



ARMOUR CAGERS END SEASON BY DEFEATING CHICAGO TECH IN FAST, HARD FOUGHT GAME

Captain Robin, Ott, O'Connor, Rutkowski, and
Setterberg Play Under Tech
Banner for Last Time

RIVALS AHEAD UNTIL FINAL MINUTES

Armour Tech climaxed its 1930-31 basketball season with a 33-26 victory over Chicago Tech in the game played at DeLaSalle gym last Thursday. The game marked the last appearance of Captain Robin, Ott, O'Connor, Rutkowski, and Setterberg, who will be lost to next year's squad through graduation.

This final victory boosted Armour's record of wins to eight. Only five defeats have been suffered, giving the team the distinction of being the best that has been developed at the school in the last five years.

Hard, Bruising Game

Last Thursday's game was a bruising, hard fought struggle. A total of 39 fouls were committed, causing three Armour men and two Chicago Tech regulars to leave the court. Up until the final six minutes of play, Chicago Tech paced ahead of Armour. At the half Chicago led with a 15-14 score and continued to hold a one and two point margin until Omiecinski and Ott opened their scoring attack and gave Armour the lead which increased to a seven point margin when the final whistle blew.

Beemsterboer's free throw followed by Rossing's field goal gave Armour three points in the first minute of play. Chicago Tech was soon able to tie the score and managed to pile up a 13-6 lead before Armour regained the spirit that was required if victory was to be registered.

Armour Losing Until Last

Baskets by Robin and Beemsterboer in the closing minutes of the first half placed Armour within one point of the leaders when the half ended. Cezar's field goal in the opening minute of the second half gave Chicago Tech a three point lead. Rossing registered a free throw but Chicago retaliated with another field goal to enjoy a 19-15 lead. Yuknis scored his only basket to decrease Chicago Tech's margin to three points. Armour then received three free throws but failed at their opportunity to tie the score.

Shortly after Armour's failure at the free tries, Rutkowski and Ott located the hoop to mark the turning point in the game. Ott's field goal placed Armour into a 21-20 lead, providing Armour with the much needed encouragement that was in demand since defeat commenced to shade their hopes of

(Continued on Page Three)

Begin Preparation For Spring Concert

Nearly all of the campus musical clubs have begun preparations for the Spring Concert to take place May 21st. The concert, held each year during Junior week, consists of presentations by members of the Armour Tech Musical Clubs.

One of the features each year is the Interfraternity Sing. The Phi Pi Phi fraternity by winning the sing last year gained possession of the traveling trophy offered by the Interfraternity Council.

Each year an effort is made to introduce some new feature, thus assuring variety and diversion.

Senior Civils Enter Contest

Professor Heald's senior civil class in bridge design expects to enter several drawings in the annual contest organized by the American Institute of Steel Construction. A prize of five hundred dollars is being offered for the best drawing submitted in the contest.

This is a yearly contest held by the Institute. A preliminary exercise must be submitted by March 14 to be judged by a jury of three nationally known consulting bridge engineers and two equally important architects. These designs must be prepared in nine hours under the supervision of an instructor.

From the designs submitted the jury will select ten for final development. The finished design will then be put into the hands of the judges by April eighteenth and the final judgment will be rendered by the first of May.

All the design data, such as dimensions, shape, and traffic requirements, will be furnished by the Institute.

There are no restrictions except that the student entering must be registered for the school year. Anyone in school is eligible to enter.

The second and third prizes are two hundred and fifty and one hundred dollars, respectively. Last season's prize offer went to John Heckathorn of the University of Idaho.

In order to give the students some extra instruction on the subject, Professor M. B. Wells will give a talk, "Aesthetics of Bridge Design," next Friday at 10:30 in Room B, Mission Building.

A.S.M.E. Has Smoker At Beta Psi House

Beta Psi's house was the scene of the A.S.M.E. smoker Friday, February 20, which was attended by forty of its members. An enjoyable evening was had by all and consisted of progressive bridge and other card games dear to the heart of a hard working engineer. There was a door prize and a prize for the bridge game and this added to the spirit of the evening. The smoker was climaxed by the serving of appropriate refreshments.

Professors Perry and Roesch of the Engineering Department were there and gave short talks concerning the organization. One of the new novelties being inaugurated was the award of a prize for best attendance in A.I.T. Classes. The meeting was opened by C. T. Link, president, after which smoking began in earnest.

W.S.E. Plans Smoker and Inspection Trip

A business meeting of the Armour branch of the Western Society of Engineers was held in Room B, Mission, at 10:30 o'clock last Friday morning.

The chief object of the meeting was to discuss plans for the W. S. E. smoker, which the members intend to have at one of the fraternity houses in the near future.

A committee, composed of P. Jordan, R. Windbigler and B. McLaughlin, was chosen to develop the plans of this social event.

It was also revealed at the meeting that as soon as the weather permits, an inspection trip will be made to the water crib, situated some two miles out in the lake, just opposite the foot of 68th street.

All students who are planning to take Mechanical Laboratory during the summer of 1931 should notify the Dean's Office immediately.

Marksmen Lead in Tribune Meet

At the end of three weeks of shooting the Tech rifle squad leads a field of ten entrants in the meet sponsored by the Chicago Tribune. The contest extends over a period of six weeks, every member of the team shooting one day each week. The team is confident of winning the trophy emblematic of the championship of Illinois. At present the official totals show that our squad is 147 points ahead of the closest competitors, the McHenry sharpshooters.

If they continue to score as effectively for the balance of the meet, the squad men say that the McHenry aggregation will have to show perfect marksmanship to tie or beat them. S. J. Patla, C. E., '33, is at the present time high point man with a total of 567 points. The scores at the end of the third week are as follows:

Team	
D. G. Wilson	565
A. Helmick	555
C. H. Sachs, Jr.	552
W. Hollman	556
S. J. Patla	567

Individual	
L. Hackley	537

Of the ten teams in the Tribune meet four are National Guard squads, two are from American Legion Posts and the remainder well known gun clubs.

