knowledge of shop machines and processes; the development of knowledge of properties of materials used in shop practice; and (Continued on page 5)

This Saturday night brings one of the greatest gatherings of sportsdom—the 7th annual Tech Relays. Like the world awaiting the sunrise, Armour looks forward each year to this event that brings together men prominent in track and field. The carnival, only four days away, will be the biggest and the best that Armour has attempted, with more than 35 colleges and universities competing. To be sure of having plenty of room for this affair, the fieldhouse of the University of Chicago, home of the Tech tracksters, has been chosen.

Though the main meet is in the evening, preliminaries will be run off at 4:00 in the afternoon so that only the fastest will be able to show their prowess during the games. The dashes, high hurdles, and low hurdles will be run to the finals in the afternoon because there are so many entrants in these events. But the biggest doings will start at 7:30 in the evening, when the high jump, pole vault, and shot put start off the program. As stars in these events will be Murphy of Notre Dame, who can jump over 6 feet 7 inches, and Elser, also of Notre Dame, who has put the 16 pound shot more than 50 feet.

The relays, dashes, and finals in the hurdles will start at 7:30 and continue till a little after 10:00. Moore, of Purdue, and Farley, of Northwestern, will be in the mile for a real race as each can do better than 4:25 in that section. Northwestern has also entered a mile relay team that they are sure will win, besides offering good half- and quarter-milers. Jessel, from Marquette U., is running the 440 and the dash and will, in his estimation, break at least one record. This, however, will not be unusual as seven outstanding records were broken in last year's meet.

Coach Stagg as host to all these foreigners will certainly not feel embarrassed if one of his men cops a medal, or if one of Tech's relay teams does what none of its predecessors has done—gives Armour a first in a relay event! In the college two mile relay, Nelson, Faust, Tuma, and either Friede or McGrath will represent Armour. Neal, Rigoni, Dunbar, and Trzyna will each reel off a snappy quarter in the college (Continued on page 5)

## To Hear Talk on U. S. Waterways

At the next meeting of the Armour branch of the W. S. E., which will be held in B Mission at 10:30 next Friday, March 15, Mr. John W. Woermann will talk on the Illinois waterways. Being an engineer for the U. S. government, Mr. Woermann should be able to give some very important ideas on this work. His talk will be supplemented with several slides.

In an informal discussion at the W. S. E. meeting on Friday, March 8, Mr. John J. Schmitt Jr., a former Armour student and a representative of the Housing Service Bureau, brought out that the problem of slum clearance and housing is, for the most part, a sociological and economic problem, rather than an engineering problem.

What to do with the people whose homes and shacks are to be demolished is the real problem. What is the government to do with these people, who at present find it difficult and in some cases, even impossible, to pay their rent of ten to fifteen dollars a month or less; and how will they be able to pay the thirty and forty dollars per month for the government apartments?

## THIS WEEK

Tuesday, March 12 to Monday, March 18

Tuesday—Swimming; Irving Park "Y."  
Orchestra practice; Assem. Hall; 5:00 p.m.  
Wednesday—Fencing; Gymnasium; 4:00 p.m.  
Thursday—Baseball practice; Gymnasium; 4:00 p.m.  
Chicago W.S.E.; Engineering Building; 7:00 p.m.  
Glee Club practice; Assem. Hall; 5:00 p.m.  
Friday—Armour W.S.E.; "B" Miss.; 10:30 a.m.  
Campus Club Initiation; Club Rooms; 8:00 p.m.  
Saturday—Armour Tech Relays; U. of C. Field House; 7:30 p.m.  
Monday—Green Caps Appear!!



## Armour Tech News

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## The Relays

To those on the staff of a school newspaper, the regular succession of annual events with which they are in constant contact, but which rarely changes from year to year is apt to become a little boring after they have been through it all once. But there are two annual events at Armour that never fail to impress even the newspaper men with their importance. One of these is, of course, Junior Week, the other is the Armour Relays.

That the Relays should be considered of great importance by the *News* is, after all, not very surprising, for it is considered so by all Chicago daily newspapers, and by contestants from universities and colleges throughout the Middle West.

One of the penalties Armour must pay for being a small college with few spectacular activities is a scarcity of popular recognition. We hear the "butcher college" joke too often. The Relays very definitely places Armour in the public eye, and in association with more highly publicized schools, and for this reason alone, if not for the fact that it is a really good show, Armour students should attend it. It is a duty they owe the Institute, and one that is not very hard to pay, since the price of admission has already been collected from every student and it only necessary to muster energy enough to hie oneself to the University of Chicago field house next Saturday evening.

## More Pep, Please

A noticeable characteristic of Armour students is the frequency with which they use the phrase "I haven't time. Of course, where there's smoke there's fire;" holding the pace in scholastic work at Armour does require a great deal of time. But considerably more than half the men in school find additional time for sports, clubs, publications, and the like. Why can't we all?

There's no use attempting to explain it by saying that some need more time for their work than others; some do, of course, but they by no means comprise exclusively the group who belong to no team, club, or publication staff, but who, night after night, pack up their books and depart, to be seen no more until their next class.

Lack of interest, rather than lack of time, explains this thing, and it is not a lack of interest that is prompted by a true appreciation of the littleness and unimportance of college activities, but rather, one that comes of being innately phlegmatic.

College may be a little puddle, but experience has shown that the best men will take a good swim anyway.

## "The Slipstick"

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

The freshman chemistry class missed a lecture last week, because of that Boulder Dam talk. Several of them were complaining that if it keeps up, they won't get their proper sleep.

The Armour Players put on a play about a dress "reversal." They can't fool us. All they did was to go through a rehearsal for their next play.

Regarding the fellow who has been seen around these parts in a black shirt:

*I always wear a black shirt,  
I think I always will,  
It doesn't show a bit of dirt,  
It saves the laundry bill.*

### SCENE FROM LIFE

"My girl has almond eyes and chestnut hair, and her name is Hazel. Boy, she's the nuts."

"Well, my girl walked seven miles last night."

"For goodness sake!"

"Yes."

My girl's grandmother was a Daughter of the American Revolution. The family's been dizzy ever since.

She's got a face that looks as if it had worn out four bodies. I call her Gold Medal, because she's been through the mill. She's a postman's daughter, and I guess I'll letter alone.

### PHONEY PROVERBS

"Where there's a will, there're relatives."

*"Oily to bed and oily to rise is the fate of a man when a fliover he buys."*

"He who laughs last is an Englishman."

*"Take care of your pennies and the Dollars will take care of themselves."*

"A snitch in time saves doing time."

*Little Bo Peep,  
She lost her sleep,  
And didn't know where to find it.  
She went out on a date,  
And came home very late,  
It must have been about four o'clock.*

### HOTEL ME PRETTY MAIDEN

While traveling last summer, I stopped at a hotel in Yahoopittsville, Mich. I asked the clerk if Mr. Dibijic was in. He said, "I'm sorry, sir, there's no one home in the top floor." I said, "Oh, excuse me, I'll ask someone else."

Then I asked him what his rates were. He said, "First floor, four dollars, second floor, three dollars, third floor, two dollars." I said, "I'm sorry, I don't think I'll stay here." He said, "Are our rates too high?" I said, "No, your hotel is too low."

When I looked around, I saw a sign reading:

**"Hotel—No cover charge. We furnish blankets free. This hotel runs automatically with all modern conveniences. All rooms bathless. Hot and cold running water. Hot in summer, cold in winter. Rates after we look 'em over. Blessed are they who expect nothing, for they will not be disappointed."**

In the morning, I spoke to the old colored waiter who brought my breakfast. I said,

"How are the eggs?"

"You can't beat them."

"How are the tongue sandwiches?"

"They speak for themselves."

"How many calories are in this oatmeal?"

"Now, this is a clean hotel."

"This napkin you gave me is full of holes; it's too old."

"Yes sir, it's on it's last lap."

It sure was some hotel.

I asked the clerk if there was water in any of the rooms. He said "There was, but we fixed the roof."

"What is the effect of turning down the parlor light on Sunday night?"

F. P. E.—It increases the danger of fire, due to red-dened cheeks.

Civil—It causes greater compressive stress on the bridge of the nose.

Ch. E.—It causes a precipitation of white powder, which is generally collected on the shoulder.

M. E.—It causes an increased flow of super-heated steam which is allowed to exhaust into the atmosphere as noiselessly as possible.

E. E.—It increases the excitement, consequently causing a greater fluctuation in heart frequency.

Judge: "What were you doing in the place when it was raided?"

Locksmith: "I was making a bolt for the door."

Radio Voice: "We will now hear from Professor Jones on the Advantages of a College Education."

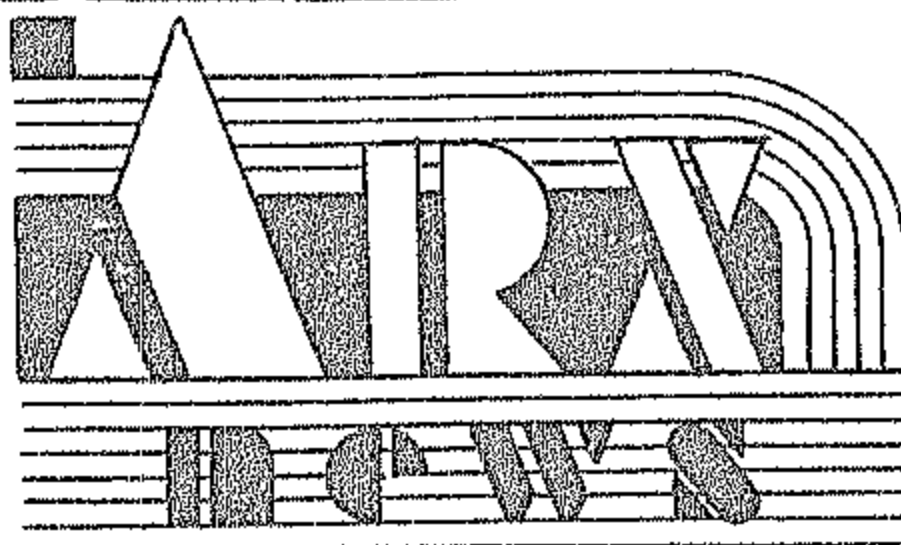
Listener-in: "There they go with another one of those damn mystery stories."

