



Armour Tech News



Vol. VII. No. 10

Armour Institute of Technology, Chicago, Illinois

Tuesday, April 21, 1931

LAKE FOREST AND WESTERN STATE IN BASEBALL PICTURE

Armour Team Expected To Win Both Games

TEAM IN CONDITION

If history can repeat itself, Armour will defeat its two toughest opponents this week, when the team clashes with Lake Forest College, tomorrow and Western State Normal on Friday.

Tomorrow's conflict will take place at Lake Forest, while Friday's game will be at Ogden Field.

Western State's recent victory over Wisconsin, a team which garnered six victories before meeting their conquerors, serves as sufficient evidence that the real test for Armour's strength is in store.

Lake Forest Shows Form

Coach Kraft's experience with Lake Forest's teams, likewise shows that an exceedingly good opponent will provide Armour with the competition. Kraft is still somewhat undecided on the matter of picking his staff of regulars. The opening day line-up appeared to be his best bet, but several substitutions in the following games proved to be quite advantageous.

Armour will be assured of good pitching this Wednesday, as Stehno, is Kraft's selection for the mound. There is yet some uncertainty on the selection for Friday's game, but the guess that both Lynch and Stehno will share the duties, is sure to hit its mark.

Lynch's Performance Excellent

Lynch's spectacular performance against North Central College just about solved Kraft's problem of finding a pitching mate for Chief Stehno. If Lynch can repeat as effectively against Western State, he will be welcomed to the Armour ranks for the next three years.

Western State totes a line-up of powerful hitters. Wood, Decker, Denner, Cooper and Thomas of that team have been effective against all hurlers and are undoubtedly determined to continue in the same capacity against our ball throwers.

Armour's showing the past few games produced many items which caused our Coach to express confidence in the team's strength.

When the Krafts men cross bats with Lake Forest, every bit of their offensive power will be in demand. Lake Forest has limited Armour to only a few runs in each of the games played in past years. The game last season was prolonged to 14 innings before the teams finally decided to call the game off with the score deadlocked at 1-1.

Play Morton Monday

Before the next issue of the ARMOUR TECH NEWS is distributed Armour will mix in another baseball game when the team matches Morton Junior College on Monday, April 27. The game was originally scheduled for April 10, but was postponed.

Morton, lacks the baseball reputation that most of the other college teams have, but there is evidence that they do not lack baseball technique. Their last game was played against North Central and turned out to be a 3-1 loss. Outside of failing this one time Morton is pacing along quite successfully.

Following is the probable starting line-up in the Armour-Western State game:

ARMOUR	WESTERN STATE
Moskowitz, ss	Wood, 2b
Pegg, rf	Decker, cf
Robin, 1b	Denner, 3b
Mago, 3b	Thomas, ss
Omicinski, 2b	Swafford, 1b
Michalski, lf	Cooper, ss
Sommer, cf	Mackay, lf
Stehno, p	Neigand, lf
Link, c	Johnson, rf

Honorary Dance To Be Held May 1

Nine Armour honorary organizations are sponsoring a dance which is to be held at the Tower Club of the Knickerbocker Hotel on Friday, May 1. Bob Woodruff, collegiate orchestra of nine pieces will furnish the music.

Tau Beta Pi, Chi Epsilon, Pi Nu Epsilon, Pi Tau Sigma, Phi Lambda Upsilon, Eta Kappa Nu, Honor "A", Sphinx, and Salamander are promoting this affair.

For the first time in the history of school dances something new in the way of decorations and entertainment will be offered. The hall is to be an imitation of a modern night club, and all the embellishments of such a place are included. It is hoped that the police won't mistake the place for a real night-club and spoil the evening by a raid. F. B. Attwood and R. Eddy, who comprise the dance committee, announced that all active members, pledges and alumni are eligible to attend this event. Bids are \$2.50 and may be obtained from the committee or from the officers of the various organizations.

Students Give Talks At A.S.M.E. Meeting

Two themes, widely dissimilar in nature but alike in interest, were presented by H. R. Davis and R. F. Waindle at the meeting of the A.S. M.E. held during the open hour last Friday morning.

Member Davis, using "Electric Tabulating Machines" as the title to his talk, described these machines and showed the many uses to which they may be applied.

Cards about 3"x6" are used to record the data to be tabulated. These may be time cards, production records, or, as used by our government, census material indexes. The system employed is not unlike the use of perforated rolls in operating a player piano, since holes of a certain shape are punched through the cards in accordance with any desired classification. Then when the cards are fed into the machine at random, they are sorted and tabulated at the rate of 75 per minute.

As can be easily seen, information gathered from many sources may be readily filed for reference, thus creating a rapid and flexible means of accounting records. The convenience offered to such branches of industry as cost accounting or charge determining by gas and electricity concerns puts these machines in great demand.

Mr. Waindle in his subject: "The Century of Progress Exposition," chose a topic that was naturally of great interest to engineers in the making. In addition, his audience was made cognizant with many aspects of the fair about which they were ignorant.

Honorary Fraternity Initiates Two Men

Salamander, honorary Fire Protection Engineering Society, held an initiation at the Theta Xi House on April first. E. A. Scanlan, Jr., and G. W. Schodde were the two men initiated. Professor Holmes, J. V. Parker, Fitzhugh Taylor, W. R. Townley, R. M. Beckwith, R. O. Matson, and C. J. Hauch were also present.

The Annual Banquet of the Society was held on April 8 in the Green Room of the Knickerbocker Hotel. There were fifteen men present with Professor O. F. Robinson acting as toastmaster.

ALPHA CHI SIGMA BANQUET

The Armour Chapter of Alpha Chi Sigma, professional chemical fraternity, will hold a banquet Wednesday evening, April 22, at the Y. M. C. A. Hotel. The active chapter will be hosts to the faculty members and the alumni.

POSTPONED FROSH DANCE WILL TAKE PLACE ON FRIDAY

Date Change Effected by Co-operation of All Parties

TO USE SAME BIDS

The Freshman Dance Committee has been rounded up by an Armour Tech News Staff Detective with good results. The first man to be cornered by the detective, inquiring reporter, copy boy and what not was L. A. Callen, Social Chairman. After an hour's interview, he reluctantly admitted that the dance will be held April 24. He then ran off to a class.

B. H. Peterson was found at the track meet last Tuesday. He admitted that Elmer Kaiser was going to play but declined to add to this information.

Amid profuse blushes V. Rimsha said that the place of the dance was the Illinois Women's Athletic Club. He started to tell all about the dance but left out the important facts.

The detectives next encountered L. Lynch, who was asked about the price of the bids. He proved to be a hard man from whom to get information. Like an expert fencer he parried every leading question of the inquiring reporter. But at last he weakened under the third degree, shouted out that the bids would be \$2.50, and ran towards the Armour Cafeteria.

The copy boy then met T. Peavey who started giving out information before any questions were asked. He began by telling how pleased the committee was with the cooperation furnished by both the Illinois Women's Athletic Club and Elmer Kaiser and his band. Both of these organizations agreed to the necessary change of date at no additional cost. This member of the committee also explained that the bids would be the same as originally printed but that the programs were being reprinted. He then asked the reporter what time it was, dumbed something, and disappeared down Federal Street in a cloud of dust.

L. Sullivan was next recognized. But as he had to see a man about a duck in exchange for two bids he could not tarry long.

The class officers: R. Cheatham, D. S. Manson, F. Lowry, and R. Drum were making up a pool to go to the one who sold the most bids. There were three straight pins, one bent pin, and half a broken test tube in the pool. They advised the reporter that there was a chance that all the Freshmen might not get to go to the dance because the upper classmen were scalping the bids.

The reporter left while the four officers rushed a prospect. He, the member of the fourth estate, returned to the news office, put a typewriter and some paper together, and scrawled this article.

Electricals To See Movies On Friday

"Singe Ridge" is the title of a group of moving picture films to be shown Friday at 10:30 at a meeting of the A. I. E. E. in Room D Mission.

The processes of copper wire manufacture, the drawing of the wire and the application of the insulators will be shown in detail. These moving pictures, which will take thirty five or forty minutes to run, are being furnished through the courtesy of the OKonite Wire Company.

ATTEND CRANE CONFERENCE

Dean Penn and Professor Perry attended a conference at Crane Junior College last Friday morning. The purpose of this meeting was to begin a survey of the drawing courses given in the Chicago High Schools.

Whitfield Earns Advanced Degree

Among those receiving degrees at Columbia University this June will be Marshal Whitfield, Ch. E. '30. Whitfield will be awarded his degree of Chemical Engineer, which he won in phenomenal time. The usual time for the earning of this degree is three years. At the same time he left for Columbia, Whitfield promised that he would make the grade in two years. But even this mark he bettered by a full year.