In addition to this fine standing the squad won a telegraphic meet from Luverne, Iowa. Two members of this team tied for third place in the Iowa State Schuetzen and one was fifth in standing. The Iowa club is one of the leading rifle clubs in the country. The men consider this victory quite an achievement.

The shooting for all telegraphic competition is carried on in the club quarters located in the basement below the second entrance of Chapin Hall.

Seniors Now Proudly Flashing Jewelry

Seniors who have ordered and paid for their jewelry may now obtain it from T. R. Schueler, chairman of the jewelry committee, or from any of the other members. Those who have not placed their orders yet should do so immediately.

Both key and ring come in either black or red onyx and are decorated with the A.I.T. monogram. The ring has the symbols of the six departments on the shank and is priced at \$8. The key costs only \$5.50.

Calendar

Tuesday, Feb. 24

1:30 P.M.—Meeting of Senior Announcement Committee at Sigma Kappa Delta House.
5:00 P.M.—Orchestra Rehearsal.

Thursday, Feb. 26

5:00 P.M.—Glee Club Rehearsal.
7:45 P.M.—Smoker of Press Club at Sigma Kappa Delta House.

Friday, Feb. 27

10:30 A.M.—A. R. A. Meeting (In Electric Lecture Room.)
10:30 A.M.—Journalism Class.
10:30 A.M.—Professor Well's lecture on "Aesthetic features of Bridge Design." Room B—Mission.

Saturday, Feb. 28

3:00 P.M.—Track Meet—Armour vs. North Central at Naperville.

WOODRUFF, TRIBUNE WRITER TO BE GUEST OF HONOR AT ANNUAL PRESS CLUB SMOKER

Noted Humorist to Display Wit and Wisdom
To Staff Members of Armour
Publications

SCHOMMER TO RELATE EXPERIENCES

Armour Enrolls 24 New Students

Armour Institute is a popular place even during midyear. As one man is dropped there is always another ready to step into his place. There were twenty-six men lost this semester with twenty-four new men received in their place.

Armour now has a total enrollment of eight hundred and five students of which eight are considered special students. Electrical Engineering is seemingly the most popular course since there is a total of one hundred eight-two electricals registered. The Mechanicals come next with one hundred fifty-nine followers at the Institute.

The total enrollment dropped from eight hundred twenty-eight the first semester to only eight hundred and five this semester as compared with an enrollment of eight hundred forty-six for the first semester last year and eight hundred and one the second semester.

Do We Have A Marine Course? Info Wanted

With the envelope addressed to Philip D. Armour, the following letter was recently received by the office:

Dear Sir:

I have received your bulletin and I thank you for it. I reviewed your bulletin from cover to cover, but I am sorry to say, I did not find what I was looking for, and that is Sea Diving.

I have written all Schools, Academies and Technical Colleges about Sea Diving but not one teaches such a course. There must be some place where you can learn. Where did the Sea Divers who are Sea Divers to-day learn.

I would like to ask as a special favor that you try your very best to try and find me a place where I can learn, a little hard but—

NEWS WANTS ASSISTANTS

Business staff assistants and news reporters are wanted by the Armour Tech News.

The former are to make application to J. S. McCall, '32, and the latter to E. W. Carlton, '32. McCall is particularly interested in getting freshmen or sophomores to help in the circulation department of the "News" and Carlton is desirous of getting new men for reporters.

Glee Club Starts Membership Drive

Twenty-four men enrolled in the Glee Club for the coming semester at a rehearsal held last Thursday in the Assembly Hall.

To swell this number to at least thirty-five, freshmen and others are urged and asked to come out for the club. Try-outs are held at every rehearsal.

Not only are men given the privilege of studying under one of the country's best choral directors, but they are also accorded an opportunity to get credit in gym in a pleasant manner.

The club is at present memorizing songs to be given at the Annual Home Concert. All of the selections are new.

Harvey T. Woodruff, the well-known column conductor of the Chicago Tribune, will be the principal guest of honor at the smoker to be given by the Press Club this Thursday evening at the Sigma Kappa Delta house. Every available seat at the fraternity house is expected to be filled to hear Mr. Woodruff speak.

At first the plans were to allow only the members of the staffs of the Armour Tech News, the Armour Engineer, and the Cycle to this smoker, but now, according to A. H. Jens, Press Club president, it may be possible for others to attend.

Woodruff in Demand as Speaker

Professor Schommer was instrumental in securing the services of the famous "waker" for this occasion. After school Schommer is going to corral the speaker, take him to dinner, and personally conduct him to the smoker so that there will be no possible chance for a "slip twixt the cup and the lip," to speak figuratively.

Mr. Woodruff is much in demand as a speaker. His sparkling wit and wealth of stories has made his name famous in the well-tried field of after-dinner and smoker speaking. He has the rare faculty of talking in an interesting fashion about any subject, to any audience. This fact should cause the students to make an attempt to get an invitation from Jens. Furthermore, his breadth of experience in the field of sport writing and column conducting should be of vital interest to Armour journalists.

Schommer to Tell Stories

As an added attraction to the talk to be given by Mr. Woodruff, there is the opportunity of hearing some of "Jawn" Schommer's stories of experience with the finny denizens of the deep or, in other words, fish stories. The entertainment will be rounded out by a brief program followed by the playing of bridge and other games.

Last, but surely not least, is the attention that will be given to the care of the inner man. Old-fashioned stacks of food supplemented by liquids will send the journalists away with a feeling of smug satisfaction and with their belts loosened.

Yzaguirre Made Proud Parent February 16

Manuel Yzaguirre, Ch.E. '31, has become a beaming parent. On Monday, February 16, Mrs. Yzaguirre presented him with a seven pound daughter.