*Don't worry if your job is small,  
And your rewards are few.  
Remember that the mighty oak  
Was once a nut like you.*

"Darn those Lifebuoy ads," said the president of the B. and O. railroad.

Then take moments about "B"~

CON-FU-TSE.



It happened during the last ten minutes of the senior charette for "A Bank for Savings". Charlie SIEGAL is the man up for discussion. And, of all people—Charlie ali but threw in the wet towel. Nothing seemed to click for him that night, and we don't doubt that he was thoroughly disgusted. Well, he actually pulled his hair and sat down on the floor in a fit of desperation. There is no doubt about the fact that if he could that moment have perched on the top-most pediment of the Art Institute, he would have given vent to his pent up nerves and screamed to the ultimate.

The whole incident is quite paradoxical since the very next day a jury, composed of faculty members, Mr. FAULKS, an illuminating engineer, and Mr. NEDVED, of the firm of Hamilton, Nedved, and Fellows, awarded Charlie a second medal. Mel GROSSMAN and Wally SOBEL also breast the tape for a second medal apiece.

One of our more ambitious fellows is Dick "One-pinch" LISCHER. If you won't take this columnist's word for it, just try to recall the classy scenery you've been seeing at the recent Armour Players' productions. Yep, he can really sling a mean cal-somine brush.

FLASH—from New York—Milt KOHN rates a mention on the "Open-air Museum" project, and his fellow class br'ers CONCOLINO, KAPLAN, PFENDT, Van SCOYOC, and VIEHE-NAESS cop half mentions. And now they, and the rest of the juniors, are at work on a new project entitled, "A Kindergarten," which is no child's play.

Ralph EDMUNDS was elected by his class-mates to be massier of the junior class. Ralph was sous-massier last year, and his election was to fill the vacancy created when Ralph PRIESTLEY left school. Consequently, Chick SCHREIBER was made the new sous-massier. These are the boys who will be responsible for giving the department the forthcoming smoker, banquet, and, we hope, another of those sensational ARX dances.

As usual, sincere resolutions were made by the seniors to start out and hit the ball immediately on the new project, "A Research Hospital". It seems that we've heard such determinations before. This time Mr. SUTER even suggested that wouldn't be a bad idea, and that the fellows should try to give themselves at least an even break.

Johnny KOSSUTH claims to be a pitcher of some ability, and therefore intends to give Coach Krafft's regulars some competition. Good luck to you, KOSHY; but don't forget that you're an architect, which means that you have two strikes on you before you start. Still, we can remember when Charlie SOMMER and "Dutch" MORELLI did proudly for ye olde ARX.

EAGLE EYE.

## To Hold Campus Club Initiation on Friday

Initiation of new members of the Campus club will be held Friday, March 15, in the Campus club rooms. Those pledges who are to be initiated are: R. Beardsley, J. M. Birdsong, K. Endert, I. Evanoff, Felt, J. Haase, R. Magnuson, Richter, G. Stober, J. Styrsky, C. Vendley, and F. Westerman.

All students, including freshmen, are eligible to join, and all those joining will be initiated Friday evening. The initiation fee is two dollars, and the dues are one dollar per year. The initiation committee is composed of W. Waite, E. May, J. Galandak, and N. Dushek.

A professor of Psychology at Boston university has banished notes in his courses, declaring that they substitute the hand for the head and in the end offer a very poor reproduction of the lecture.

## CAMPUS ALBUM



## Contest Winners to Be Given Cash Prizes

Several cash prizes, which range as high as 50 dollars, await ambitious literary artists. These awards are to be given for the best themes on the subject, "The Value of German in Research." This contest is sponsored by the University of Chicago, and all students are eligible to compete. The theme should not exceed 3,000 words in length and may be written in either German or English. Intentions to compete in the contest should be filed with Professor Fischer, who will impart further details, not later than Wednesday, March 13.

## STUDENT MUSINGS

### LAWYERS

This essay is going to be a great rebuke to the lawyers, because it is going to tell all about them in 400 words; whereas, a good lawyer cannot get through the preamble of an indictment for chicken stealing in less than 1,000 words, many of which are as long as a bull snake.

A lawyer is a passenger to prosperity on the wheels of justice and he usually rides alone. He is the only man who can examine a law and tell what it means without making a chemical analysis. This is because all of our laws are made by lawyers. A lawyer gets \$7,500 a year more or less, and mileage for making laws, and \$50,000 a year for telling what he meant when he wrote them. And if he is a particularly fine lawyer he can afterwards earn \$200,000 a year by demonstrating to the Supreme Court that they are no good anyway.

It is a lawyer's business to protect mankind against villains, reformers, justice, injustice, and other lawyers. For this he receives a retaining fee which is a sort of financial tie rope to keep him from going over to the other side. After the case is over he receives another fee. This is not fixed by law, but it is rarely more than the client should be able to pay in a lifetime if he practices economy and does not go to law again.

Lawyers are wise and use hundreds of heavy imported words which the ordinary man could not even lift. Law books are written in large percheron words which prevent common people from meddling with them and reading what doesn't concern them. The Bible was originally published in this manner but was translated later, and this is what will happen to the law books some day. When this happens, lawyers will no longer be able to stun a trembling client with a certiorari, mandamus, res adjudicata and other jagged verbal junk, and the Supreme Court will find time to go fishing twice a week.

Some lawyers are very honest and will not lie except to the jury. Others are not so particular. It is easy to tell if a lawyer is honest or not by the size of his fee. If he leaves the client anything after he has won a judgment from him, he is either honest or so careless that he is a reproach to his profession.

P. S.

## Letter Box

### More About Dances

As a result of the editorial, *Class or Classy Dances*, in the March 5, 1935 edition of the *Armour Tech News*, considerable discussion and hard feelings have once again been stirred up.

Referring to the free bid situation for each member of the four social committees, it is evident that the editorial writer has been misinformed as to the existing conditions. In the November 27 issue last year, during the time when the seniors were drawing up plans for their dance, the *News* published an editorial, *The Free Bid Situation Again*, congratulating the senior class upon their decision of this question. This decision, i.e., that free bids to each class dance should be given to only the members of the social committee sponsoring the dance and the faculty sponsors of the dance, has been adhered to by each class throughout this entire social year.

Referring also to the cost of Armour dances, a question which everyone thought had hitherto been discussed and settled, it is quite evident that the writer of the editorial has never served on a social committee. For this reason, he knows nothing of the problems which confront such a committee in regard to selecting an attractive ballroom which is not only centrally located but also within the means of the class treasury, the choice of bids and programs that will add to the novelty of the dance, the booking of an orchestra that has a name, and also the setting of a price for bids which is in accordance with the dance and which will be within the means of those socially minded.

In our estimation, this editorial was entirely out of place and has not only served to misinform the student body of the work and of the cooperation of the social committees in presenting a good dance, but has also caused an unnecessary ill feeling between the student body and the social committees.

Sincerely yours,  
The Junior Social Committee.  
Chicago, March 9, 1935.

## Buildings Emptied in Two Minutes in Drill

Armour students abandoned their scientific pursuits for a few minutes last Tuesday for the first fire drill of the year. The main building was emptied in two minutes, and the other buildings in less time. Students crossed the streets quickly, and, in general, showed excellent discipline and cooperation during the drill.

A feature of the drill was the gym class, which was attired in scanty fashion. Everyone cheered as they issued from the building looking sheepish, and folding their arms across their nearly bare chests.

The physics classes were inspired by the drill to speculate on the number of holes required in a siren to produce such a wierd note. Some fellows even went so far as to calculate the number of holes.



## Woman to Speak at W.S.E. Meeting

Proving that all engineering is not accomplished by men, the Chicago Junior section of the Western Society of Engineers has chosen a woman to speak on "Pre-Construction Problems of Housing" at the next meeting on Thursday, March 14. She is Miss Elizabeth Wood, Executive Director of the Metropolitan Housing Council, which has charge of the three large reconstruction projects now under way in Chicago.

The social and economic phases, rather than the strictly technical side of the rehousing program, will be covered in this talk, which will be given in Room 1200 of the Engineer's Building, 205 N. Wacker Drive, at 7:00 o'clock.

### Kadic Presents Paper

Planned progress, as applied to national recovery would, if practiced in the past, have saved the country a major portion of the five billion dollar work relief bill now before Congress. This was one of the points brought out by Irving J. Kadic, of the Illinois State Planning commission, in his paper on "New Frontiers," presented at a meeting of the Western Society of Engineers on March 7.

The pioneers were taken by Mr. Kadic as the prototype which set the standards and ideals of the early American nation. With a real physical frontier ever before them, they were forced by conditions to be extremely individualistic, but were nevertheless bound together by the aspiration to "conquer the continent." The constant urge of the pioneers to expand was not satisfied until their border disappeared forever, in the Pacific.

### Bridges Burned

With the pioneers' border definitely gone, we have yet to provide a satisfactory substitute. History will probably show that the last one hundred years have covered the efforts of more than five hundred years. A people with this tremendous record at its back is now in the position of a man who sees that the road he is following to some unknown and unseen destiny is dropping into a valley of complete blackness. To go ahead seems dangerous; to lag behind is to invite the fate of stagnacy that overtook the Roman and Persian empires.