Last year news was received at the Institute that Whitfield had been awarded a fellowship to Columbia University. Along with a letter announcing the award, Professor McCormack received a very complimentary note regarding the esteem that is held for the Armour Chemicals by the authorities at the eastern school. Professor McCormack said at that time that he felt certain that Whitfield would uphold the standards set before him. This he did and went at least one full step better.

Electricals Inspect Telephone Company

Telephone relays, four hundred thousand in number, serving fifty thousand stations, and taking care of three thousand calls per day, were inspected by the Senior Electrical class on a trip last Tuesday, April 14, made to the Wabash Office of the Illinois Bell Telephone Company. The equipment and apparatus at this office cost five million dollars.

The method in which the dial telephone operates was thoroughly explained and the operations traced from the time the subscriber lifts his receiver to the time the call is completed. The use of machine switching was developed and improved at the Bell Laboratories.

The bell ringing generators are run by motors which take either direct or alternating current. This type of motor is used so that in case the a. c. service is interrupted, power may be obtained from batteries, and the telephone operation will continue.

The battery room has a large number of twenty-four and forty volt batteries, which are charged and discharged periodically.

The cables enter through large ducts under the streets. These cables are lead covered and contain from twelve to sixteen hundred conductors. There is ample space left for more racks in case of expansion.

Calendar

Tuesday, April 21

The Institute closed all day in memory of Dr. Alfred E. Phillips.

Wednesday, April 22

3:30 P. M.—Baseball: Lake Forest vs. Armour at Lake Forest.

Thursday, April 23

4:00 P. M.—Baseball games:—Beta Psi vs. Delta Tau Delta. Sigma Kappa Delta vs. Phi Kappa Sigma.

5:00 P. M.—Glee Club practice.

Friday, April 24

10:30 A. M.—A. I. E. E. meeting in room D—Mission.

11:30 A. M.—A. I. Ch. E. meeting in Physics Lecture Room.

3:00 A. M.—Baseball: Western State Normal of Kalamazoo vs. Armour at Armour.

8:30 P. M.—Freshman Informal at I.W. A. C.

Friday and Saturday, April 24 and 25

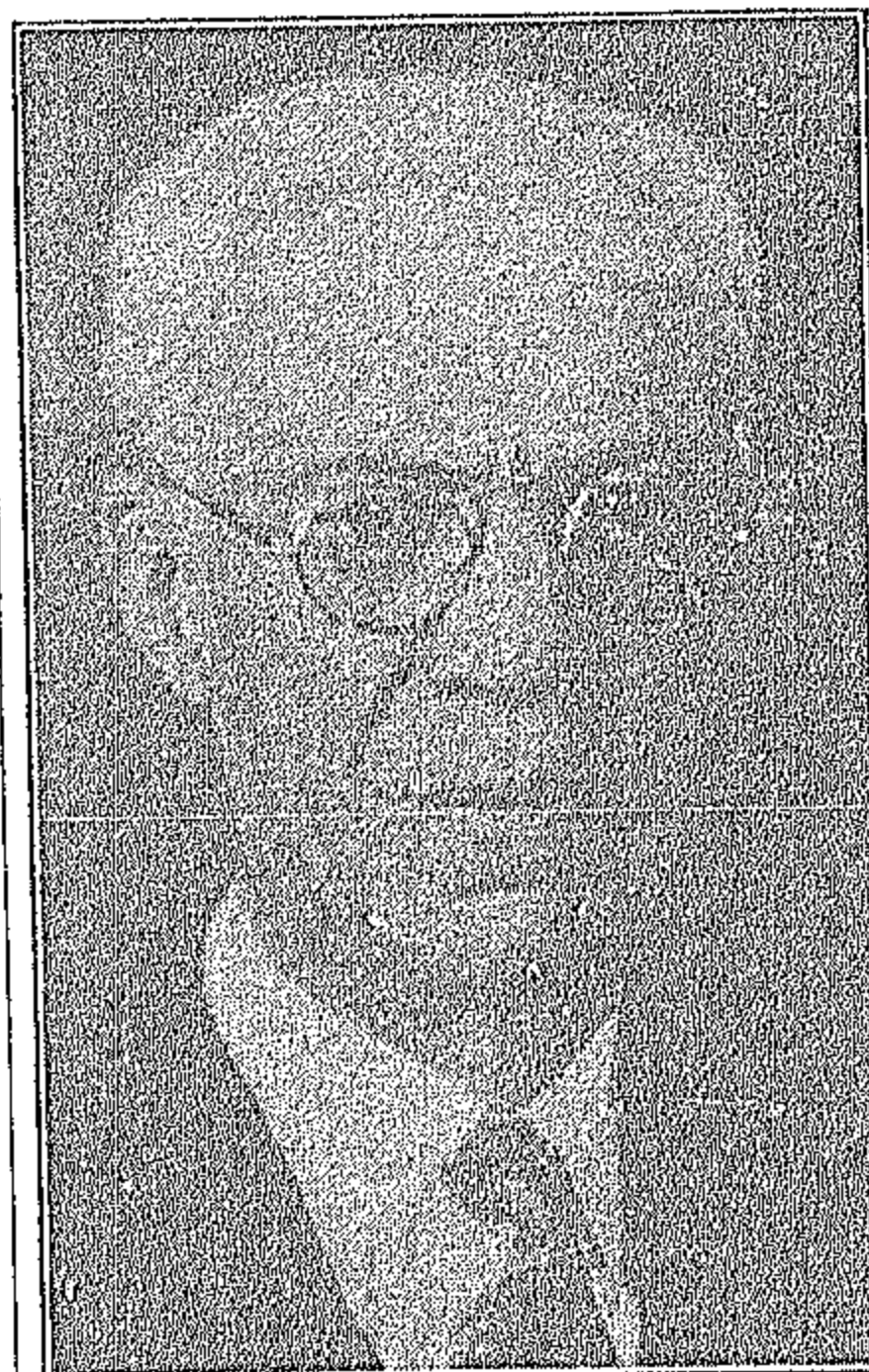
All day, track—Drake relays at Des Moines, Iowa.

Saturday, April 25

9:30 A. M.—Golf—Loyola vs. Armour at Evergreen Golf Course at 92nd and Western.

Monday, April 27

3:30 P. M.—Baseball—Morton vs. Armour at Armour.



Dr. A. E. Phillips

JUNIOR FORMAL TO BE HELD ON FRIDAY, MAY 22

No definite location or orchestra for the Junior Formal have as yet been selected by the social committee.

Since this is the only formal of the college year every effort is being made to make it the most elaborate dance of all. The number of bids is limited and as they are sold as soon as the sale is opened those intending to attend are urged to purchase them as soon as possible.

The Oriental Room of the Knickerbocker Hotel has been tentatively reserved. The committee is now engaged in comparing orchestras. Definite announcements as to their decision may be printed in the next issue of the News.

The Junior Formal climaxes the social activities of Junior Week and according to the members of the committee it will be a fitting climax. The members of the committee are: J. J. Casey, chairman; J. E. Bryant, J. B. Dirkers, O. G. Linnell, G. W. Schodde.

The dance will take place Friday evening, May 22.

Civils Hear Talks On Highway Design

Three of a series of five lectures on "The Design of Concrete Highways" were delivered on Monday, Wednesday and Friday of last week by Mr. W. E. Barker, chief highway engineer for the Portland Cement Association, to the junior and senior civils.

Mr. Barker's talks which are of a purely educational nature, might be termed as a short course in road design. His main intention is to provide the student with a knowledge of the fundamentals of this type of work. For this reason, the students have been furnished with pamphlets on "Highway Maintenance and Construction," which describe the process in detail.

In his lectures to date the speaker has been concerned mainly with the design details of concrete roads, but in successive speeches of this week he will present the construction features of this modern type of road.

The "civil" students have praised the interesting manner in which Mr. Barker has presented his talks and looked forward to the resumption of them on Monday and Wednesday of this week.

A. I. Ch. E. Members Will See Pictures

Three reels of film illustrating the processes of manufacture of nitrocellulose will be shown at a meeting of the Armour Branch of the American Institute of Chemical Engineers to be held at 11:30, Friday April 24.

The films are being supplied through the courtesy of the Brevolite Lacquer Company of North Chicago, Illinois. A representative of the Hercules Powder Company, of Wilmington, Delaware, will address the student and faculty members.

DR. A. E. PHILLIPS SUCCUMBS AFTER FIVE WEEK FIGHT

Faculty and Students Mourn Passing of True Friend

HERE SINCE '99

Students and faculty alike were grieved to learn of the death of Professor Alfred Edward Phillips, head of the department of civil engineering, on Sunday, April 19th, at about seven o'clock in the evening. Professor Phillips had been at the Presbyterian Hospital for the past five weeks for a period of extended observation, and finally succumbed to a complication of diseases.

The funeral services were held yesterday afternoon at three o'clock from St. Luke's Episcopal church, Lee and Hinman Sts., in Evanston. The senior civil class attended the services in a body, and the student body was well represented. The faculty of the Institute was also present to render the last rites for their colleague and friend.