Manuel's reactions are being closely observed by the Senior Chemicals and undue effervescence has been easily noted. It is hoped that the various duties of a family head will not become too absorbing, for after all, there's a thrill in them their flasks and beakers.

NEWS STAFF CHANGES

Two changes have been made in the staff of the Armour Tech News.

M. A. Collick, '32, has been promoted to the position of advertising manager, on a par with H. Monger, '33, present manager.

W. W. Davis, '33, is the new Arx News columnist, being successor to E. C. Kubicek, who was forced to resign because of illness.

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"A stout heart may be ruined in fortune but not in spirit."
—Victor Mario Hugo.
Born February 26, 1802.

Are We Narrow?

Engineers and students of engineering are accused by educators and the public in general of being narrow in their interests. They are said to know or care little about anything not directly connected with their particular field of work and, to a certain extent, to have a rather contemptuous attitude toward non-technical men and subjects.

We, as students of engineering, should be interested in determining the accuracy of this sweeping charge. The chief reason for this attitude on the part of the uninformed laity is easily found in their own ignorance. The mental picture seen by the average man on the street when someone speaks of engineering is a rather hazy one, including an electrician wrapping black tape around wires, a surveyor in knee boots carrying a transit, and a man working with various oil-covered wheels and levers in the cab of a locomotive.

Anyone with such an inaccurate and distorted picture of engineering could hardly be expected to know much about engineers. Therefore, we may safely omit the attitude of the general public from further consideration.

The educators, however, being people of considerable information and intelligence, present a more serious case. Furthermore, they are better acquainted with engineering students than with engineers—a fact that points their accusation more truly in our direction. They deplore the grammar of engineering students in general, and despair of their lack of interest in literature, art, and drama.

We can take some steps toward determining the justice of this attitude toward engineers and engineering students by examining the conditions to be found at Armour.

If interest in our more liberal courses can be considered an indication, we can hardly deny that, as a group, we are narrow. In the courses in history, literature, and allied subjects, the interest is meager and the attendance poor. The work is done, for the most part, with the minimum output of energy.

If the demand for books on liberal subjects can be looked upon as another test, again we fail. An examination of the dates of withdrawal of such books from the school library will show that many of them have been unused for several years, if indeed they have been used at all.

We engineering students are inclined to answer this charge with the statement that the same accusation may be directed toward other professional men such as doctors and lawyers. To any fair-minded judge,

"The Slipstick"

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

EVERY MAN TO HIS OWN

Some are for Ireland,
Others look to Mexico,
But most of us look to Germany,
For both our marks are low.

LET OFF EASY

It was in Arkansas, near the Texas border, that a white man was taken before a colored justice of the peace, charged with stealing a mule and killing its owner. The opening conversation ran thus:

"We've got two kinds ob justice in dis yer co't," began the darky, "Texas law and Arkansas law. Which will you hab?"

The prisoner mused a moment and then replied that he would prefer the Texas law.

"Den I discharge yo' fo' stealin' de mule but I decrees dat yo' hang fo' killin' de man."

"Wait," cried the prisoner, "I'll take the Arkansas law."

"Well, den, I is happy to let yo' go wif a small fine fo' killin' de man, but yo' has to hang fo' stealin' de mule."

She: "Where is your chivalry?"
He: "I turned it in for a Buick."

CONTORTION ENGINEER

Went up with Joe to see Doc. McNamara about a boil on Joe's neck. Doc took a look at it and said, "Well, it's only a small boil there on the back of your neck but you'll have to keep your eye on it."

"How's that boy of yours getting along at the barber college?"
"Fine, they just elected him shear leader."

"No, I mean scholastically."
"Well, do you see that guy over there whose face is all cut up and with his hair looking like he was in a fight? Well my son flunked his final examination on him."
—Wattsit Tuhyuh.

"Dost thou know the difference between a lounging robe and a bath robe?"
"Well—a—, you can lounge in a bath robe, but I'll be durned if you can take a bath in a lounging robe."
—The Co-ed.

BEFORE THE AUTOPSY

Willie: "Ma, if the baby was to eat tadpoles, would it give him a big bass voice like a frog?"
Mother: "Good gracious, no! They'd kill him."
Willie: "Well, he ain't dead yet."

BATTLE SCARRED

An American tourist in England was out sight-seeing. They took him about the old battle-ship, Victory, Lord Nelson's flagship. An English sailor escorted the American over the vessel, and coming to a raised bronze tablet on the deck he said, as he reverently removed his hat:

"Ere sir, the spot where Lord Nelson fell."
"Oh, it is?" replied the American blandly. "Well, that's not surprising. I nearly tripped on the wretched thing myself."
—Dollar Bill.

In this free country every man can maintain his rights if he doesn't care what happens to his fenders.

Appropriate

"What sort of a tablet shall be erected over your grave when you are gone?" they asked the man who had long suffered from stomach trouble.
"Well," said the cheerful patient, "I think a dyspepsia tablet would be as appropriate as any."

Ministers often make bad breaks. One officiating at a funeral was praising the departed and concluded with these words. "Friends, all that remains here is the shell; the nut is gone."
—Pop.

HIGHER MATHEMATICS

An old timer asked us this one the other day, and we thought it was pretty good. "Three frogs wuz sittin' on a lily pad. Two of them took a noshun' to jump off: How many were left?"
Answer—"Three! Because they only took a noshun!"

"Where's your wife?"
"She's at a prize fight."
"Where at?"
"Oh, a bridge party."

With this we end another side-splitting (?) piece of literature for young and old. (Too old to read it and too young to appreciate it.)
—Phil J.

however, this is not truly an answer but merely an evasion.

That evasive attitude on our part is in itself an admission of the truth of the statement.

In view of the conditions just cited, we hardly can reach any conclusion but that, as a group, we are guilty of narrowness.