If the country is to move forward, as its heritage cannot but require it to do, it might be pointed out that the extreme measures are in the direction of communism, but even such extremes are preferable, to the American people, to the alternative of fascism, according to the speaker.

### Social Problems Increasing

With the tempo of the people moving in the direction of a frontier, it seems highly probable that our new frontiers will be in the direction of social advantages reaching more people. We are already recognizing this in smaller agricultural units, where the principle is coming to be recognized that if a man settles on land so poor that it will not support him, he will eventually become a public charge. This idea is also being expanded to other lines of endeavor, the responsibility of individual and state becoming more definite as their functions are realized.

The problems met with by engineers, who set out in the new social relations, are found to be surprisingly different from those of engineering practice. Whereas the engineering conditions may be isolated and all the reactions determined, the economic structure is so closely knit that any change made, in agriculture for example, makes itself felt in a dozen other fields and in other countries. In addition the engineers' problems are fairly static, while those of our political organization are constantly and rapidly varying.

### Balance Needed

We may, perhaps, best come to solutions of these economic problems by attempting in some way to strike a balance. One of the crying needs for some new technique is the paradox of many people being without manufactured articles which they need, while at the same time, the workers who would produce these goods are unemployed.

Cooperative endeavors seem to be a very healthy sign of movements in the right direction. One organization, the National Resources Board, gave considerable service to local groups which were reorganizing their local governments. Another, the fam-

## Railway Exhibition Is to Open at Coliseum

New appliances for the construction, maintenance, and operation of railways are the attractions at the twenty-fourth annual exhibition of the National Railway Appliance Association which opened yesterday at the Coliseum.

The exhibition is being held in conjunction with the annual conference of two important engineering bodies: The American Railway Engineering Association and the Signal Section of the American Railway Association. These sessions, as well as the exhibition, will last four days, March 11 to 14.

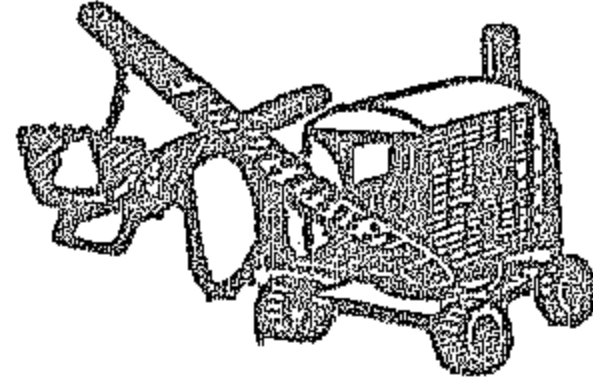
Students of civil engineering will be especially interested in the show for here they can observe the practical applications of the theoretical knowledge developed in the class room.

Free passes may be obtained by the civil engineering students from Professor Stevens, while the Dean's office has passes for distribution to other departments. Either individuals or groups of students may attend.

ous Agricultural Adjustment Administration, has covered remarkable territory in getting farmers to cooperate with their neighbors in an endeavor which they felt to be to the good of all.

The many schemes of setting up new ideals and frontiers require men for administrative positions whose functions are such as belong to the engineer. Together with public utilities, these new fields of public service and planning hold the greatest promise of employment in the future of the engineer.

## THE STEAM SHOVEL



Honorable mention for sharp-shooting goes to "head-hunter" SPRAGUE for capture of a ferocious bewhiskered mouse in D-Mission Friday.

SAM BIBB'S 9:30 class is going to derive the equation for the curve in the part in his hair. It ought to be easy because it remains constant from day to day.

WANTED: by W. J. BOLZ A blonde living within a mile radius of Irving and Ashland. He offers his good looks, pocket money, a car, and personality. Gold diggers need not apply. (He has a coat and hat too.)

MISTER WM. R. HEINTZ seems to be a member of the Fascist silk "Black Shirts." It's probably because there's a close resemblance between it and our famous atmosphere.

And DOC STYRSKY, the famous lover, claims that he owes everything to PROF. HUNTLEY. It was from him that he learned that they neck before they yield.

What has become of the "Broken Beaker"? Has this Senior Schmier award dropped from circulation forever? If not, why hasn't Al Lauchis received it? It isn't everyone who has calcium carbonated the whole Chem Engineering lab—and

## New Isotopes Found by English Scientist

Professor F. W. Aston of Cambridge University and former Nobel Prize winner, announced the discovery of twenty-odd isotopes of chemical elements to the Royal Society of London. His discoveries are the result of several years of precise spectrographic work on a dozen elements.

The record of isotopes kept by Professor Aston shows that two hundred and forty-seven isotopes are known, from seventy-nine of the ninety-two elements.

The new isotopes are those of cadmium, calcium, carbon, gallium, hafnium, indium, iron, nickel, rhodium, silver, thorium, titanium, and zirconium. They were discovered by the use of the mass spectrophotograph, which is an instrument that serves as a delicate balance for weighing the elements.

Professor Aston also announced the discovery of rays emitted by hafnium, thorium, and rhodium.

It is believed that there are stable atoms for every whole number atomic weight from one to two hundred and ten.

even dripped over into the Frosh Chem lab.

P. S.—Al surely looks pretty with mop in hand and pants rolled up—ready for action.

When GUNDERSON, LEWIS, MARTY, and MULLANE were little boys, they never realized that they'd have such good facilities for playing "choo choo train" as they found in the senior chem. lab.

"Now take a piece of cast iron," said PROF. CARPENTER as he pulled out his watch.

## PLAYERS—

(Continued from page 1)

and then called back, only to be requested to exit again by the indecisive Elena. The poor obsequious servant Luka, played by John Spero-poulos, could most certainly have fainted in a heap when he saw Elena in the arms of the impetuous Gregory at the end of the play.

To us, the performance of "The Boor" was highly satisfactory and the appreciative audience will certainly welcome Miss Naylor back should she appear in another play here.

In between the acts the audience was entertained in true style by Bertram Heine and his accordion.

To the audience, it appears easy to give a play; but little thought is given to the weary hours spent at rehearsal or the work of the production staff. The electricians, stage hands, and scenic designers spend many an hour in dismal oblivion so that the players may do their bit under the most favorable circumstances possible. Joseph Kichaven, Richard Lischer and Michael Pantone worked patiently into the wee small hours of the morning putting on the finishing touches. The admirable scenery was done by Lischer and Kichaven, who appeared in Dress Reversal as scene painters. Pantone did not appear before the audience.

The second play, "Dress Reversal" was an openly uproarious comedy, and it disclosed some of the woes of Professor Hendricks, who directed both these comedies. A group of actors are putting on a dress rehearsal, but alas! The bell won't ring, the gun won't shoot, the lines are not learned, the cues are missed, the actors come and go "like ripples in a stream," and the woe-begone di-

rector, played by Sydney Miner, who can take plenty, finally faints away after "helpful little Horace" is plastered all over the floor by the butler. Tom Jones in a cutaway coat and undershirt—he wanted to keep the boiled one clean—as the butler, kept up the suspense throughout the play. We wondered if he really would reach ten counts.

Budd Sills and Bill Emmerich, who took the parts of two buxom young ladies, merited an affirmative answer to the question of Sills, "Ain't I something, huh?"

## Concert Given Last Friday for Y.W.C.A.

Last Friday night the one hundred members of the Armour Tech musical clubs presented a concert at the McCormack Y.W.C.A. at Dearborn and Oak streets, Chicago.

The Glee Club presented many of those numbers which proved popular at other engagements. Their program included: "Dear Land of Home," by Sibelius; "Sylvia," by Speaks, "Pop Goes the Weasel," and a group of three negro songs: "Plantation," "Sleep Kentucky Babe," and "Swing Along."

The Orchestra presented "Light Cavalry Overture," "In a Persian Market," and that delightful tone poem of Kettelby, "In a Monastery Garden."

R. Dalton sang "Gypsy Love Song," accompanied by G. Ormsby at the piano and against a background of humming by the Glee Club.

H. Hale gave a tenor solo "At Dawning." He was accompanied by piano and violin.

After the concert an informal dance was held with Del Campo and his orchestra supplying the music.

I'll never let you down

I'm your best friend

I am your Lucky Strike

There's nothing friendly about the sharp, bitter sting of unripe top to-bacco leaves. There's nothing friendly about the grimy, flavorless bottom leaves. But there's a wealth of friendliness, of mildness in the rich, mellow-ripe center leaves. And I am made of these fragrant, expensive center leaves, only.