The active pallbearers were Professors Stevens, Heald, Ensz, and Grafton, and Messrs. Knuepfer and Hafner, while the honorary pallbearers were Doctor Raymond, Dean Penn, Professor Wells, former Professor Campbell, Mr. Allison, and Mr. Guerin.

Professor Phillips held an enviable position in the eyes of the many student who studied under him and with his associates at the Institute. This is perhaps best shown in his acquisition of the name, "Pa" Phillips, a name which he appreciated and liked through the feeling that was behind it. The men with whom he associated respected him for his wisdom, his accomplishments, and his kindly personality. Professor Wells, who studied under him at Purdue in a small class, and who knew him intimately, says, "He was the most kindly man I ever knew; the fairest and squarest man; a real scholar and student. He had a wonderful and pleasing personality."

The civil engineers who studied under Professor Phillips will always remember him as a well-versed engineer. (Continued on page 3)

Fire Protects Visit Street Car Shops

Senior Fire Protects had a fine opportunity to come in contact with the work of a large repair shop and the fire hazards which accompany this work when they inspected the repair shops of the Chicago Surface Lines. The shops are located at Crawford Avenue and Madison Street. The Fire Protects inspected these shops on their regular Friday trip last week.

All the cars owned and operated by the Chicago Surface Lines are repaired and rebuilt at this plant. The plant is extremely well equipped to do any job of repairing or rebuilding that may come up, as it consists of complete units of machine, pattern, forge, paint, wood-working, metal working, and electrical shops. An important part of the electrical section is the large armature shop, where such work as rewinding the motors in the street cars, and repairing all the electrical equipment, is conducted.

In the machine shops such jobs can be done as turning out car wheels. The shop is equipped to do work from turning rivets to turning car wheels.

In the woodworking department the repairing or rebuilding of all the frames and interiors of the cars is carried on.

The entire plant is equipped to turn out a complete new car. The plant is an unsprinklered risk as the sprinklers would be ineffective in case of a fire in a car.

Armour Tech News

Student Publication of the
ARMOUR INSTITUTE OF TECHNOLOGY
CHICAGO, ILLINOIS
Published Weekly During the College Year



SUBSCRIPTION RATES
\$2.00 Per Year Single Copies, 10 Cents Each

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Vol. VII APRIL 21, 1931 No. 10

This issue is a memorial and final tribute to a man who has done much to advance the Institute in every way possible; who has brought renown to it by virtue of his personal qualifications, and whose passing is mourned by all: Dr. Alfred Edward Phillips.

A Word to the Wise

The address to the graduating class of Armour Institute of Technology, delivered last June by Mr. Bernard E. Sunny, was in our opinion, a model of balance between encouragement and warning. Its title, "We're Off to Our Klondike", was very appropriate as the theme throughout the entire speech dealt with the similarity between the everyday life of a young college graduate and that of the "sourdough" prospector.

The following paragraph quoted from Mr. Sunny's address will serve to illustrate the above statements.

"It is a great venture, full of excitement and rich in expectation! It is a long hard trip through cold and wet, with scant shelter, in an unknown country where dangers in every form beset the traveler; but, we are young and strong, and are outfitted with every device and trapping, and rough food enough to carry us to our goal. We may not go as a class, or even in groups, with the cheer and courage that numbers give;—destiny ordains that each man must go by himself! So we are off to our Klondike."

Throughout the entire address, Mr. Sunny played skillfully on the minds of his hearers in order to present his case in all accuracy. He kept always in proximity to the two opposing statements—"it is a great venture" and "it is a long hard trip." Neither one of these cryptic descriptions of life was self-sufficient. Each was only a half truth. Each needed the other in order to tell the whole story. In this manner, by balancing the one against the other, he encouraged the graduates to whom he was speaking without giving them false impressions that the road to success is an easy one to travel.

On the question of the individual graduate's attitude toward the world in general, Mr. Sunny strongly advocated the median between aggressive egotism and modest reservedness. The man who is constantly burdening his neighbors with accounts of his marvelous ability is considered foolish, while the one who keeps his qualifications hidden from view is an unknown quantity and is looked upon as stupid. Yet, of the two, Mr. Sunny chose the egotist in preference to the man of retiring character. Undoubtedly, the boasting, blustering type of person is annoying and makes an unpleasant companion, but at least he has a chance of being a success. The extremely modest man, on the other hand, lacks the self-confidence that is such necessary equipment for the "long hard trip" of life.

"The Slipstick"

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

HE SHOULD VENGEANCE WRIQUE

There once was a man not unique
Who imagined himself quite a shique;
But the girls didn't fall
For the fellow at all,
'Cause he made only twenty a wique.

DESERVES ONE

Old Slow Poke; "Mister Jackson, er—that is, I would like to, er—that is, I mean I have been going with your daughter for five years,—"
Old Man; "Well, whadda you want—a pension?"

OUR OWN WEATHER REPORT

Tuesday generally fair, probably followed by Wednesday.

Applications of Trig

You see, Lancelot, it was this way. I sez to her, I sez, "Say, honey, what is the quickest way to get a book out of the library?" Then quick as a flash she turns around to me an' she sez to me, sez she, "Multiply the area of the base by the altitude and you will get the volume immediately."

AND THEN THERE'S THE BUSINESS-LIKE, EFFICIENT, FRESHMAN FIRE PROTECT WHO MADE THE SUGGESTION THAT WHEN THE GLASS IN THE FIRE ALARM SIGNALS IS BROKEN IT BE REPLACED WITH THE NEW SHATTER-PROOF GLASS.

We were reading a book on columning t'other night when we came across a section where Don Marquis tells how he prepares his columns. He says that he writes the six columns for the current week on Monday afternoon, beginning promptly at 2 o'clock and finishes in an almost dead faint at 3 o'clock, "falling on the Oriental rug in the center of our study, where we lie and moan for hours." The rest of the week he is too weak from the extreme concentration and must rest quietly until the following Monday at 2 o'clock.

Now the composing-room foreman comes out and says that the six columns stuff is all the bunk. He says that Don writes a half column every day between 4 and 5 o'clock "when it's nearly too late to get it into type at all, and then brings it in here and asks us for goodness sake to stretch it into a column somehow!"

Bum Shot

"You aim to please, do you?" remarked the irate customer.
"Sure."
"Well, you ought to take some time off for target practice."
—Yeh.

We understand that a scientist has invented an earthquake recorder that goes on like an alarm clock. Personally we think that there is more need for an alarm clock that goes off like an earthquake.

ATTENTION REFRIGERATOR MANUFACTURERS:

—If a particle of matter be separated from all other matter, it will lose all energy and reduce to a temperature of absolute zero.—From a radio lecture.

HE COULDN'T HELP IT

A very small lad stood in line at the library awaiting his turn to return the book which he held in his hands. It was a large, dirty and well worn, decrepit volume. When his turn finally came the librarian took the book, and, after examining it addressed him, saying:

"This book is quite technical, isn't it?"
Almost on the verge of crying, but trying to be brave, he replied:
"Y-Y-Yes ma'm, but please, ma'm, that's the way I got it, honest."
—Bloney.

He only swiped a few bananas but the judge put him in jail for two years for impersonating an officer.

NECESSARY INFORMATION

"So you wish to marry my daughter?"
"Very much, sir."
"And can you support a family?"
After a moment of hesitation the young man replied, "Perhaps, sir. How many are there of you?"

A half hour ago we felt like writing a good last line, but now we feel like going to the game at Sox Park, so you'll pardon us. But we'll see you at the Freshman Informal and make amends at that time.
—The Bongineer.

In closing his address, Mr. Sunny pointed out that even more important than the financial rewards that accompany success is the good opinion of fellow men. It was a fitting thought with which to terminate a speech of such inspirational character.

It is our belief that a commencement address of the kind and quality of this one, is of real value to a graduating class. We hope that those to be delivered at Armour in the future will reach the same high standard.
W. H. R.

Sundstrom Talks At Civil Meeting

A new experiment in road building was explained at the W. S. E. meeting last Thursday, April 16, in B.-Mission. Paul E. Sundstrom, a representative of the Poston-Springfield Brick Company, gave an illustrated lecture on the subject. Prior to the main topic motion pictures on the manufacture of the various types of brick were shown.

Although concrete roads are used extensively throughout the world, engineers find that it is not an ideal constituent for the use. The expansion and contraction of concrete due to adverse weather conditions has played havoc with these roads necessitating costly repairs. Research work in road building has produced the "metal base" road. Whereas the present road employs concrete as a base, this uses corrugated metallic plates.

These plates are treated with a protective coating of chemicals to eliminate the corrosion factor due to contact with the earth. After the road is graded, the plates are laid and spot welded. A layer of bituminous mastic sand is placed over them and it is rolled and smoothed. Paving bricks are laid on this and then are rolled to level and seat them. The joints between the bricks are filled with an asphalt filler and a layer of sand is spread over the surface to complete the road.