W. H. R.

Harold Witter Haggard, BY J. R. JACKSON, JR.

(A Biographical Sketch)

Born of American parents on June fourteenth, eighteen hundred and ninety-six, in Impur, State of Assain, India, Professor Haggard was brought to America at the age of four. His parents settled in Watertown, Massachusetts, and it was there that he received his grammar and high school education, staying in Watertown until nineteen hundred and sixteen.

In April of that year Professor Haggard went to Petrograd (now Leningrad), Russia, in order to assist his father in Y. M. C. A. war prison work. Returning to America, he enrolled in the service and was stationed at Camp Mac-Clelland, Alabama, during a part of the summer and fall of nineteen hundred and eighteen.

The next two years were spent studying at New York University, where Professor Haggard became a member of the Delta Phi Fraternity. His college work was then finished at Dennison College, Granville, Ohio, in nineteen hundred and twenty-two.

While at Granville, Professor Haggard became a member of the Dennison Chapter of the American Commons Club, which is a non-fraternity organization, having chapters in a number of the mid-western colleges and universities.

The professor's next move was to Memphis, Tennessee, where he taught mathematics and science in one of the city high schools. After remaining there a year, he went to Peking, China, and taught the same subjects in the Peking American School there.

After being in China for a year, he came to Seattle, Washington, and again became engaged in

Editor's Note: The Tech News, from time to time in the future, will print biographies of faculty members and officers of the Institute.

Y. M. C. A. work. Poor health, demanding a warmer climate, forced the professor to go to Marshall, Texas.

It so happened that while instructing students in mathematics and science at Bishop College, Marshall, Professor Haggard met a young lady who was teaching French and Spanish there. On May twenty-seventh, nineteen hundred and twenty-six, Professor Haggard and Miss Anne Van Koert were married. They now have one child, a boy, named Harold Wallace, who was born October twenty-six, nineteen hundred and twenty-nine.

Leaving Marshall, Professor and Mrs. Haggard came to Chicago in the summer of nineteen hundred and twenty-seven. Once here, the professor took the summer graduate work in mathematics at the University of Chicago, and then started teaching at Armour in the fall of that year.

An aerial survey of Porto Rico will be undertaken in December by United States naval aviators at the request of Governor Theodore Roosevelt.

Twenty new radio telegraph stations are to be established at isolated points in the Philippine islands where the people have no means of communication.

ALPHA CHI SIGMA PLEDGES
Last Thursday noon Alpha Chi Sigma, professional chemical engineering fraternity, pledged five men. A list of the pledges is given below:

O. J. Spawn, '32.
A. H. Helmick, '33.
S. Johannisson, '33.
S. E. Winegar, '33.
A. M. Ream, '33.

LIBBY AT CONVENTION

Professor Libby of the department of refrigeration engineering attended a convention of the National Association of Practical Refrigerating Engineers at the University of Illinois, February 20 and 21.

Addresses were made by many leading men in the field of refrigeration. The members made a tour of inspection of the laboratories of the university.

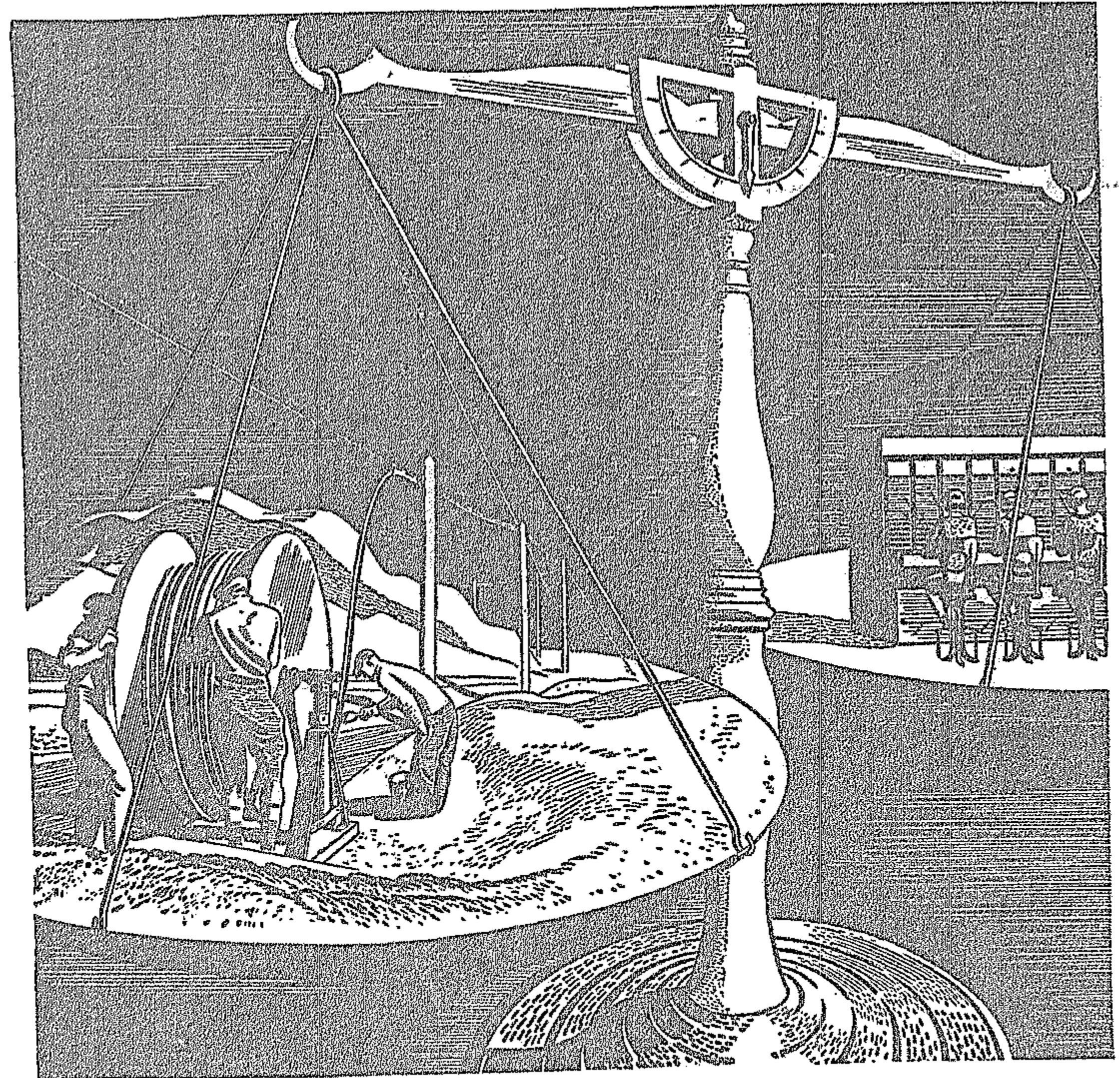
Mexico exports more than 6,000,000 bunches of bananas yearly.