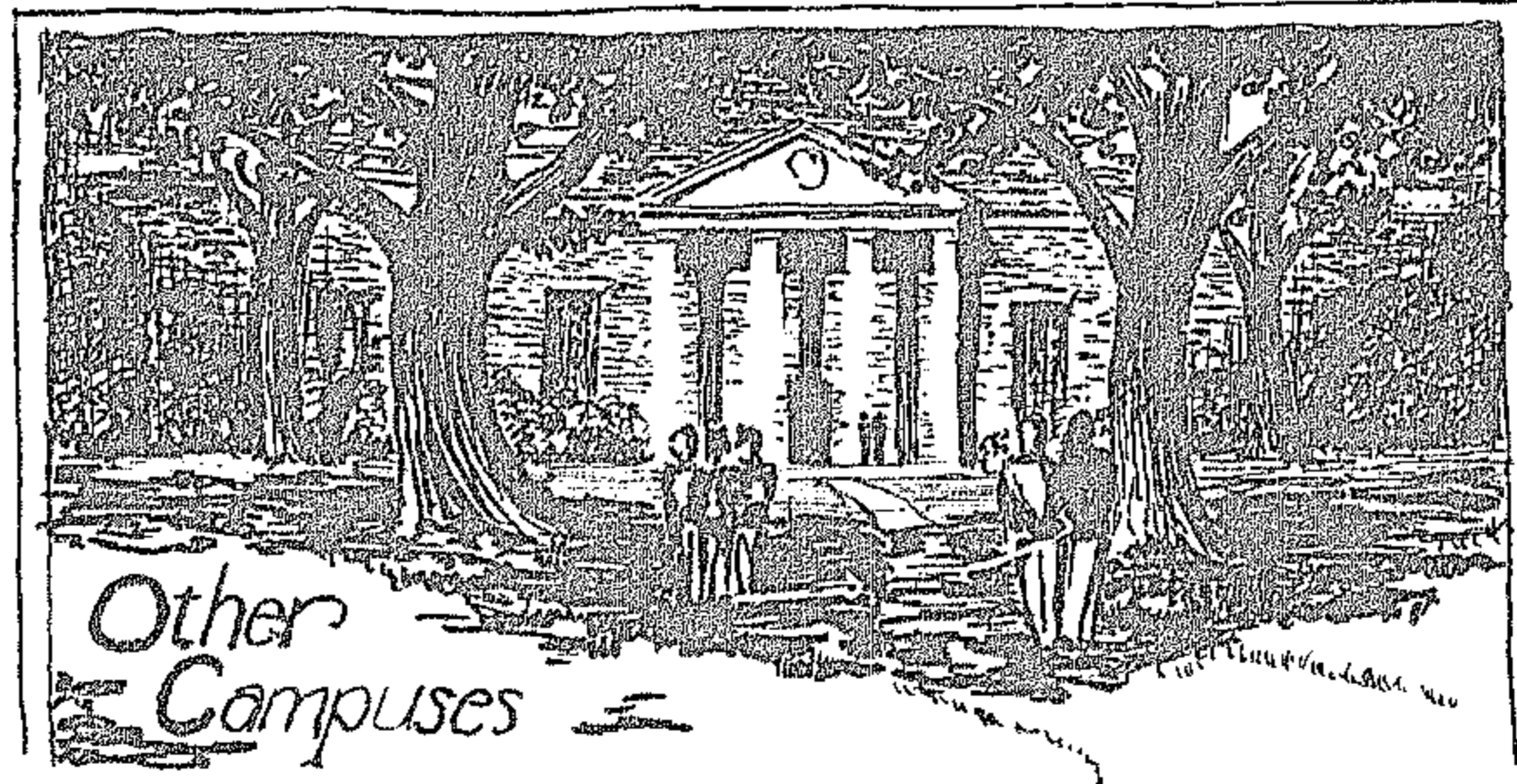
I'll not irritate your throat. I'll never let you down. I'm your best friend. I am your Lucky Strike.

LUCKIES USE ONLY THE CENTER LEAVES  
CENTER LEAVES GIVE YOU THE MILDEST SMOKE

They Taste Better

Copyright 1935.  
The American Tobacco Company.





By John K. Morrison

At Northwestern university 38 per cent of the student body is employed in part-time jobs, according to a recent survey conducted. Of the 4,227 students in the undergraduate departments, 1,202 students are partially self-supporting while 431 are paying all of their way. Of the 1,202 working students two hundred and ninety-three are women and 909 are men. Jobs which the students are filling range from the commonplace to the unusual.

A silver sugar bowl made in London in 1830 is the permanent trophy for winners of the annual "Sugar Bowl" battles. The winner each year will retain the trophy for a year and will get a replica for permanent possession.

At Columbia university eight men have gone in for a new activity—knitting. They have named their club Knita-Nata-Nu.

Ernest Sutter, third brother in a famous tennis playing family, will make his debut at Tulane university this spring as a member of the tennis team.

Cornell's football players of 1890 were the original iron men. . . . They played Union on Monday, Williams on Tuesday, Harvard on Wednesday, Amherst on Thursday, Trinity on Friday, and Wesleyan on Saturday.

"What fraternity do you belong to?"  
"Oh, I have a low average. I belong to the Mystic Knights of the C."  
The De Paulia.

Seventy per cent of the men at the University of Illinois ordinarily wear no hats, according to a survey by the Daily Illini, student newspaper.

Much consternation was registered by members of the Purdue student body when President E. C. Elliot, director of the university's destinies, walked in one of the popular refreshments rendezvous one evening. All fears were allayed, however, when Dr. Elliott stepped up to the bar, ordered a coke, drank it and left without batting an eyelash.

One man who feared that he could cut his shirt upon his bet. A Harvard chemistry professor kept his word to mutilate the garment by dissolving it in acid, neutralizing the acid with a base, filtering out the precipitated material, spreading it out on a piece of bread, and devouring it.

The likes and dislikes of Texas students reveal a striking similarity in tastes of literature, politics and music and a rather wide divergence in preference of movies and movie actors.

In a poll conducted at Texas Christian university and at Texas A and M the following results were obtained on which both schools agreed:

1. Anthony Adverse was the best book of the year.
2. Students favored New Deal.
3. "Love in Bloom" is favorite tune.
4. Franklin D. Roosevelt is the favorite "New Dealer."

The Texas Christian and Texas A and M students made selections of movies and movie stars respectively as follows: "Barrets of Wimpole Street" and "Viva Villa" as the best movies; and Norma Shearer, Frederic March, Wallace Berry, and Ginger Rogers.

Cornell university had a total of 115 students from 37 foreign countries enrolled in its classes last fall.

Out of 273 honor students at the University of Tennessee, exactly 155 are men. This seems to disprove a statement made in a recent address by a Boston university professor that women are intellectually equal to men.

In a dance held on Jan. 16 at Northeastern university, Boston, Mass., a plan of admission prices was used which is growing in popularity. A general price of one dollar was collected plus taxes on the women of fifteen cents for red-heads, twenty

cents for blondes, and twenty-five cents for brunettes, as well as a charge of two cents for every pound the girl weighed over the first one-hundred pounds. Slim, red-haired girls probably had to go into hiding to escape the financially busted males.

In last year's Oregon-Fordham game, the two gigantic Oregon guards blocked the Fordham kick for extra point by picking up their own center and holding him straight aloft.

## 273.145° C. Below Zero Is Reached

Recently Prof. W. J. DeHaas and his colleagues at the Leyden University have reached a point that is one five-thousandth of a degree above absolute zero.

In order to measure this temperature, it is necessary to use a magnetic thermometer. The professor's method of attaining the low temperatures is directly bound up with the principles of operation of the magnetic thermometer. The theory of the experiment is based on the fact that in chemical salts having random orientation of all their internal unit magnets, there will be less energy in the sample if it is strongly magnetized.

After first cooling special salts to about -271.55° C, the professor further lowered the energy in the sample by subjecting it to a magnetic field. This field is of a concentration of 30,000 gauss. This quality is about 100,000 times as strong as the earth's field.

The quickly applied field was lowered from 30,000 gauss to 25 gauss. This lowering of the field enabled the molecular magnets to resume their normal random positions. In order to swing back, energy was necessary. The only place from which energy was obtainable was the heat of the substance. With the removal of heat energy by the molecular magnets, the substance naturally became colder. Shortly, however, the temperature of the substance began to rise to the temperature of the helium bath. Measuring the rate of radiation by detecting the magnetization, Professor DeHaas obtained a curve

## A.S.M.E. Hears Talk on Carbon Monoxide

Members of the Armour chapter of the American Society of Mechanical Engineers had as their guest speakers at the meeting last Friday, F. M. VanDeventer and C. L. Gauthier of the Cities Service Oil Co., who gave a combined illustrated talk on "Carbon Monoxide as a Contributing Factor in Automobile Accidents."

A group of men working under the supervision of the company have undertaken the task of reducing auto accidents apparently caused by the driver falling asleep. Most of the latter can be attributed directly to the drowsiness and loss of reasoning power which are some of the early effects of breathing carbon monoxide laden air. By means of tests these men have found that the average automobile has a combustion efficiency of only 60 per cent. The unburned gases have a high concentration of carbon monoxide and when exhausted are exceedingly dangerous to the passengers.

In the group of autos tested, 6 per cent were found to contain a dangerous percentage of carbon monoxide in the interior of the car, while 57 per cent contained traces of the gas. In 41 per cent the presence of the gas inside was explained by exhaust leaks, while in some of the others manifold heaters were said to be a contributing factor.

showing the relationship existing between magnetization and temperature. By prolonging the curve backwards, it was possible to deduce that the lowest point reached was just five thousandths of a degree above -273.15° C.

## Fraternity Notes

### DELTA TAU DELTA

Last Sunday afternoon, formal initiation was held at the house. The following men were initiated:

William Laise, '38.  
Fred Engethaler, '38.  
William Hotzfeld, '38.

Last week we succeeded in defeating our worthy opponents, Triangle, in the first match of the interfraternity ping pong tournament. We are now ready to take on the Phi Kaps.

Brother Gallagher has been elected to the position of house president. Brother Davis is now recording secretary.

Next Sunday afternoon the Mother's Club will hold a meeting at the house. A very good musical program has been arranged, and it is expected that a large number of mothers and friends will be present.

### PHI KAPPA SIGMA

Many of the fellows in the house and their girls spent a very enjoyable evening at a bar dance held at Alpha Pi chapter of Phi Kappa Sigma, at the University of Chicago. The dance was held March 2, 1935.

The Mother's Club held their monthly meeting at the house March 3, and had a very good meeting despite the fact that several of the mothers did not attend. Refreshments were served after the business was attended to.