The maintenance cost of modern concrete roads is tremendous, and this new development professes to eliminate most of this giving a sturdier and more flexible road at the same initial cost.

An experimental "metal base" road has been constructed in Sangamon County, Illinois, to study its feasibility for present usage, and the results, so far, are promising.

Three Delegates Go To League Council

Acting upon the suggestion of Dr. Scherger, three delegates from Armour joined the League of Nations Model Council at their meeting in the City Club of Chicago Thursday at 9:00 P. M.

This Model Council is sponsored by the League of Nations Association and is being organized by delegates from the leading Chicago colleges to form a permanent means of representing the Council of the League of Nations in action. The project is not an attempt at forcing the views of the League upon unwilling ears, but rather is a means of showing just what the League is doing. Those who realize the necessity for some step toward insuring international peace may judge for themselves whether the League is that step or not.

When the Model Council finds its stride the public will be welcomed to a gallery at the meetings in order that they may be made cognizant with the work of both the model and the original. The immediate aim of the organization is participation in the Model Assembly that will occur at the University of Chicago in May.

The plan followed is to allot to each college in the council a country whose viewpoint it must represent during the discussions of international affairs brought up at the meetings. To defend the attitude of France in all matters relating to the League investigations and problems will be the lot of V. Rimsha, '34, N. Krause, '34, and H. L. Gibson, '34, the delegates chosen from Armour.

At the University of Wisconsin students are required to carry identification cards to prove that they are entitled to attend classes. It was found that many outsiders were coming to class and acquiring free education.

ARX NEWS

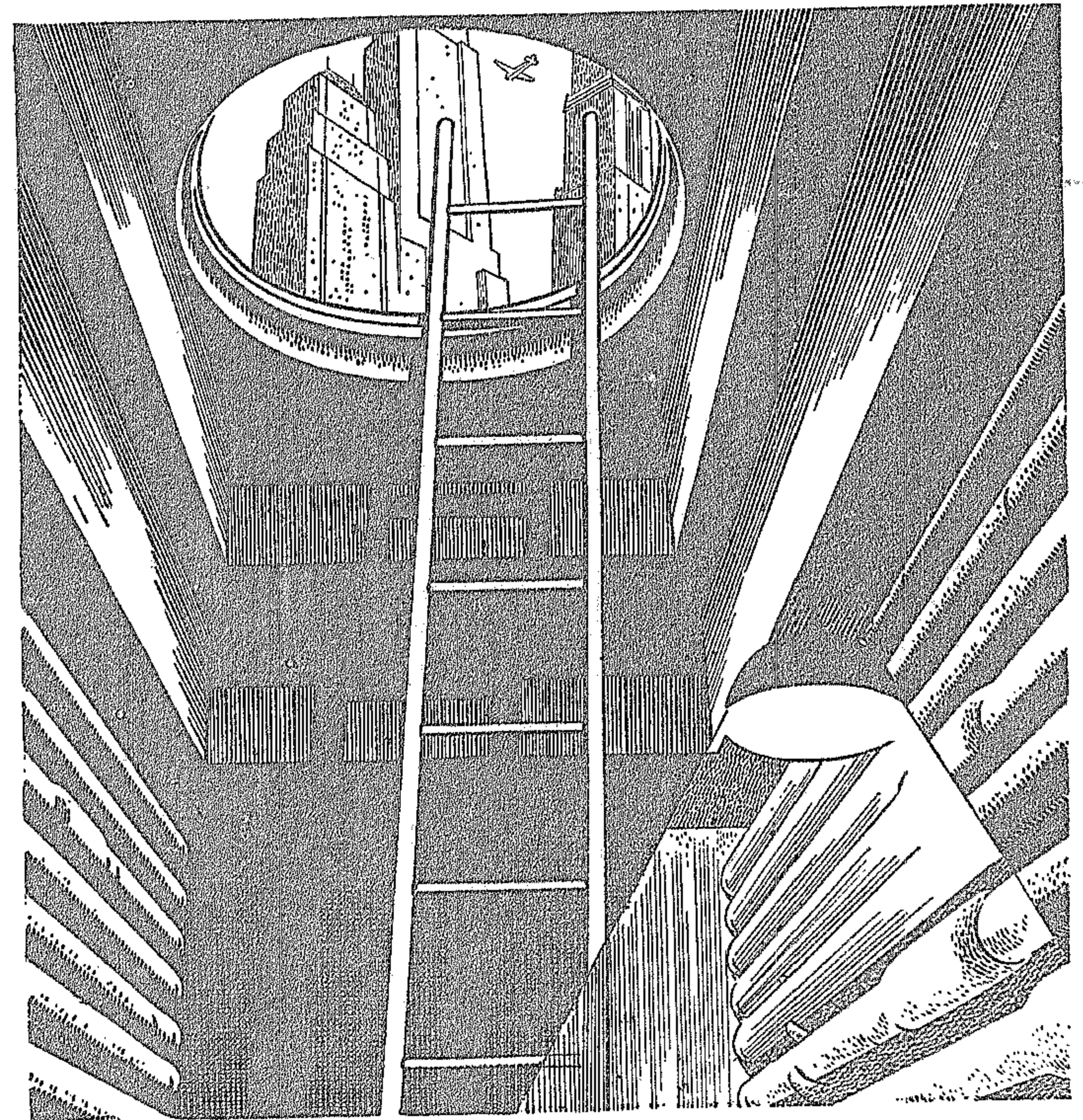
The juniors and sophomores finished another project Wednesday, and consequently the fever of excitement has now worn off and quiet reigns supreme. Up to the present time of writing the results of the judgment, locally, are unknown. The problem was a Marionette Theatre and the fellows "got into the spirit" of the program. Mother Goose rhymes, stories of the Bain Bain Clock, and Grimm's Fairy Tales all lent their part to make as much childish "atmosphere" as possible. But despite the fact that the fairy-land creatures which are born of childish fancy were roaming so gayly about, a beautiful set of plates were turned out by both classes. Still, we heard many archs say they wish they could find the fellow who invented marionettes.

On the last archeology problem only one architect was represented from Armour. This was G. W. McKenna. We received a first mention locally and a mention in New York. The problem was a Fleche of Gothic period. "Mac" worked his out nearly altogether with a 4B and 6B pencil and it was a peach of a drawing. Attaboy Mac! Keep it up.

Mr. Boche, a former student of architecture at Armour, and winner of the Architectural Sketch Club Traveling Prize has returned from abroad and honored us with his presence on sheret day. He told Prof. Reed he had a grand time, enjoying it immensely. Candidly, we would too if we could win a scholarship.

Men led women, 22 to 16 in the group to make all "A's" at the University of Michigan during the past quarter.

STEPPING INTO A MODERN WORLD



Catacombs of communication

Beneath the streets of most cities Bell System men build catacombs of communication. Through these subways run the cables that may serve millions of telephone users.

From each central office, cable ducts spider-web throughout the area served. Other ducts, containing trunk lines, connect one central directly to another. Still others contain long distance circuits

which join the telephones in one city with those in another.

This great underground system exists today only because years ago telephone engineers worked it out. As the telephone habit grew they foresaw the need of clearing streets of overhead wires and protecting circuits for greater efficiency and ease of maintenance. And today this practice of forward planning goes right on.

BELL SYSTEM



A NATION-WIDE SYSTEM OF INTER-CONNECTING TELEPHONES

DR. A. E. PHILLIPS SUCCEUMBS AFTER FIVE WEEK FIGHT

(Continued from page 1)
neer, practical and efficient as an instructor, and likable for his quaint personality and dry Hoosier humor. He was active in all his work, maintaining a personal interest in his men, and always willing to give advice from his years of experience. It was through his active interest in his department that the civils are now reaping the culmination of the work started back in '99, when he was the sole professor in civil engineering.

Professor Phillips was born on June 18, 1863, at Rouses Point, New York. He was educated in private schools in Rouses Point, and in public schools in Champlain, N. Y., and La Colle, Quebec, Canada. He was tutored for college by a clergyman who had been trained in engineering, and in 1883 entered Union College in Schenectady, N. Y.

He attended Union College four years, and exhibited there the rare gift of scholarship that later won him renown. He was a member of Phi Delta Theta, and in his senior year was elected to membership in the honorary scientific fraternity, Sigma Xi. He was graduated with the degrees of A.B. and C. E.

Subsequent to this, Professor Phillips went to Tennessee with the Cumberland Valley and Unaka R. R., running a traverse across the Cumberland mountains from Knoxville to the Atlantic coast.

In the fall of 1887, Professor Phillips went to Purdue University and established their department of civil engineering, and remained there as the head of the department until 1894. During this time he was the assistant engineer of the New York State Board of Health, and engaged in examining the water supply of New York City.

From Purdue he went to the University of Wisconsin, where he was an acting professor in bridge and hydraulic engineering. After one year he was engaged in private work throughout Illinois and Indiana in sewage disposal and water supply engineering.