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STEPPING INTO A MODERN WORLD



Striking a balance
for a \$4,000,000,000 industry

"On a large scale" describes accounting in the Bell System, whose properties cost more than \$4,000,000,000.

On the outgo side are, for example, four or five hundred million dollars annually for new construction; vast sums for keeping telephone equipment in good order; a payroll running into hundreds of millions a year. Under in-

come are such diverse items as a few cents for a local telephone call, or thirty dollars and upward for a call to a city across the Atlantic.

The men responsible for this phase of the telephone business have worked out scientific methods of control—but their effort to refine old practices and devise new ones goes on. *The opportunity is there!*

BELL SYSTEM



A NATION-WIDE SYSTEM OF INTER-CONNECTING TELEPHON

Arx News

We've heard of Kipling's immortal "Boots," and of our old song, "Hail—Hail," but we really think they should write one for the architects. Our suggestion for a title would be "Mumps." And then if someone would become inquisitive enough to ask the reason, we would disclose the fact that three of the striving pencil-pushers had the mumps within two weeks. The victims were Vaughan, Bartlett and Shonka. We wonder who is next? Well, if you can't find the "Arx News" next week you'll know what happened.

The Sophomore Archs have been studying a sketch problem which was a little theatre for a small dramatic group. It was something quite new and foreign to our past subjects, so Professor Read succeeded in getting permission to go through the Kenneth Sawyer Goodman Art Theatre in the Art Institute. The trip proved to be of great help in designing the problem.

Instead of having scene shifters and such, the students there, build the scenery upon small moving platforms which run on tracks. They have one for each scene. Thus scene changing is quick, simple, and decidedly effective. This is just one of the many novel ideas.

In the Tribune of February 8, in the rotogravure section, were pictures depicting the present day styles in architecture. If you can get hold of that section, you architects, get busy with your little shears and put those pictures in your scrapbook.

Thomas E. Tallmadge, a member of the American Institute of Architects, says:

"The skyscraper built on a skeleton frame, invented and developed in Chicago about eighteen hundred and eighty-five, is America's great contribution to architecture and the science of building. Pressing toward the goal of efficiency, the architect has discovered unguessed beauties in stark engineering, and in the utilization of new materials, such as new metals and structural glass."

Basketball Season Ends With Victory

(Continued from Page One) setting a fitting climax to the basketball season.

Score Tied Again

Chicago Tech again knotted the score but soon lost the lead when Omiecinski sank a basket from mid floor. Another basket by Omiecinski, together with baskets by Beesterboer and Ott, helped to swell Armour's lead rapidly until the final 33-26 result was established.

BOX SCORE

Armour—33			B.	Ft.	P.
Robin, f.	1	0	3		
Rossing, f.	2	1	4		
Beemsterboer, c.	3	4	3		
Rutkowski, g.	1	1	4		
Omiecinski, g.	2	0	2		
Yuknis, g.	1	0	4		
Ott, f.	3	1	0		
O'Connor, g.	0	0	1		
	13	7	21		
Chicago Tech—26			B.	Ft.	P.
Cosme, f.	0	2	1		
Cezar, f.	4	4	2		
Peterson, c.	3	0	4		
Dietz, g.	1	2	3		
Lyons, g.	0	0	4		
Mai, g.	0	1	3		
Beckerling, g.	0	0	1		
	8	10	18		

PHI LAMBDA UPSILON MEETS

A business meeting of Phi Lambda Upsilon, Honorary Chemical Engineering Fraternity, was held in the chapter rooms last Wednesday. The regular business of the fraternity was attended to and plans for a unique program for the semester were discussed.

Inquiring Reporter

Question: What do you think of the new lighting equipment that has been installed in the electrical and chemical laboratories?

H. W. Richter, E. E., '32.—The type and intensity of illumination in the E. E. Lab is a great improvement. I think that it would be a good idea to install some such system in the library.

R. J. Abramson, E. E., '31.—I believe that the new lighting system in the labs and the proposed lighting system of the Electric Lecture room will be a great aid to the students as it will lessen eye strain. I hope that in the near future the entire building will be so lighted.

E. W. Job, E. E., '33.—It is a very great improvement over the former system and I find it much more pleasant to work in the lab now. We will study electric lighting in a short time and will then appreciate it more fully.

Milton L. Priban, E. E., '33.—I think that the new system is a great improvement over the old. Experiments can be performed more efficiently, and the laboratory can be used as a study room.

Charles Blahna, E. E., '31.—The new system is something that has been needed in the lab for a long time. Now it is possible to work there with greater efficiency. It will be fine when the new lights are installed in the Electrical Lecture room.

W. Sandstrom, E. E., '32.—It is a very noticeable addition to the lighting system as it was almost impossible to work in the lab under previous conditions.