A combination Radio-Dance and Polo-Party was well attended Saturday evening, March 9. The polo game took place at the 124th Field Artillery Armory, and after the games were over the gang returned to the house and held the radio dance.

Brother Bob VanDyke, A.E. '35, dropped around to see the boys last week.

### BETA PSI

Our ping-pong team was victorious in the hard fought battle between Phi Pi Phi and Beta Psi. It was necessary to play 3 matches, as Phi Pi Phi came back in the second round and evened the score.

Due to the fact that the Armour Relays are to be held Mar. 16, we are having a belated St. Patrick's Dance the following Saturday.

William Sidney "Hannibal" Hamlin took time out this last week-end to go home to Joliet and enjoy the fresh air of the open country.

### SIGMA ALPHA MU

Plans for the approaching ping-pong tournament are rapidly being formulated. Our first match is scheduled for tomorrow with Rho Delta Rho.

The alumni dinner has been planned upon for some weeks and although a final decision has not been rendered, it will undoubtedly be held the last part of March.

## Gamma Delta Invites Students to Meeting

Friday, March 22, at 8:15 P.M., the second monthly meeting of the Inter-Professional chapter of Gamma Delta will be held at 1812 W. Jackson Blvd. This society is an organization for Lutheran college students, young men, and young women. Those who are interested are invited to attend. Meetings of this society are held on the second and fourth Friday of each month.

# WE ASKED LEADERS IN WINTER SPORTS:

*"Is this fact important to you?"*

"Camels are made from finer, more expensive tobaccos - Turkish and Domestic - than any other popular brand."

(Signed) R. J. REYNOLDS TOBACCO COMPANY  
Winston-Salem, North Carolina

**FLAVOR!** Jack Shea, Olympic Speed Skater: "Camels taste so good that with me Camels get the nod every time. When people mention my being a cigarette smoker, I correct them and say, 'I'm a Camel smoker.'"

**ENERGY!** "Camel's energizing effect" is a great thing for one who is active," says Paul Thompson, of the world-champion Chicago Black Hawks hockey team. "When tired, there's one thing I want—A Camel!"

**HEALTHY NERVES!** Says Ray Stevens, North American Bob-Sled Champion: "When the last heat has been run, I light a Camel and enjoy it to the full, knowing that Camels never bother my nerves!"

**MILDNESS!** Betty Chase, expert skater, says: "Camels are so mild and appealing! And smoking Camels steadily never tells on my nerves. To me, it's a very important fact that Camels use finer tobaccos."

**VALUE!** "I'm just an interested winter sports fan," says Edward Kent. "But I'm with Jack Shea and Ray Stevens when it comes to smoking Camels! I get a lift with a Camel when I'm low and need cheering up, or when I'm tired. And the fact that tobaccos of a choicer quality are used in Camels goes far to explain why Camels are so mild and pleasing, and never jangle my nerves. It means a lot to me that millions more are spent for the tobaccos used in Camels."



## Trace History of Marine Insurance

Mr. T. Alvin Strahle of the Western Marine Department, Insurance Company of North America, talked to the Fire Protection Engineering Society last Friday. The subject on which he spoke was entitled "The Romantic Story of Ocean Marine Insurance."

As far back as 2000 B. C., Babylon had a form of insurance somewhat of the nature of Marine Insurance. The shipper would place a certain amount of money as a form of wager to protect him against complete loss. If the voyage was successful, he would pay this amount, but if unsuccessful, he would collect for the amount of the wager.

### A Problem of Antiquity

The Chinese had another way of insuring against total loss. For instance, if ten men were shipping goods along the river, they would each hold a tenth interest in each others' property. Then, if one boat was lost, each man would lose a tenth of the value, rather than one man losing all of his goods.

In the time of Christopher Columbus, the captains of ships would throw off part of their cargoes when in heavy seas and would come into port with only part of their customers' goods. Shortly after this, England passed a marine law which prevented such loss to the customer, by placing an equal share of the total loss on the hull and cargo owners.

### Marine Law Apportions Losses

Lloyds, "a very admirable company," originated in a way very much like that of the wager.

Marine Insurance has now developed to a high degree of precision in all ways. The International Marine Law, which requires that losses be equally apportioned, has helped these companies a great deal. Today, marine insurance has reached the stage where it is very beneficial and fair to all concerned.

## SHOPS—

(Continued from page 1)

the development of knowledge of the fundamentals of shop economics and management.

The committee agrees that, so far as actual time in the shops is concerned, the machine shop comes first in importance; that woodworking may properly be eliminated, provided that adequate reference is made to patterns and pattern making in other courses; and that foundry work with ferrous and non-ferrous metals shall involve only a limited amount of time in moulding and in cupola and furnace operation. It is further concluded that, in general, hand operations such as forging, welding, clipping, filing, and pipe-fitting shall require only a small portion of the student's time; that sufficient attention in class rooms, testing laboratories, and shops be devoted to the study of metallurgy and metallography with special attention being given to important alloys, to heat treatment, to hardness testing, and to microscopic structure. In addition to work with the usual standard machine tools, the courses shall include a study of the stamping, drawing, and spinning of metals, a study of the various types of gas and electric welding, and a study of die casting.

### Manual Dexterity Not Included

In this connection, it should be noted that in defining the major objectives of shop courses, the attainment of manual dexterity was not included. Obviously, however, a certain degree of skill will be attained by any student who takes courses of the type recommended, as is the case with any laboratory course, whether in pure science or in engineering. In the study of the shop problem as related to Armour Institute, consideration was given to the fact that a large proportion of our students are graduates of Chicago high schools and have, to some degree, taken shop courses. The plan proposed for our curriculum does not contemplate any repetition of material given in preparatory schools.

Pledging themselves to go to jail rather than fight in the event of war, two hundred Columbia University students, in addition to a score of faculty members, went on record for pacifism.

## Cast Metals in New Uses to Be Discussed

A joint meeting of the American Society of Mechanical Engineers and the Western Society of Engineers will be held March 18 to consider the newest applications of cast metals brought about by the new inventions developed in the past few years. The three speakers, who are all engineers in the metal trades, will discuss the new methods which are becoming more necessary as the ideas of the last few years are being put into production. The first thing that becomes evident with such a development is that the machinery which was adequate at the beginning of the depression has become obsolete during the dormant years of industry.

To consider the new problems of forming and fabricating metals an exhibit is also on display to show modern castings which are unusual in the design of the members and the newer materials being applied to difficult problems.

Those students who have not yet studied the applications of engineering to foundry practice will be especially interested in this meeting, although all Armourites and their friends are invited.

The exhibit of castings will open at 6:45 p. m. on March 18. The meeting proper will start at 7:30 in the main auditorium of the Engineering Building, 205 W. Wacker Drive.

## List 1000 Vacancies With Housing Bureau

The opportunity recently offered Armour students to assist relatives and friends in renting vacant properties is still in force. Although over a thousand vacancies available for the use of those who are being affected by the PWA West Side Housing Project have been listed, there are three thousand families in the area for whom homes must be found.

The Housing Service Bureau, the new agency set up to assist in the rehousing program, has opened an office at 1201 West Taylor Street, Chicago, for the service and convenience of those families residing in the area. The Bureau was organized through the efforts of the Metropolitan Housing Council's Committee on Rehousing Policies.

### Dwellings to Be Inspected

The dwellings listed are being reviewed by the Illinois State Housing Board and the Board of Health, Department of Buildings, and Department of Electricity of the City of Chicago.

Until now the Bureau has confined its activities to the securing of listings of available vacant apartments and houses. Now that its office is open does not mean that the Bureau will no longer solicit vacancy listings from property owners and real estate men. On the contrary, the work of cooperation with owners and agents will be carried on to a more complete degree as it is desirable to secure as great a variety of vacant dwellings in all parts of the Chicago area as possible.

### \$35.00 Is Top

From present indications it appears that the greatest demand will be for dwellings renting for \$25.00 per month or less, no dwelling renting for more \$35.00 will be considered.

In all cases the prospective tenant will be referred to the person holding the keys to the premises. As the Bureau makes no charge, either to the lessor, lessee or realtor, this system will not interfere with the relationship between owner and agent.

We ran across an old classic in the Minnesota Daily that seems worth retelling. "At one college a sorority had been complaining that the fraternity boys next door never drew their shades in the windows of the shower room, which was a continual embarrassment to the young ladies. The dean of women came to the sorority house to take the matter in charge. The girls pointed out their window from which the unshaded window next door was visible. 'Why, I can't even see out of this window,' the dean said. 'Oh,' they answered in chorus, 'you have to stand on a chair.'"

Nebraska has played 364 football games, winning 257, losing 80, and tying 27 for a percentage of 0.696. This is the Cornhuskers' 45th season in the intercollegiate football field.

## TECH SWIMMERS LOSE TO WRIGHT BY 46-29 MARGIN

Well, it happened again. The Armour swimmers, after defeating Wright Jr. College in a previous meet of the season, had hopes for repeating the performance in their next showing, but alas and alack, they were merely hopes! The boys from the north side were out to win and gained revenge for the 40-35 defeat suffered earlier in the year.

### Knaus on Sick List

It seems as if bad luck has dogged the Tech tankmen from the beginning of the season, and with Rog Knaus on the sick list the chances of success in the breast stroke events are hampered to no small extent. From the appearance of the times it is evident that the team as a whole needs some pepping up, and if they expect to make any kind of a record at all, they will certainly have to improve.

Action started in the 160 yard relay with the Armour team of Moore, Rueckberg, Tallafuss, and Ahern, coming in last. Armour should have won, as the Wright team deserved to be disqualified because one of their men started when his leader was two feet from the end of the pool. At the time of this event there were no judges, but due to the protests of the Techawks present, they were immediately picked, and proceeded to keep the remainder of the meet on the level.