In 1899 Professor Phillips came to the Institute as a professor of civil engineering, and has been the head of the department since that time. It is interesting to note in looking back through the old copies of the "Fulcrum," the student magazine of that time, that even then he was held in much esteem by the students under him. Even in those days the young journalist noted in his article those attributes which the latest class found so pleasing in him.

Union College was likewise proud of Professor Phillips, and awarded him his A.M. in 1890, and his Ph.D. in 1894. He was also an honorary member of Tau Beta Pi, a charter member of the Armour chapter of Chi Epsilon, and honorary member of Triangle fraternity. During the years 1901 to 1907 he wrote five textbooks on surveying, highway construction, masonry construction, irrigation, and roof trusses.

Professor Phillips was very fond of the outdoor life, maintaining a summer home within walking distance of the summer camp of the freshman civils on Trout Lake. In the earlier years he was active in running the camp, but lately contented himself with being a neighbor, and proving to be the expert fisherman of the region.

Professor Phillips is mourned by his wife and two daughters, as well as the host of friends that he made throughout the profession. Those who knew him will regret the passing of a kind friend and a sage counselor; an earnest instructor and a likable man.

FIRE PROTECTS MEET

A meeting of Fire Protects was held Friday, April 17, at 10:30 in Science Hall to elect honorary members to the Fire Protection Engineering Society.

Professor Finnegan explained the necessity for eligible men, and made a motion to elect Richard E. Vernor and Harry K. Rogers of the Western Actuarial Bureau of Fire Prevention to life membership in the Society. The motion was seconded and carried.

BUNKHOUSE NIGHTS

By Henry L. Gibson

Concluded in this issue.

Jaques tells the mounties that he is a trapper, but while this is true, he cannot subdue his French Canadian versatility to the point of giving up his sideline. He makes it out of fermented prunes and sugar. Except when his good wife visits her relations in Quebec. Then, with the honest joy of the true craftsman, he adds a little variety to his brew by way of a few sealers of peaches or pears that she has fondly preserved for her man's appetite—Jaques, you're going to come to a bad end with that liquor of yours. But whether the ingredients are plain or fancy, the results are equally potent. According to Jaques, "She kick lak hell".

Periodically, usually on a Saturday night, somebody starts a jug of the good stuff going amongst the boys after supper. With the fumes of transformed prunes inside the head, the comfortable tension of a rib-stretching meal under the wind-breaker, and the stuffy air of the bunkhouse reeking with tobacco smoke and pungent steam from woolen socks drying over the stove, everybody is soon in a happy frame of mind in which anything might happen.

Then the musicians starts up. There is always someone able and willing to scratch off some old time tunes on a fiddle or squeeze them out of an accordion or gasp them through his harmonica. Energetically keeping time with his foot, he plays a rickety breakdown while a couple of the boys get in the middle and try it.

Dancing is too vigorous a pastime to keep up for long, but the fun is continued when someone waxes maudlin and sings "My Wild Irish Rose" in such plaintive strains that the two Irishmen burst into tears. It will be quite a while before they can give us "Finnegan's Ball," but they sure can sing it. Another one of the gang tells us that he has—"Slung his last peavey and buried his last log," and he's not a communist either!

By this time Ole will have plucked up enough courage to render, in that dashing, daring, romantic manner so characteristic of every son of Sweden: "Aye bane Swede from Manee-sota,"—the only song he knows. Fortunately, for Ole's vanity, nobody is very critical by now; so he gets a good applause.

Another popular feature on the program, is the effort of the camp parodist. Most likely he has been mulling his parodies over in his head for the past three weeks, and has got some real good ones composed. Psychologists might rave about his misplaced talent, but the lumber-jack-poet prefers the genuine admiration of his mates to fickle fame

Telephone Long Lines Dept. To Be Visited

Some of the mysteries of the country's largest communication concern will be unfolded to the senior electrical engineers when they visit the "long lines department" of the American Telegraph and Telephone Company, on the next regular inspection trip. The trip will be taken next Tuesday, April 21.

The Electricals will assemble as usual at 1:30 P. M. in the men's club room of the Franklin building at 315 West Washington Street. From this point the tour will be under the supervision of W. C. Hall, college employment representative.

The program will open with three talks on telephone equipment. Brief expository lectures on "Planning long distance circuits;" "Providing outside plants for long distance circuits;" and "Engineering central office equipment" will be given.

The party will then sojourn to inspect the latest developments and improvements in telephone equipment. The A. T. and T. Telephone room, testing room, repeater room, broadcasting control room and telephotography room will be viewed.

A college degree is worth \$72,000, according to Dean Everet Lord, of Boston University.

TSK! TSK! THESE ARMOUR BOYS OF MANY YEARS AGO

Thirty years ago last Wednesday the students at the Institute were excited by the news that Mrs. Armour had given \$1,000,000.00 to the school to be spent for needed improvements. Now at the time that this took place boys in college were able to celebrate an event of this sort.

According to reports that have filtered through to this less exciting age, the boys went to the various drug stores with the swinging doors and ate huge quantities of pretzels. This being before prohibition the pretzels were washed down with lemon pop and the more adventurous youths actually used near beer.

But this little deviation from the straight and narrow did not satisfy the young men who were overcome with endless joy. Next their steps carried them downtown where they were extremely successful in making general nuisances of themselves. In fact several men in blue uniforms decided that the boys were not well acquainted with the city.

In order to better acquaint the boys with Chicago (most of them were either fraternity men or non-fraternity men) these afore-mentioned blue-coats (they were not English soldiers as one could tell from their blue suits) called a big bus, vulgarly called a paddy wagon, and drove the boys to the next police station.

(This little item was gleaned from the column "Thirty Years Ago" in "The Chicago Tribune.")

Schommer Recalls Rockne Anecdotes

At a luncheon of the Kiwanis Club, held on Thursday, April 16, in the Hotel Sherman, Prof. John J. Schommer revived once more the humor and wit that was so characteristic of the late Knute Rockne.

Professor Schommer being a football official was afforded an intimacy with Coach Rockne that few others possessed. To the Kiwanis members he recounted some of the brilliant anecdotes of the famous Notre Dame coach.

in the city. Besides, his rhymes would need no small amount of modification before they could be accepted "outside," for some of them would put even a midnight burlesque to shame. He will make such a hit with the boys that no one will care to follow him with any un-garnished songs of the towns; so after a few calls of "let's have thet one again" the action slows up and tired men crawl up into their bunks for the night.

Now there starts another concert. This time there is no applause to spur the performers to still greater efforts. The only audience, the stubby little stove, shows no signs of appreciation save perhaps a contained chuckle as a knob of burning coal settles a trifle lower. But in spite of this lack of interest and attention, the bunkhouse nightingales are fullthroatedly pouring forth their song-of-songs. Soft snores, sluggish snores; snores that cheer, snores that startle, snores that bully; baritones, tenors, coloraturas; trumpeting snores, and snores that just peep. Grunting, gasping, puffing, blowing, groaning, gurgling; rattling horribly or squeaking dismally, the cadences rise and fall, now in unison, now in harmony, but most the time in neither. And the sleepers go on sleeping. Here are men who during the day out-work each other for fame, out-eat each other for glory, out-cuss each other for pure devilment, out-drink each other for sheer joy of living, out-spit each other for practice, and who, during the night, out-snore each other for nothing at all.

But their Morphean bugling sounds the cease fire to the long-suffering stove, which knows that the enemy has retracted its forces and will not attack anew until another day when the stinging cold causes them to crowd around its cosy warmth for one more BUNKHOUSE NIGHT.

Armour Fighters Complete Season

Armour Tech's boxing team lowered the curtain on the 1931 boxing season in a most fitting style by trouncing the Loyola University team twice, the initial encounter being staged at Armour and the return on the north side campus. Although given an edge in official ratings, the north siders could not withstand the blistering perpetual fighting spirit of the Tech leather pushers. Not being satisfied with their first decisive victory over the Loyola aggregation, the Armour fighters coolly proceeded to knock the north side squad into fistic oblivion in their second encounter with the result that there were four knock-outs. These results furthered the believe that the Tech squad was one of the finest in the middle west.

It is pleasing to note that next year's squad will be composed practically entirely of veterans, who should represent the finest boxing team Armour ever possessed. Letters and sweaters will be given Capt. Ustrycki, Montesano, Mago, Sandstrom, Rush, Campioni, Heckmiller and manager Cannon.

At the last official meeting of the squad, Sandstrom was elected captain of the 1932 team. He is Tech's representative in the feather-weight class and has served under the Armour colors during his entire stay at Armour. His experience should prove an asset to the squad. Too much cannot be given Manager Cannon for his ceaseless efforts in behalf of the team.

Armour will lose Mago and Montesano by graduation. Their loss will be felt keenly as they were valuable assets to the team. Armour will miss the slugging middle-weight and the ever smiling fly-weight who was noted for his sportsmanship.