NEW BOOKS

NON-TECHNICAL
Penguin Island
Anatole France

Arrowsmith
Sinclair Lewis

TECHNICAL
Principles of Chemical Engineering
Badger & McCabe

American Practical Navigator,
1930 Ed.
Nathaniel Bowditch

Spirit of Chemistry
Alexander Findlay

Sound Projection
Rudolph Miehl

Wave Mechanics
A. J. W. Somerfield

Textbook of Sound
A. B. Wood

Matter and Energy
Gerald Wendt & Oscar F. Smith

Plan School-Wide Boxing Tournament

Inquiry among the various entrants in the Armour Tech boxing tournament has revealed that all of the contestants at some time or other engaged in fistic encounters, both in the ring and otherwise, which all goes to indicate that heated strife will characterize the bouts.

Although the entry at present is not large, talks among the students, which result in dares and arguments, will probably induce more to enter.

This is the first school-wide tournament held at Armour. There is no reason why there cannot be ample representation in every weight, especially in an institution which has over 800 men students.

Those who contemplate entering should do so immediately so as to speed up the arrangements for the actual fights.

Every man, regardless of the amount of experience he has had, should take advantage of this opportunity to gain some useful knowledge and self-confidence.

Madera, Cal., has approved the establishment of a municipal airport.

Injuries Force Pugs To Cancel Two Bouts

Injuries to four of Coach Weisman's leather pushers, leaving a balance of only six eligible fighters, necessitated the cancellation of two out of town engagements, in which the squad was slated to appear. The meets were to have been held at Springfield and Bloomington, Ill. Negotiations had been completed for the appearance of the Armour Tech pugs, but as the expenses of the Tech squad were to have been paid entirely out of gate receipts, it was deemed justifiable, in as much as injuries had cut down the active roster of the team, to cancel the dates. Never in the history of the Armour Tech boxing team have injuries exacted such a toll, and interfered so seriously with its progress.

In spite of all these bad twists of fate, an agreement has been reached between Manager Cannon and the athletic representative at Loyola University to hold a series of bouts, one at each school, in the very near future. Loyola is noted for the high caliber of their athletic squads and the boxing team is probably no exception. On this basis, the appearance of these two aggregations in the same ring should provide some lively action.

Manager Cannon is dickering with other athletic organizations in the city in an effort to arrange a card in the Tech ring.

Metallurgy Lab On Chemical Phone Line

In line with the general trend of improvements around the school, the chemical department has added to its phone system by including the metallurgy laboratory in the circuit.

The new line will connect that laboratory with both the storeroom on the third floor and Professor McCormack's room in the offices of the department, this will greatly facilitate business between these points.

FRATERNITY NOTES

PHI KAPPA SIGMA

The following pledges were initiated last Friday into Alpha Epsilon of Phi Kappa Sigma: Donald L. Jacobson, F.P.E. '34; Carl H. Sacho, F.P.E. '34; Russel F. Sullivan, F.P.E. '34; and Paul J. Thompson, E.E. '34, before a record attendance of three hundred Phi Kaps, who assembled at the Union League Club for the first annual tri-chapter initiation. The nine grand officers of the Fraternity were present in addition to representatives from nine of the "Big Ten" chapters. A banquet followed and Hon. Clyde E. Stone gave the address of the evening.

The Informal Dance held Saturday night at the house was one of the most successful of the year. Cope Harvey's Blue Devils furnished the music. Guests from five other chapters were present to enjoy the dance.

SIGMA ALPHA MU

Sigma Epsilon Chapter is pleased to announce the transfer to Armour of Aaron Poriss from the Sigma Eta Chapter at Purdue University. Poriss is a sophomore in the department of Civil Engineering.

THETA XI

A radio dance is to be held at the chapter house this Saturday evening, February 28th.

Brother Lopate, of the Epsilon Chapter, Columbia University, honored the fellows at the house with a visit, last Friday.

Brother Lopate, after graduating from Columbia last June, spent several months in Paris and is now

on his way to Shanghai, China, to aid his father in business.

Pledge Brother Monberger, of the Sigma Chapter, at Michigan, also dropped in at the chapter house last week, during a visit to Chicago.

BETA PSI

Francis Austin, F.P.E. '31, served ice cream and cake to the Beta Chapter in celebration of his engagement to Miss Bertha Oestreicher which was recently announced.

Saturday, February 21, E. A. Wegner, E.E. '32, began his Probation week preparatory to initiation on March 2.

Brother Maxcent from the Alpha chapter of University of Illinois, dropped in to pay us a visit.

SIGMA KAPPA DELTA

The annual initiation banquet held on Saturday, February 14, was attended by following personages: Prof. Heald, faculty member; Fred Payne of the Indiana Inspection Bureau; Kramer of the Ohio Inspection Bureau; Sandborn and Snyder of the Wisconsin Bureau; Strauch, C. E. Herbst, C. A. Herbst, H. W. Herbst, Ross, Linnell, Kilbourne, Moorhousen, Voita, Andrews, Newlin, Tschudy, Ranson, Cornwell, Cook, Grubb, and Cowen, who are alumni and former Armour men.

TRIANGLE

Eleven pledges are now in the second week of probation which is better known as Hell Week. Initiation will take place Sunday afternoon at the chapter house. A banquet in honor of the new brothers will immediately follow at the Chi-

cago Beach Hotel where J. W. McCaffery will be toastmaster.

DELTA TAU DELTA

The departure of James McAlear necessitated the election of a new chapter president. As a result of the elections, the following men now hold office:

A. Julian Lenke—President.
John R. Jackson, Jr.—Vice-President.
Walter H. Larson—Corresponding Secretary.

Radio Association Meets Next Friday

Next Friday, at 10:30 in the Electric Lecture room, the Armour Radio Association will have a meeting at which plans for the conduct of the Institute radio station will be formulated. The station, which is now in operating condition, is under the direction of E. G. Squires, chief operator. Anyone wishing to become a member of the Association should attend this meeting.