### Armour Takes Medley

Throughout the entirety of the day's events Armour garnered only one win, this being in the 180 yard medley. Bernstein, Moore, and Stehman put forth an excellent performance and deserve some credit for winning an event in which they were swimming with a substitute. Captain John Ahern took second in the diving, and Bob Lyford finished out of the points, in fourth.

### SUMMARIES

**160 Yd. Relay**—Won by Wright (Mallers, Shore, Cook and Rollen). Time, 1:21.

**100 Yd. Backstroke**—Won by Miller (W.); second, Horwitz (W.); third, Bernstein (A.). Time, 1:75.

**40 Yd. Free Style**—Won by Miller (W.); second, Moore (A.); third, McGrath (A.). Time 21.8.

**220 Yd. Free Style**—Won by Williams (W.); second, Duerrstein (A.); third, Rueckberg (A.). Time, 2:55.2.

**100 Yd. Breast Stroke**—Won by Liebenman (W.); second, Tess (W.); third, Stehman (A.). Time, 1:21.5.

**100 Yd. Free Style**—Won by Shore (W.); second, Ahern (A.); third, Cook (W.). Time, 1:05.5.

**Fancy Diving**—Won by Colias (W.); second, Ahern (A.); third, Tane (W.).

**180 Yd. Medley**—Won by Armour (Bernstein, Moore, and Stehman). Time, 2:06.

## TECH NINE FACES TOUGH SCHEDULE IN COMING SEASON

Manager Lang's completion of the 1935 baseball schedule, consisting of 14 games, brings to mind the fact that soon the crack of ash against horsehide will be audible to all. The battery-men are working out in the gym and slowly rounding into form; the infielders and outfielders will report for their first practice in the gym at 4:00 p. m. this Thursday, the fourteenth. Less than a month later, April 12 to be exact, the season opens with George Williams as the first opponent.

### Lake Forest Quits League

From the schedule below it is easily seen that Armour faces a tough season, meeting such teams as Northwestern, Michigan State Normal, Chicago, and Lake Forest; but in league competition only Wheaton, Elmhurst, and North Central. Lake Forest has resigned from the league due to her freshman rule which is not enforced at the other schools. Besides the games scheduled below, there is the probability of one with Hillsdale.

### Injury Jinx Prominent

Coach Kraft states that despite the poor outlook at present, due to the lack of good material from last year, and other incidental reasons such as sore shoulders and bad eyes, he expects to put a team on the field of which every Armour man can well be proud. "Armour has always had good teams, and the one this year will do its utmost to uphold the tradition." There is little chance that Bartusek, last year's catcher, will be able to don the protector and mask, due to the injury received last year when a foul ball hit him in the eye. At the best his value to the team is a doubtful quantity. Whether or not Baume, the only returning member of last year's pitching staff, will take his place as this year's mainstay depends on the return to normalcy of his shoulder, sore from arthritis. This arthritis is a result of Baume's tough ball experiences of last fall.

### 8 Lettermen Return

A ray of hope looms on the horizon in the form of Hallihan and Siedenbergh. This battery, pride of the freshman class, is bound to make its name felt in Armour athletic history. Other men, who in Coach Kraft's opinion will probably form the nucleus of this year's battery power, are Dunn and Phillips, catchers, and Dollenmaier and Delve, pitchers. This leaves, however, plenty of room on the squad for other aspiring Hartnests and Warnecks.

The only major-letter men returning this year are Capt. Omiecinski at first, Adamec in the left garden, Lucie Biegler and Lauchiskis in the infield, and the afore-mentioned Bartusek and Baume, battery-men. Phillips, a catcher, and Shewchuck, utility fielder, are returning minor letter men.

## ARMOUR TECH RELAY RECORDS

Event	Record	Contestant	Date
College Two Mile Relay	8:07.9	Illinois State Normal	1934
College One Mile Relay	3:25.9	Michigan Normal	1934
College One Mile Medley	3:33.1	Illinois State Normal	1932
University Two Mile Relay	7:53.2	Michigan State	1933
University One Mile Relay	3:22.7	Pittsburgh	1934
70 Yard Dash	:07.1	Herman (Carleton)	1934
70 Yard High Hurdles	:08.8	Black (Chicago)	1932
70 Yard Low Hurdles	:07.6	Sandbach (Purdue)	1933
440 Yard Run	:50.4	Burns (Butler)	1932
880 Yard Run	1:56.8	Hornbostel (Indiana)	1932
One Mile Run	4:14.1	Brooksmith (Indiana)	1932
High Jump	6 ft. 5 in.	Nelson (Butler)	1932
Pole Vault	13 ft. 5 1/2 in.	Lenington (Illinois)	1933
Shot Put	47 ft. 7 1/2 in.	Davis (Hillsdale)	1933
Broad Jump	23 ft. 10 1/2 in.	Brooks (Chicago)	1932

## BASEBALL SCHEDULE—1935

April 12—George Williams at Armour (Tentative)
April 17—Armour at Northwestern
April 23—Armour at Chicago
April 27—Armour at North Central
April 30—Wheaton at Armour
May 2—Michigan State Normal at Armour
May 4—Armour at Elmhurst
May 8—North Central at Armour
May 11—Armour at Wheaton
May 15—Elmhurst at Armour
May 18—Armour at Michigan State Normal
May 21—Lake Forest at Armour
May 24—Armour at Lake Forest
May 28—Northwestern at Armour

## RELAYS—

(Continued from page 1)

one mile. The medley team will be composed of Nelson, running the half mile; Neal, a quarter; Dunbar, an eighth; and a man to be chosen at today's meet with Elmhurst, in the other dash.

Captain Johnny Roberts will seek honors in the hurdle races and he might be accompanied by George Nelson, if he doesn't get enough running. Neal, among others of the above relay contestants, should enter the 440 yard run, and Bejeck, Rodriguez, and Kulpak are entered in field events.

An interesting feature of the relays is that, despite the six years of competition, all marks have been set in the last three years. Four of the existing records were set last year, four remain from '33, and seven remain as the unbettered efforts of the athletes competing in 1932.