FRATERNITY NOTES

DELTA TAU DELTA

James McAlear, who has been convalescing at Prairie du Chem, Wisconsin, is now living with us while he works in the city.

Walt Healy and Pack Brown dropped in for lunch, and Art Millott came around to listen to the ball game.

KAPPA DELTA TAU

It was the cold night of March 28, when the Kappa Delta Tau fraternity held their informal initiation in the cottages of the fraternity at the Dunes. The pledges who received their "third degree" are: Morris Wise, Harold Goldman, Norman Krause, and Milton Glazer. The formal initiation and banquet will be held April 24, at the Sherman Hotel.

THETA XI

A radio dance was held at the Chapter House last Saturday evening. Several alumni and guests were in attendance.

Theta Xi wishes to thank Sigma Kappa Delta for their kind invitation to their "Hard-Times" party. It is to be hoped that in the future, more such inter-fraternity affairs will take place.

Brother Frank Hoehle, who has been staying at the House, left Sunday, for Springfield, where he has accepted a position with the State Highway Commission.

PHI KAPPA SIGMA

Brother Roy M. Henderson, a graduate of Armour, class of '02, has recently been made president of the United Engineers and Construction Co. He was formerly the managing director.

BETA PSI

A Hard-times Party was held at the Chapter house on April 18. A large number of alumni were present.

A practice baseball game with the Triangles was called off on account of rain.

Training for the inter-fraternity track meet took a flying start as the boys are anxious to repeat last year's performance in this field.

RHO DELTA RHO

Rho Delta Rho announces the initiation of the following men:

A. Feinberg, E. E., '33.
H. Feldman, C. E., '34.
A. Anders, M. E., '33.
L. D'Alba, C. E., '34.

The formal initiation was held at the Chapter House immediately after the "exercises."

The studio dance that was planned for April 11 was postponed indefinitely out of respect to Dean Palmer. All of the alumni could not be notified in time, so an impromptu social was arranged.

TRIANGLE

Preparations have been going on now for several weeks for the coming interfraternity contests.

Art Oberbeck is captain of the track team and Wally McWilliams has charge of the baseball squad.

Both have high hopes of successful campaigns, and they have also made a bet as to the final results of their respective sports. Harry Bailey has charge of the golf team with quite a bit of material with which to work.

Stan Lind has been appointed social chairman and it looks like a big social year booms ahead.

Installation of the newly elected officers was April 13, with the past president, Rolland Spencer, presiding.

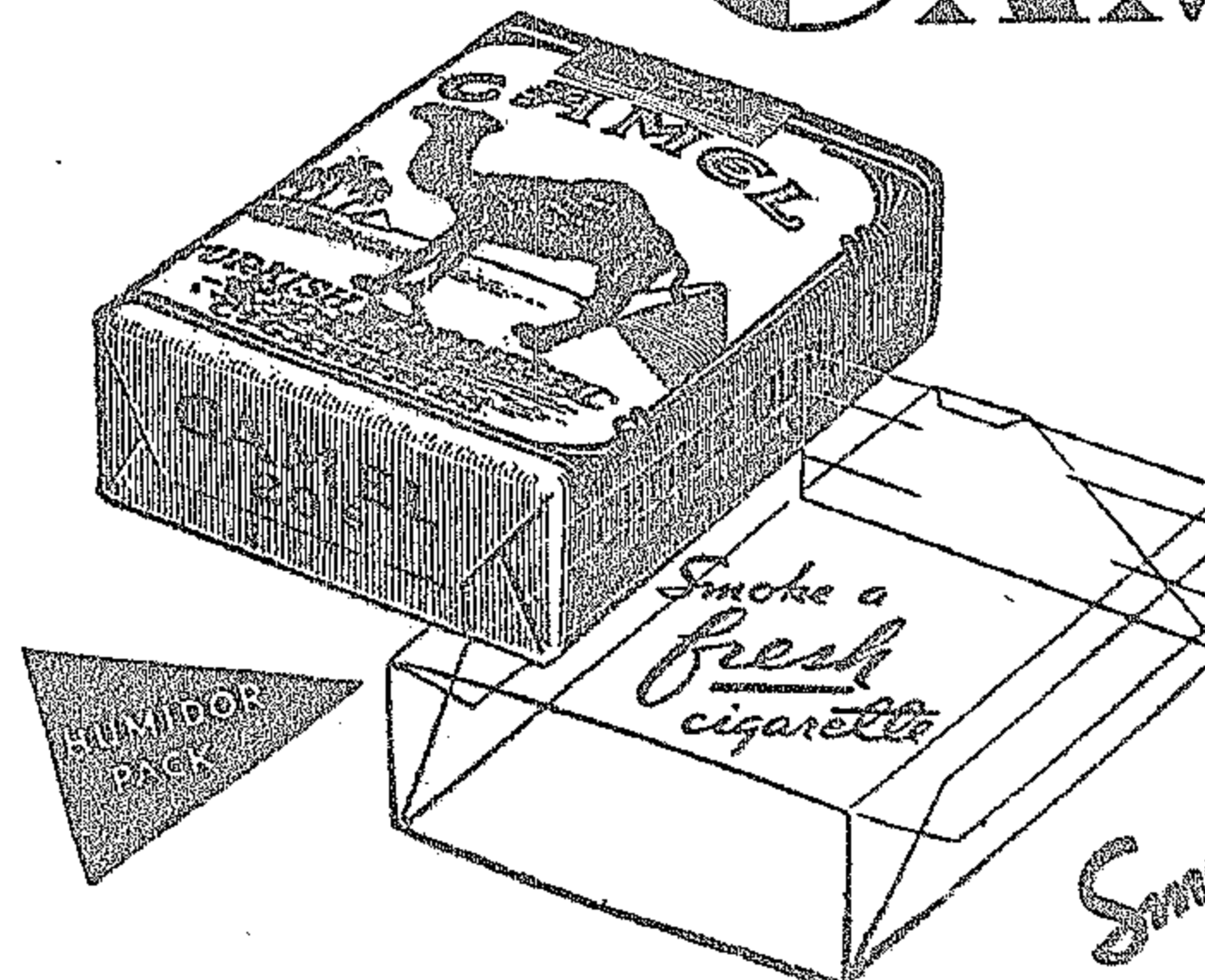
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ARMOUR BASEBALL TEAM WINS FIRST TWO GAMES OF SEASON WITH CRANE, NORTH CENTRAL

Consistent Pitching By Stehno and Lynch and Robin's Home Run Help to Cinch Contests

RAIN STOPS CRANE TILT EARLY

Armour's baseball team opened its season last Wednesday afternoon at Ogden field when they met and defeated Crane College by a score of five to one. The game was called on account of rain at the end of the sixth inning of a scheduled seven inning game.

Stehno turned in a stellar pitching game for Tech, striking out eight men, two in each of the 3rd, 5th, and 6th innings, and only allowing six well scattered hits. He also starred in the hitting department, knocking out two doubles, scoring two runs and crossing the plate once himself.

Crane Scores First

Crane scored first, garnering one run on one hit in the opening frame. Steele led off with a single to left. Bryant walked, and on successive sacrifices by Beyer and Kraus, Steele scored the first and last run for Crane. Anderson ended the inning by striking out.

In the last half of the first Captain Robin lined a double over the right field fence after two were out, but his efforts came to naught when Mago flied out to center.

Not a hit was made in the second, third, or fourth innings by either team, but in the fifth inning some three hundred Tech rooters had plenty of opportunity to test their lungs.

Crane threatened to score again in the first half of the fifth when Bellinger connected for a double over second after Trim had struck out. The situation eased up a bit when Sandborn struck out. Zody, the pitcher, then singled, Bellinger halting at third. The inning ended when Steele flied out to Sommers.

Tech Scores 4 Runs in 5th

Four runners crossed the plate in the last half of the fifth inning when Coach Krafft's men displayed their ability to hit when hits were needed. They scored four runs on doubles by Stehno and Pepe, and singles by Moskowitz and Michalski. The latter led off with a single through short. Sommers was safe on an error by Kraus and Stehno came through with a double over the right field fence, scoring Michalski. Link came up and sacrificed the runners a notch by bunting down the third base line. Moskowitz singled, scoring Sommers. Pepe lined a double over third base, scoring Stehno and Moskowitz. The parade around the bases ended when Robin sent a long fly to center and Mago went out, catcher to first.

The last half of the sixth was played in a typical April shower. After Omiecinski had gone out by way of second to first, Michalski got a walk. Sommers struck out, but Stehno got his second double and Michalski scored. Link struck out to end the inning.