SENIOR COMMITTEE MEETS

The Announcement Committee of the Senior Class will hold a meeting today at the Sigma Kappa Delta House. The meeting will take place at 1:30 p. m. All members of the committee should be present for the policy of the committee will be developed.

Among the enemies of American fish are the kingfisher, the great blue heron, otter and mink, the latter two not only killing for food but also for love of killing.

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LOYOLA DEFEATS TECH TRACK MEN IN DUAL MEET, 55-22

**Wins Seven First Places,
Avenging Last Year's
Defeat**

C. J. JENS WINS SHOT PUT

Loyola University, winning seven first places, defeated Armour 55-22 in Tech's first indoor dual track meet of the 1931 season last Saturday at Bartlett Gymnasium.

O'Neil of Loyola starred for the victors by winning first place in the half and one mile runs.

C. J. Jens of Armour copped first place in the shot put, tossing the shot 38 feet. He has constantly bettered his distance since the beginning of the season. This throw was one foot more than his best heave in last week's Informal Meet.

Armour's Relay Wins

Captain H. L. Fox and K. S. Hirsch took second and third place respectively in the 440-yard dash. The event was won by Mann of Loyola in 53.6 seconds.

Armour's four man relay team composed of A. H. Jens, Helmick, Hirsch, and Captain H. L. Fox defeated Loyola in the fast time of 2:16.8 seconds. Each man ran two laps, thereby running each lap in approximately 17 seconds.

Brookins, Iowa Star, Judge

A. H. Jens and Captain F. M. James ran second in the 50-yard dash and the two mile run respectively. Loyola won all three places in the high jump and the 880-yard run.

C. Brookins, ex-track star of the University of Iowa, was field judge of all events. He holds the world's record of 23 seconds for the 220-yard low-hurdles without starting blocks.

C. H. Fox Out Indefinitely

C. H. Fox, '32, will be out of track competition for several weeks because of a bone he broke in his ankle while hurdling last Friday night. He is following Hank Bruder's example of Northwestern. Last year he had to quit school because of scarlet fever. The year before he was out because of pneumonia. The track team wishes him a speedy recovery.

The team will probably enter the triangular meet at Naperville next Friday night between North Central, Loyola, and Armour. The men will leave the Union station at 6 p. m.

SUMMARIES

50-yard dash—1st heat, won by Mann, (L); second, A. H. Jens, (A); third, Schroeder, (L). Time—5.6.

50-yard dash—2nd heat, won by Chaplan, (L); second, Marcen, (L); third, Helmick, (A). Time—5.6.

50-yard dash—Finals, won by Chaplan, (L); second, A. H. Jens, (A); third, Mann, (L). Time—5.5.

One mile run—Won by O'Neil, (L); second, Healy, (L); third, Iverson, (A). Time—4:35.2.

440-yard dash—Won by Mann, (L); second, H. L. Fox, (A); third, Hirsch, (A). Time—53.6.

50-yard high hurdles—Won by Lebbberman, (L); second, Crank, (L); third, Oberbeck, (A). Time—7.4.

Two-mile run—Won by Murtough, (L); second, James, (A); third, Rall, (A). Time—10:35.8.

Shot put—Won by C. J. Jens, (A); (38 feet, 0-1/2 inches); second, Walsh, (L); (34 feet, 2 inches); third, Fors, (L); (32 feet, 6 inches).

880-yard run—Won by O'Neil, (L); second, Healy, (L); third, Johnson, (L). Time—2:03.8.

High Jump—Won by Walsh, (L); second, Canterbury, (L); third, Schraeder, (L). Height—5 feet, 8 inches.

8 lap relay—Won by Armour, (A. H. Jens, Helmick, Hirsch, H. L. Fox); second, Loyola. Time—2:16.8.

Wyoming claims its university is the highest institution of learning in the world as it is located in the town of Laramie, 7,000 feet above sea level.

Radio imports to the Argentine from the United States grew from less than \$700,000 valuation in 1926 to \$1,775,531 in 1929.

Cagers Beat "Y" College Quintet

Chicago "Y" College, conquerors of Coach Kraft's basketball quintet in the early season, were obliged to atone for their victory last Tuesday when Armour outscored them 37-24 in the last home game of the season.

This victory marked Armour's seventh of the season. It gave evidence that Armour's basketball team possessed the real "come-back" qualifications as "Y" College had defeated Armour 33-24 in the first game between these teams.

The visitors were hopelessly outplayed and outscored in the first half. Robin and Rossing entered into a scoring spree which enabled Armour to accumulate a 14 point lead, ending the half 20-6.

Beemsterboer shouldered the bulk of the scoring attack in the second half, netting Armour 7 points. Baskets by Robin, Rutkowski and Yuknis further aided Armour in increasing their lead. Meyer, Chicago "Y" College's scoring ace, again crashed through with a large contribution of points. In the last game between these teams, Meyer scored 15 points and was almost solely responsible for Armour's defeat.