### Champs Return

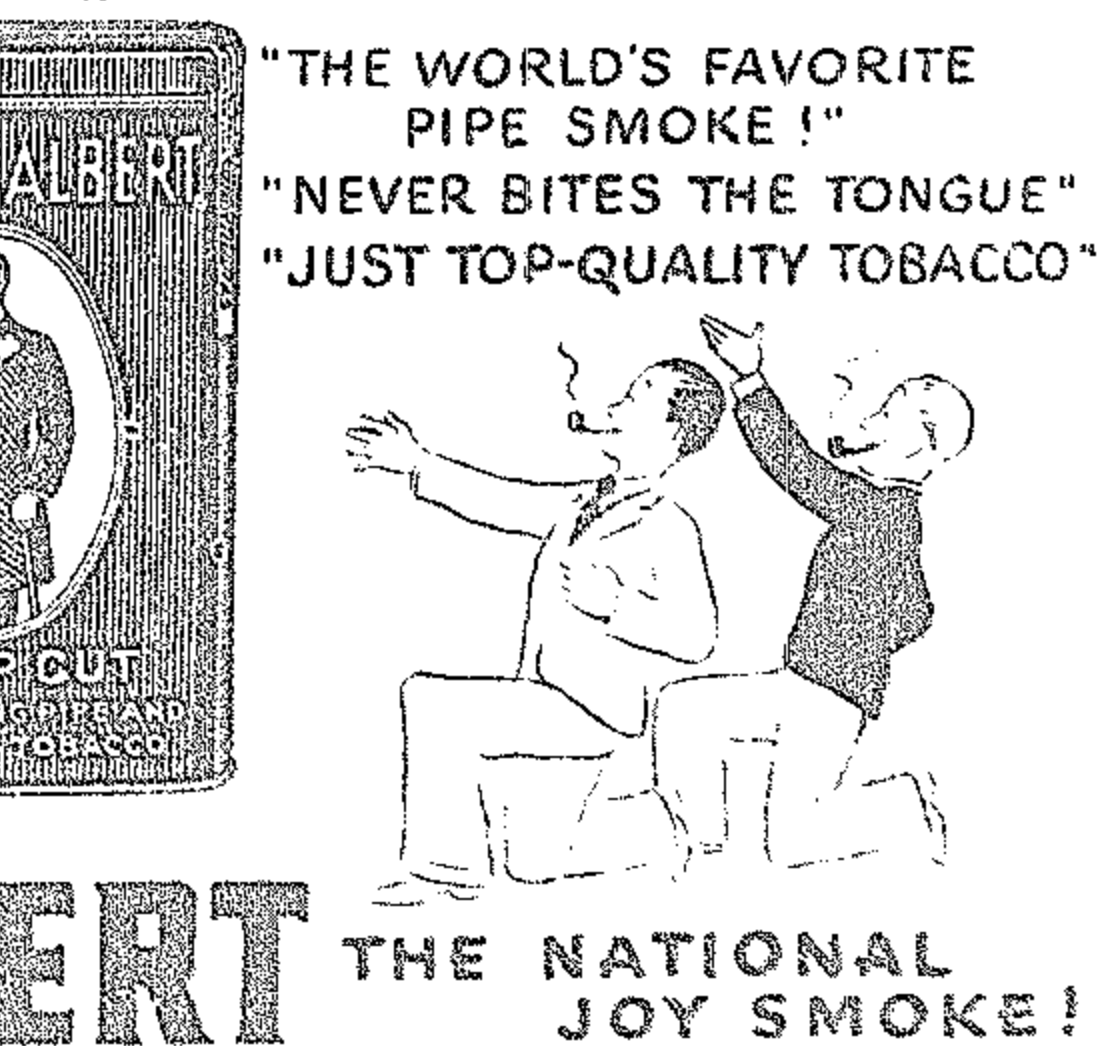
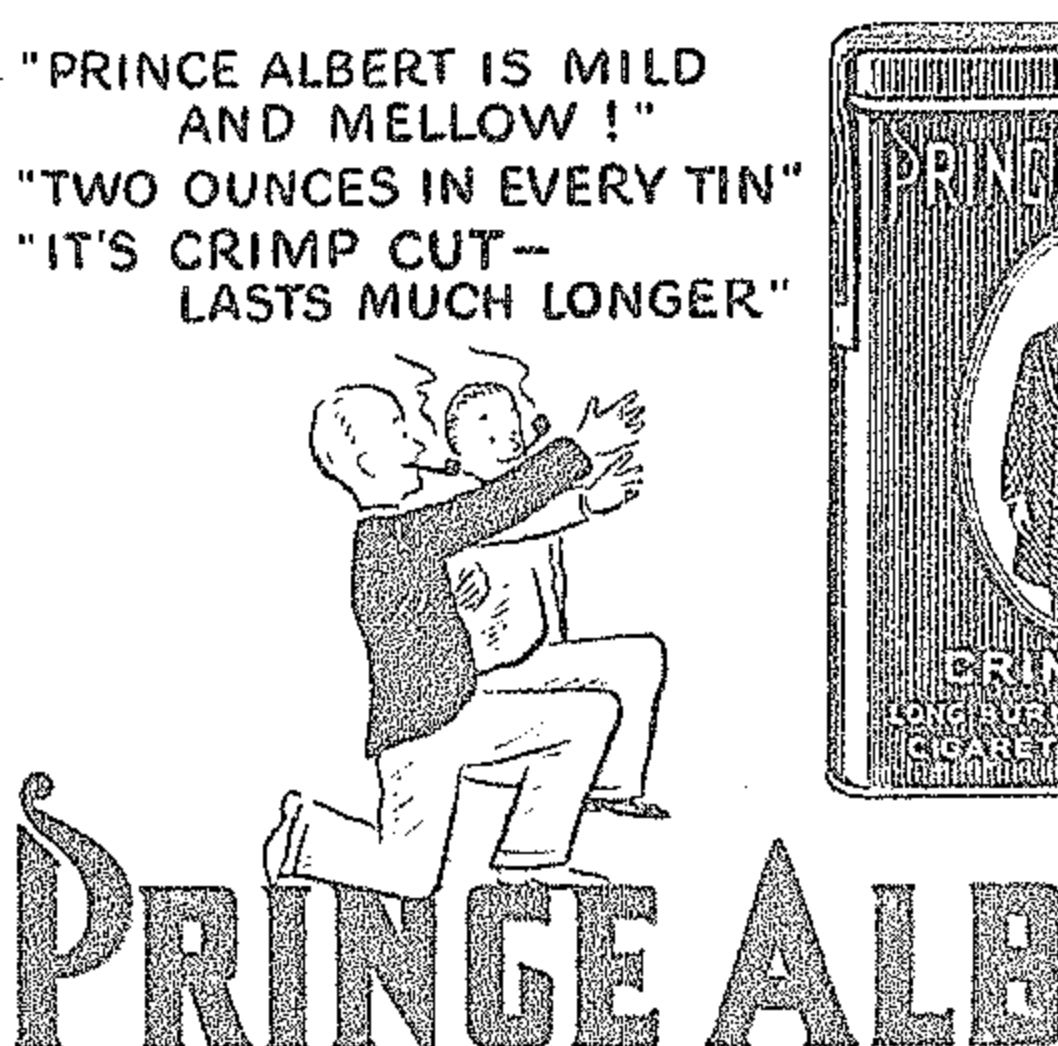
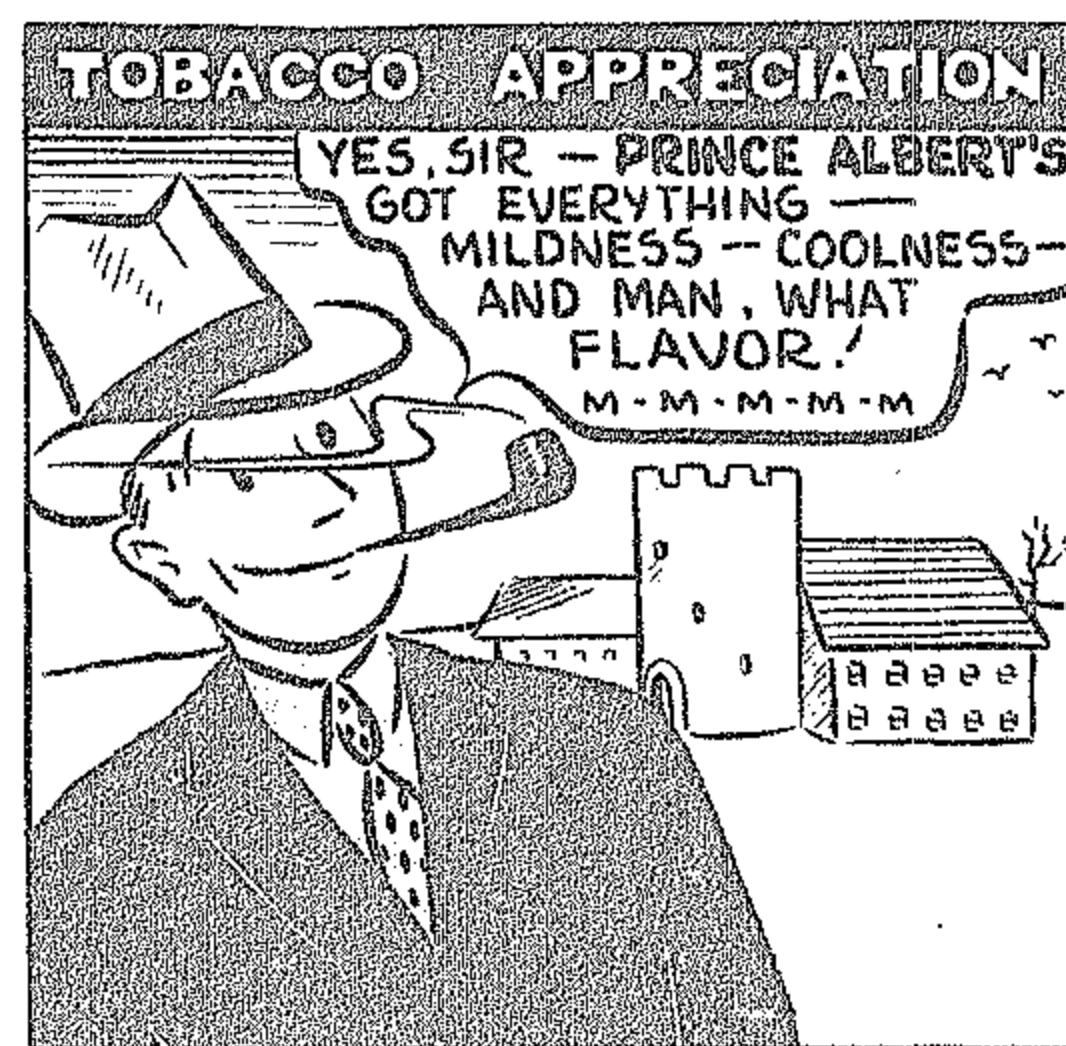
Lowry, star vaulter from Michigan Normal, missed the record by one inch last year, and is possibly the outstanding source of a new record this season. Randall Herman, former Oak Park sprinter, stepped out of seclusion in Carleton brevities to set a dash record last year—and he should be a possibility—at least for a first. The relay event winners remain a toss-up until the big night, since it is too early to predict from this season's work. However, Pittsburgh, Michigan State, and Michigan Normal must be remembered as the big winners last year and all return with defenders for the seventh relays.

It will be of considerable importance for you to come early if you expect to sit, even though more bleachers than ever before are being erected.

### Individual Medals for Winners

Besides all the famous sportsmen, there will be many renowned officials as judges. As rewards, individual medals of gold, silver, and bronze will be given to winners and placers in the events.

Students may use their passes to see the games and can also buy guest tickets here at school for 40 cents. Tickets at the gate will be 75 cents. If you don't think these relays will be good, just look at some of the schools entered: Notre Dame, Wheaton, Marquette, Michigan Normal, DePaul, Bradley Polytech, Purdue, Chicago, Northwestern, Pittsburgh, Illinois, Indiana, and Wisconsin. Don't forget the date—March 16.



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## ARMOUR LOSES TO NORTH CENTRAL IN FAST TRACK MEET

### Cardinals Garner All First Places But One

#### NELSON TAKES FIRST

Having taken first places in every event but one, and having tied for first in another, the North Central track men ran away with a Tech delegation to their fieldhouse by a 75-2-3 to 28-1-3 count last Thursday. Gillette of North Central was the star of the evening, scoring twelve points. Nelson, Neal, and Faust, Armour hopefuls, accounted for five points apiece; half of Armour's total.

#### Faust Loses Close Race

Disappointing as the score may seem, the meet, nevertheless, had its excitement. Faust, Armour star miler, forced the spectators to stand up as he strained his face and caught up with Nelson of North Central, in the last lap of the mile, only to disappoint them by reaching the tape less than a foot behind his opponent.

#### Neal in Tie for First

In the 50 yd. high hurdles Captain Roberts of Armour knocked over the last obstacle, thereby losing his balance and finishing in third place. As was expected, George Nelson captured the half-mile in fast time. After a projected jump off proved futile, Neal of Armour and Gillette of North Central shared a first place in the broad jump.