BOX SCORE

ARMOUR—5

ABRHPA					
Moskowitz, ss.	3	1	1	0	1
Pepe, r.f.	3	0	1	1	0
Robin, 1b	3	0	1	6	0
Mago, 3b	3	0	0	1	1
Omiecinski, 2b	3	0	0	1	1
Michalski, l.f.	3	2	1	0	0
Sommers, c.f.	3	1	0	1	0
Stehno, p.	3	1	2	1	3
Link, c.	3	0	0	8	0
	27	5	6	18	6

CRANE—1

ABRHPA					
Steel, r.f.	3	1	1	0	0
Bryant, c.f.	3	0	0	3	0
Beyer, 1b	3	0	2	8	1
Kraus, 2b	3	0	0	1	0
Anderson, c.	3	0	1	4	1
Trim, l.f.	3	0	0	0	0
Bellinger, ss.	2	0	1	3	3
Sandborn, 2b	2	0	0	1	2
Zody, p.	2	0	1	0	0
*Sourika, 3b	0	0	0	0	0
	24	1	6	18	7

Armour made its second opponent wither under its attack last Friday by a 5-2 score. North Central College of Naperville was the victim in a well played nine inning conflict. The game hung in balance until the seventh inning. Both teams were deadlocked 2-2 and neither showed any promise of being able to break the knot.

Lynch Strikes Out 11

Robin's home run and Lynch's effective pitching was a feature in the game. Lynch allowed but 6 hits, four of which were scattered. He furthered aided his teammates by striking out 11 men. Robin's home run was registered in the seventh inning with Moskowitz on base.

North Central started the scoring in the second inning. An error by Mago permitted a man to reach first base. He stole second and reached home on a single by Klump. They scored again in the fifth inning when Massier doubled over the right field fence to score Klump.

Robin Gets Homer in 7th

A single by Omiecinski followed by a smashing double by Sommers gave Armour its first tally in the second inning. Pepe's single accounted for the second run in the fifth inning, when Moskowitz reached first on a free pass. The winning run scored in the 6th inning on a hard line-ball by Sommers.

Armour's big scoring chance came in the seventh inning. Since runs were not in demand Tech ceased scoring after two runs were collected. This inning was started by Lynch who popped to the pitcher. Moskowitz followed with a two base hit to Federal Suret. Robin approached the plate after Pepe struck out. With two outs against our men, Robin connected his left field drive for the first home run of the season.

ARMOUR—5

AB. R. H. E.					
Moskowitz, ss.	2	2	1	0	1
Pepe, rf.	3	0	1	0	0
Robin, 1b	4	1	1	0	0
Mago, 3b	2	0	0	1	0
Michalski, lf.	4	0	0	0	0
Omiecinski, 2b	2	1	1	0	0
Schohl, 2b	1	0	0	0	0
Sommers, cf.	3	0	2	0	0
Grundstrom, cf.	1	0	0	0	0
Link, c.	4	0	1	0	0
Lynch, p.	3	0	0	0	0
	29	5	7	2	

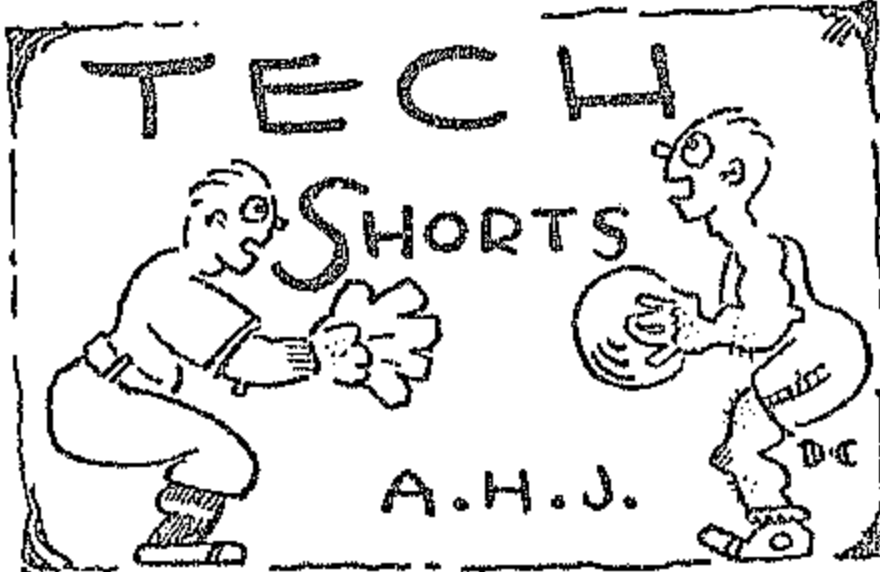
NORTH CENTRAL—2

AB. R. H. E.					
Carnallo, 1b	3	0	1	1	1
Sturgeon, ss.	4	0	1	1	0
Kauffman, cf.	5	0	1	0	0
Doenier, 2b	4	0	1	0	0
Posar, lf.	3	1	1	0	0
Hillel, rf.	2	0	0	0	0
Larson, rf.	2	0	0	0	0
Klump, c.	3	1	1	0	0
Massier, p.	4	0	1	0	0
	30	2	6	2	

George Jennings Cops Indoor Tennis Title

George Jennings has annexed the Western Indoor Tennis Championship by his victories at Cincinnati. Forty-five players competed, among them being Larry Tieman, last year's champ, and A. McAllin, former Ohio State champ. In the semi-finals Jennings defeated S. Habberstead of Atlantic City, 6-3, 6-2, 6-3. By a score of 6-1, 6-2, 5-7, 7-5, he conquered Tieman in the finals. He lost only four games in three matches, and his good service and fast volleys have won him the first leg of a new cup.

*Replaced Sandborn in 6th inning. Two base hits—Stehno (2), Robin, Pepe, Bellinger. Struck out—by Stehno, 8; by Zody, 3. Hits—Stehno 6 in 6 innings; Zody 6 in 6 innings. Errors—Kraus, Bellinger, Robin.



Ho! Hum!

Well, well, where shall we begin? We have real dope on baseball, track, boxing, swimming, tennis, interfraternity indoor baseball and golf, and the sports editor tells us he needs only 300 words this week. Queer fellows these sports editors.

Baseball seems to be the big shot in the sports calendar so why not begin right there. As you know, the boys dumped the proud west siders, Crane College, 5 to 1, on Wednesday afternoon. Old man pluvius opened his faucet in the sixth inning causing a permanent halt in hostilities. On Friday North Central was met. The score was Armour 5, and North Central 2. North Central is Coach Krafft's Alma Mater.

Big Ten Champs

Tomorrow real competition is to be met when Tech battles Lake Forest at Lake Forest. Then on Friday Westedn State Normal of Kalamazoo, Michigan is to provide the opposition. Press reports of this last mentioned team show that they are up in big time baseball circles. On the same day that Armour trimmed Crane, Western State beat Wisconsin, 11-9. Wisconsin won the Big Ten baseball Championship last year, nuff said, nuff said.

This and That

The following is a potpourri of this and that and that and this: Ex-Captain Eddie Knox of his swimming team is replaced by his successor Captain Andy Weston. Weston has been a constant winner and ranked first in the point column this year. The final vote of the election showed Weston with five votes and Jack Cavanagh with four. Recommendations for awards for both boxing and swimming have been made. Ex-Captain Ustryski has been replaced by Captain Sandstrom as leader of the boxing team. Thirty-two men have signed up for the annual tennis tourney. George Jennings has just recently acquired the title of Mid-West Indoor Tennis Champion. He won the first leg on a massive silver trophy emblematic of the championship. Ed Colcord has been having some tough luck lately. Several weeks ago he fell from a height of eight feet and cracked his wrist. Last Thursday he got some dirt in his eye and had to wear a bandage because the doc. said so. A genuine bonehead stunt was pulled when a five ton truck attempted to circle the track in Ogden Field. The truck got around all right but the track sure did suffer. Interfraternity sports gets underway with the opening of the golf and indoor baseball schedules. Ed Stehno has not lost a baseball game for Armour since his frosh year. He has won about twenty and lost only three games for his collegiate record.

INTERFRATERNITY SCHEDULE

Indoor Baseball
April 21—Rho Delta Rho vs. Phi Pi Phi
April 21—Sigma Alpha Mu vs. Kappa Delta Tau
April 23—Beta Psi vs. Delta Tau Delta
April 23—Sigma Kappa Delta vs. Phi Kappa Sigma
Triangle and Theta Xi drew byes for the 1st round.
Golf Schedule
The following teams must meet before May 6:
Phi Pi Phi vs. Kappa Delta Tau.
Delta Tau Delta vs. Sigma Alpha Mu.
Rho Delta Rho vs. Phi Kappa Sigma.
Triangle vs. Theta Xi.
Sigma Kappa Delta and Beta Psi drew byes.

TECH TRACK TEAM WINS DUAL MEET WITH CRANE 71-50

Tech's outdoor track team won its second dual meet of the 1931 season by defeating Crane Junior College 71 2/3 to 50 1/3 last Saturday afternoon at Ogden field. Armour copped ten out of a possible fourteen first places.

George Nelson, all around freshman star athlete, again was high point man, scoring 15 7/12 points. He won first place in the 100-yd. low and high hurdles, second place in the broad jump, tied for second place in the high jump, and also ran as anchor man on the winning 1/3 mile relay quartet.

Art Jens also starred by winning two first places in the 100 and 220 yard dashes, and running as lead off man for the relay.

Frastachi scored twelve points for Crane by copping first place in the discus, tying for first place with Chuck Jens in the shotput, and throwing the javelin for second place.

Captains Fox and James, C. Jens, Sademan, and Cordes won first places for the black and yellow tracksters in the 440-yd. dash, 880-yd. run, shot put, one mile run, and javelin respectively.

Coach A. A. Stagg, Jr. will probably take the following men: Captains Fox and James, Art Jens, Nelson, Sademan, Iverson, and Hirsch to the Drake Relays at Des Moines, Iowa next Friday and Saturday to compete in the 880-yd. relay, one mile relay, sprint medley relay, and two mile relay.

RESULTS

100-yd. dash—Won by A. H. Jens, Armour; second, Phi, Crane; third, Carlson, Crane. Time—10.0.
1-mile run—Won by Sademan, Armour; second, Skok, Crane; third, Tumasonis, Crane. Time—5:05.6.
100-yd. high hurdles—Won by Nelson, Armour; second, Oberbeck, Armour; third, Carlson, Crane. Time—14.5.
440-yd. dash—Won by Fox, Armour; second, Hirsch, Armour; third, Goodman, Crane. Time—54.2.
100-yd. low hurdles—Won by Nelson, Armour; second, Carlson, Crane; third, Marlewski, Crane. Time—11.2.
220-yd. dash—Won by A. H. Jens, Armour; second, Goodman, Crane; third, Carlson, Crane. Time—23.1.
2-mile run—Won by Skok, Crane; second, Iverson, Armour; third, Anderson, Armour. Time—11.30.
880-yd. run—Won by James, Armour; second, Fox, Armour; third, Greenburg, Crane. Time—21.15.
Shot put—Frastachi, Crane and C. Jens, Armour, tie for first place; third, Pitts, Crane. Distance—37 feet, 11 inches.
Broad jump—Won by Pitts, Crane; second, Nelson, Armour; third, Carlson, Crane. Distance—19 feet, 10 1/2 inches.
Javelin—Won by Frastachi, Crane; second, Frastachi, Crane; third, Manson, Armour. Distance—141 feet, 5 inches.
Discus—Won by Frastachi, Crane; second, Hendricks, Armour; third, Greenburg, Crane. Distance—94 feet.
High jump—Won by Grech, Crane; Nelson, Armour, Setterberg, Armour, and Blackman, Crane, tie for second. Height—5 feet, 4 inches.
One-third mile relay—Won by Armour, (A. H. Jens, Hirsch, Sademan, Nelson); second, Crane. Time—1:04.4.

Varsity Golf Team Defeats Alumni 8-7

The golf team opened the 1931 season by defeating the Alumni 8-7 last Saturday at the Evergreen golf course.

Scores were as follows: Pearson 2, Joseph, Alumni, 1; Lang, Alumni, 3, Johannisson, 0; Christiansen, Alumni, 2 1/2, Weis, 1/2; Christiansen, 1/2, best ball of Weis and Ollison, 2 1/2; Pearson and Johannisson, 3, Joseph and Lang, Alumni, 0.

Fifty men competed in the annual golf tournament held on April 11 for the purpose of selecting new men to compete on the varsity.

Ollison, Wyant, and Weldon survived both the medal and match play. Their scores at the end of 36 holes at the Evergreen course were 180, 186, and 192 respectively. The varsity team consisting of Captain Weis, Johannisson, Pearson, Ollison, Wyant, and Weldon, will meet Loyola University golfers next Saturday at the Evergreen Golf course.

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Interfraternity Athletics Begin

Interfraternity baseball and golf schedules have now been completed. The baseball tournament will first be played off and is to be followed by the golf tournament.

The schedule calls for the baseball contests to start April 21, and the finals will be run off about May 5. The games, except the final, will be seven innings long, the final going the regulation nine innings. They must be played on the dates indicated in the schedule, except when called on account of rain, necessitating it to be played off on the following day. The fraternities must arrange among themselves the time, place, and referees for each game. The standard 16 inch playground ball must be used.

Last year the Phi Pi Phi's beat Beta Psi by a score of 8 to 2. In winning this tournament the Phi Pi Phi's took permanent possession of the indoor trophy.

The golf matches which will follow the baseball tournament will begin about May 12. The finals of this tournament must be run off before May 21. The matches will be played at the Marquette golf course which is located at 67th and Kedzie Avenue. There will be two singles matches and one doubles match. All these matches must be played before the time set in the schedule.

SUMMARIES

100-yard dash—Won by A. Jens, Armour; second, Cohen, Chicago Normal; third, Brefford, Chicago Normal. Time—10.8.

1 mile run—Won by James, Armour; second, O'Brien, Chicago Normal; third, Barnett, Armour. Time—5:03.4.

100-yard high hurdles—Won by Nelson, Armour; second, Brefford, Chicago Normal; third, Oberbeck, Armour. Time—15.1.

440-yard dash—Won by Fox, Armour; second, Hirsch, Armour; third, Twomey, Chicago Normal. Time—54.7.

100-yard low hurdles—Won by Nelson, Armour; second, Brefford, Chicago Normal; third, Oberbeck, Armour. Time—11.8.

Two mile run—Won by Williams, Chicago Normal; second, Anderson, Armour; third, Kaplan, Chicago Normal. Time—11:54.

Broad jump—Won by Nelson, Armour; second, Wolfe, Chicago Normal; third, Brefford, Chicago Normal. Distance—19 ft. 9 in.

220-yard dash—Won by A. Jens, Armour; second, Cohen, Chicago Normal; third, Sorenson, Armour. Time—24.6.

Half mile run—Won by Nelson, Armour; second, Sademan, Armour; third, Iverson, Armour. Time—2:07.8.

Shot put—Won by C. Jens, Armour; second, Miran, Armour; third, Manson, Armour. Distance—35 ft. 7 in.

High jump—Won by Brefford, Chicago Normal; second, Setterberg, Armour; third, Wolfe, Chicago Normal. Height—5 ft. 6 in.

Pole Vault—Won by Cunningham, Armour; second, Everson, Chicago Normal. (Only two entries.) Height—8 ft.

Discus—Won by Manson, Armour; second, Hendricks, Armour; third, Bachman, Armour. Distance—97 ft. 2 in.

Javelin throw—Won by Cordes, Armour; second, C. Jens, Armour; third, Krause, Armour. Distance—128 ft.

TRACKMEN CRUSH CHICAGO NORMAL BY 89-36 SCORE

Nelson, A. Jens, James, Fox Show Form In Meet

FOUR SLAMS SCORED

The Armour Track Team assembled for a regular business meeting, the first of the outdoor season, on Ogden Field Tuesday afternoon, April 14. Coach Stagg reported business for the afternoon to be the entertainment of visiting thinly clad from Chicago Normal College.

George Nelson was appointed chief entertainer, assisted strongly by the Jens brothers, Captains Fox and James, Dave Manson, and various and sundry others. Routine business of entertainment was enacted and the meeting adjourned.

Win 12 First Places

Results of the meeting showed the Armour cohorts in possession of 12 of 14 first places and a total of 89 points compared to 36 which represented the best efforts of Normal. Moreover, Armour scored in every event and slammed the half-mile, shot put, javelin, and discus throws.

Nelson led in the proceedings for Armour, scoring first in both hurdle races, the half-mile, and the broad jump for a total of 20 points. A. Jens was second with 10 points as a reward for first place efforts in both dashes. C. Jens gathered 8 points with first in the shot put and second in the javelin throw. D. Manson also showed well with first in the discus throw and third in the shot put.

Two Captains Place

Captains Fox and James placed first in the 440 and 1 mile runs respectively. Cordes of Armour easily scored a first in the javelin with a toss of 128 feet. "Red" Cunningham showed nice form to take first in the pole vault.

Brefford, colored star, was best for Normal with 13 points, representing a first in the high jump, second in both hurdle races and third places in the 100 yard dash and broad jump. Williams accounted for Normal's other first place flashing a strong last lap burst of speed to barely nose out Anderson who was competing for the first time under Armour colors.

Nelson Stars

Nelson turned in the best time of the meet when he won the 100 yard low hurdles in 11.1 seconds. A. Jens also turned in a nice race, considering the condition of the track, when he stepped the 220 in 24.6 seconds. Give either of these boys a fast track and new records are likely to be made.

The 440 and 880 yard runs were the most exciting events of the afternoon. Both were closely contested between Armour men. Hirsch pushed Captain Fox hard all the way in the 440 and in the 880, Sademan and Nelson changed the lead several times before Nelson finally won by about a yard.

The weak spot of Armour track teams for several years has been the field events, especially the weights, but with the newer men on the team sweeping these events this department seems to be well taken care of at the present time.

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