The Cardinals outstepped the Techawks in the finale of the evening, the 8 lap relay, mainly by their ability to round the sharp curves which characterize their fieldhouse.

#### SUMMARIES

**60 Yd. Dash**—Won by Hartt (N. C.); second, Dunbar (A.); third, Marquardt (N. C.). Time, :06.6.

**2 Mile Run**—Won by Sperry (N. C.); second, Haag (N. C.); third, Faust (A.). Time, 10:41.4.

**440 Yd. Dash**—Won by Dittman (N. C.); second, Bollen (N. C.); third, Neal (A.). Time, :54.7.

**880 Yr. Run**—Won by Nelson (A.); second, Keys (N. C.); third, Misteale (N. C.). Time, 2:08.6.

**1 Mile Run**—Won by Nelson (N. C.); second, Faust (A.); third, Thompson (N. C.). Time, 4:47.6.

**60 Yr. High Hurdles**—Won by Godfrey (N. C.); second, Gillette (N. C.); third, Roberts (A.). Time, :7.8.

**60 Yd. Low Hurdles**—Won by Gillette (N. C.); second, Godfrey (N. C.); third, Roberts (A.). Time, :7.4.

**High Jump**—Won by Godfrey (N. C.); second, Thornton (A.); third, Kulpak (A.); Wood (N. C.) and Stark (N. C.) tied. Height, 5 feet 7 inches.

**Broad Jump**—Neal (A) and Gillette (N. C.) tied for first; third, Roberts (A.). Distance, 19 feet and eleven inches.

**Pole Vault**—Won by Rusch (N. C.); second, Concolino (A.); third, Bristol (A.). Height 11 feet and 6 inches.

**Shot Put**—Won by Nolte (N. C.); second, Dillon (N. C.); third, Roberts (A.). Distance, 38 feet.

**8 Lap Relay**—Won by North Central (Hartt, Marquardt, Dittman, Bollen). Time, 2:33.4.

### Tech Swimmers See Action in Two Meets

Last Saturday the Tech swimmers participated in a quadrangular meet at Milwaukee, Wisconsin. The three other schools entered were the Milwaukee State Teachers College, and Wright and South Side Junior Colleges of Chicago.

To top a crowded week-end, the Techmen staged a return meet with Loyola University on Monday. With the return of Wally Tallafus to the lineup following the removal of a troublesome molar, the Tech chances were equalized because Rog Knaus, another of the team's mainstays, took sick on the date of the South Side meet last week.

## Dollenmaier and Warner Elected to Lead Cagers in Coming Season

With the close of one of the most successful basketball seasons in years, the Techawk basketeers, after the straightening out of all business pertaining to letters, elections, and future appointments, will settle down to a life of ease.

Capt. Lauchiskis and Christoph have played their last games for Armour, but their names will remain engraved in the sports annals of Armour through their valiant efforts and fine sportsmanship.

Eight men have earned their right to major letters and two to minor. The major letter men are Captain Lauchiskis, Al Christoph, Harry Dollenmaier, Gene Heike, Julian Levy, Bob Merz, and Pop Warner. John F. Humiston, as retiring manager, is the eighth man to earn his major award. Minor letters were awarded to Bill O'Brien and Ellis Doane.

#### Bill Succeeds Humiston

William Bill has been chosen to succeed John Humiston as manager of the squad and has begun his duties successfully by ending up with the proper number of suits.

Next year's team will have Harry Dollenmaier and Pop Warner as co-captains—something new in Tech sports history. The team, in their recent meeting decided that the "twin" guards could not be separated.

Roland Warner, known to all as "Pop", has quite an impressive history as a basketball man. Entering the sport six years ago, he placed on the Englewood "Y" team, playing under the same coach who taught Ray Plfum, former Tech basketball captain, the tricks of the trade. Warner was a member of the team when they won the city, county, and A.A.U. basketball championships. While playing with Armour, "Pop" has won two major letters and is slated for a

third. Teamed with Harry Dollenmaier, "Pop" forms a part of the guarding duo that has settled the uncertainty created by Plfum's graduation.

Incidentally, both of the co-captains are juniors in the E. E. dept.

Harry Dollenmaier started his basketball career on the Libertyville high school team. After great success on the hardwood, "Dolly" branched off into other fields of athletics and now belongs to that select group, "the all-around athletes."

Showing his ability to burn the candle at both ends, Dollenmaier went out for both baseball and basketball during his first year at Armour but was forced to drop the former because of a broken finger. Harry has won basketball letters each year and is due for another this season. His persistent guarding has helped to make the combination of "Pop" and "Dolly" cause trepidation among opposing teams.

Albert Lauchiskis, retiring captain of the team, has attained a brilliant record while at Armour. Having been interested chiefly in scholastic attainment while at Marshall high, the "Lugan" did not get an opportunity to go out for basketball until his senior year. On coming to Armour, Al excluded sports during his Freshman year. As

a newcomer to the basketball team he gained the distinction of high point man for the season, and maintained a high place on the scoring column during his three years on the team. Lauchiskis has not failed to retain his scholastic standing despite the time spent in his athletic conquests.



By Art Jens

Editor's note: This issue of the Tech shorts is written by Art Jens '31, who is a former Sports Editor of the News and originator of the column.

#### Seventh Running

Twice each year we are sufficiently aroused from our usual lethargic state to set forth some of the details of Armour's greatest attraction—The Armour Relay Carnival. This edition of Tech Shorts is number 64 in a long line of nonsense written by your correspondent and it should be a pre-view of some of the things that may happen next Saturday. If it isn't, then don't say you haven't been warned.

#### Champion of Champions

The field for this year's meet seems to be the most outstanding of the six preceding meets. Following immediately after the Conference meet and the Central Intercollegiate it may resolve itself into the rubber contest between the victors of both of these meets and the ultimate winners topped with the title WESTERN CHAMPION.

#### Slips Don't Count

When a great athlete begins to slip the concert of "I told you sos" mounts with increasing vehemence. Such is the case of the midnight express of Marquette University and the one jinx runner of the Armour Relays. We mean Ralph Metcalfe who for almost 10 years has been monarch of the cinder path in all distances up to 220 yards. His records created in scholastic, collegiate, national, and international competition can scarcely be equalled—but can they? Already there appears on the horizon several sprinters who are ready to take up the reins controlled so long by Metcalfe. Several lads, Owen of Iowa and Owens of Ohio State seem capable of doing just this. Then too we must not forget Michigan's Willie Ward

who is a superlative performer not only in the short sprints but also in the field events.

#### A Man's Man

We have often thought that Armour's venerable emeritus professor Charles W. Leigh, should be awarded an "A" blanket for his distinguished service to A. I. T. athletics. This would certainly be small tribute for the many years of council and advice Professor Leigh has given to Tech hawk athletic teams.

#### Nine C's Too

One day last autumn while we were browsing through the musty basement of Bartlett gym we came across the picture gallery wherein we saw photographs of all U. of C. athletic teams. Our interest was attracted to the period from 1905-1910 during which time the name Schommer was legend on the Chicago campus. We counted John's features in no less than a dozen of these pictures and under several was the caption "John Schommer, Captain." We then hid ourself to the U. of C. Trophy Room and there we saw the name Schommer engraved on more gold footballs, basketballs, and track trophies than we care to mention.

#### A Long Guess

Relay records are now pegged so high that there is little chance of any wholesale revision of present standards. Notwithstanding this fact we look for slight improvement in the 70 to possibly seven flat, the 440 to less than 50 seconds, high sticks to better than 8.6, high jump to well over 6 feet 6, the iron ball toss to near the 50 foot mark and the broad jump around 24 feet. All of these times and distances are well within the ability of some of Saturday's contestants.

#### Possible World Marks

It may interest you to know that any national or world marks set at the Armour games would be eligible for recognition. The officials of the Relays are duly recognized by national and international associations and their recommendations would be given consideration.

#### You Might Pick 'Em Too

We look for few repeaters from last year. Meagher of Notre Dame looks like the class of the broad-

jumpers and should retain his title. Sandbach, world record holder in the high sticks, will experience plenty of tough going but if his injured leg holds up he should again return the victor. Fleming of Northwestern might repeat his 880 triumph of 1934 but he will have to step plenty fast to do it. Unless Michigan and Ohio appear, Herman of Carleton has our ticket in the 70. Thus we have stuck our neck out and if these men do not come through as expected, well, look us up sometime and we'll tell you why.

#### Ting-a-Ling Ring

One time Ring W. Lardner was asked to write his biography. He did and this was included: "Came to Armour Institute for a mechanical engineering course. Took rhetoric and mechanical drawing and shop work. Passed in rhetoric and quit school by request." You may remember Ring as a famous sport writer.

#### Mosta of the Besta

Many great track athletes have taken part in the Armour Relays. Take a look at this array of collegiate, national, and world champions and see if you don't agree. Let's see now, there was Dale Letts of Chicago, Nelson of Butler, Don Paul of Armour, Gerboth of Milwaukee, Parker of Lake Forest, Brocksmit of Indiana, McCormick of Notre Dame, Fuqua of Indiana, Johnson or Illinois State, Brooks of Chicago, Pongrace of Michigan State, Chamberlain of Michigan State, Beecher of Indiana, Hornbostel of Indiana, Libert of Michigan State, Woolsey of Illinois, Sandbach of Purdue, Sears of Purdue, Lennington of Illinois, Keller of Pittsburg, Ottey of Michigan State, Herman of Carleton, Cook of Illinois, Berwanger of Chicago, Meagher of Notre Dame and Lowry of Michigan State. What a crowd! And they all, at one time or another, vied for the coveted Armour Relay medal.

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