BOX SCORE Armour—37

	B.	Ft.	P.
Robin, f.	4	1	0
Rossing, f.	3	3	2
Beemsterboer, c.	3	3	2
Rutkowski, g.	2	0	2
Omicieński, g.	0	1	4
Yuknis, g.	2	1	2
Ott, f.	0	0	0
Lind, f.	0	0	1
	14	9	13

"Y" College—24

	B.	Ft.	P.
Meyer, f.	4	4	0
Wosick, f.	1	0	2
Wilson, f.	3	1	1
McFarlad, c.	0	1	1
Sanduig, g.	1	0	0
Pimm, g.	0	0	3
Showley, g.	0	0	4
	9	6	11

INDIVIDUAL SCORING 1930-31

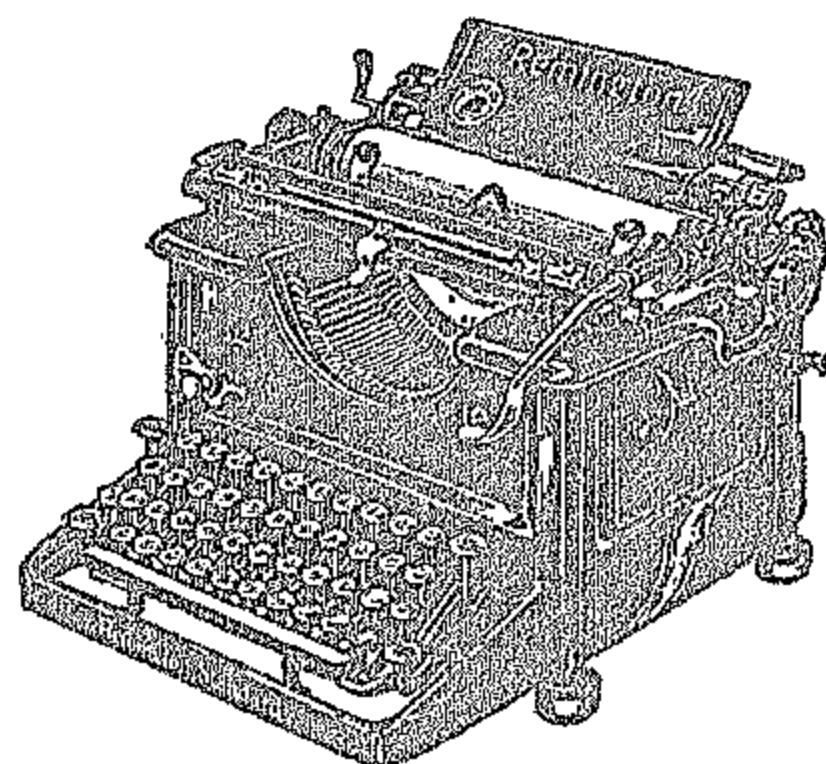
	*F.G.	F.T.	T.P.
Rossing	46	24	116
Robin (Capt.)	32	15	79
Ott	21	16	58
Beemsterboer	19	14	52
Miran	15	5	35
Gustafson	8	9	25
Lind	6	5	17
Yuknis	4	3	11
Omicieński	3	5	11
Moskowitz	2	..	4
O'Connor
Kukulski
	161	98	420

*F.G., field goals; F.T., free throws; T.P., total points.

In the present senior class at Harvard there is one prospective bear tamer and one student who considers writing epic poetry as his vocation.

An 18 inch loving cup was awarded the student growing the longest beard before the Vanderbilt game, at the University of Tennessee.

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TECH SWIMMERS DEFEATED BY CRANE, 40-33

**New School Record
For 160 Yard
Relay**

THOMPSON COPS DIVING

Lady Luck was against the Armour swimmers last Tuesday when they were defeated by Crane College 40-33. The battle turned out to be a stiff one due to good reinforcements for both teams during the last year. Three records for Armour competition had to be broken to do the trick.

In winning the relay the Armour mermen chopped two full seconds off the old record. The new mark is 1:21.4. As had been expected, the combination of Giovan, Carlstrom, Byanskas and Captain Knox as anchor man was impossible to beat. Knox put in a wonderful sprint in order to make the record time possible.

Cavanagh Loses By Inches

As usual Thompson was in good form for the springboard parabola event. His dives far overshadowed those of his opponents.

The most valuable addition to the team this season has been Eddie Byanskas. His fast work in the crawl at shorter distances has been very consistent.

Jack Cavanagh was just touched out by Bizzelle of Crane in the 100 yard breast event. He was creeping up on the West side man at a rapid pace as the finish neared, but could not quite make it.

A return meet with Crane is expected in the near future.

RESULTS

160 Yard Relay—Won by Armour (Giovan, Carlstrom, Byanskas, Knox); second, Crane. Time 1:21.4 (new Armour record).

100 Yard Breast-stroke—Won by Bizzelle, C.; second, Cavanagh, A.; third, Ladoff, C. Time 1:15.4.

40 Yard Crawl—Won by Jacobson, C.; second, Knox, A.; third, Byanskas, A. Time 0.21.

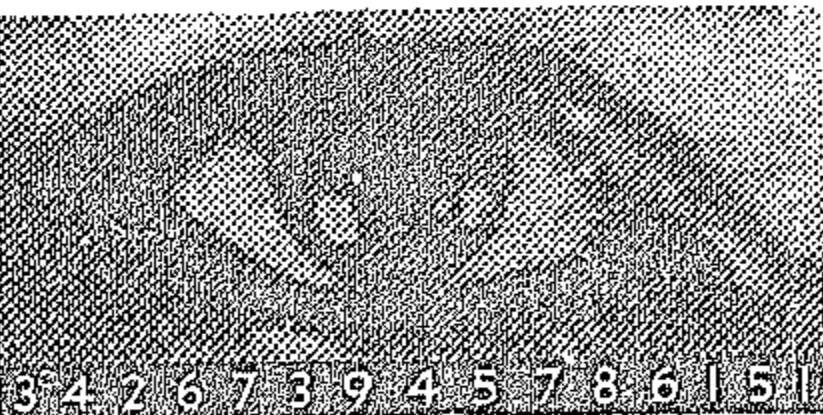
220 Yard Free-style—Won by Weston, A.; second, Hellard, C.; third, Davisson, A. Time 2:42.2.

100 Yard Back-stroke—Won by Jacobson, C.; second, Marlborough, C.; third, Weston, A. Time 1:12.4.

100 Yard Free-style—Won by Kumskis, C.; second, Knox, A.; third, Singer, C. Time 0.61.1.

Fancy Diving—Won by Thompson, A.; second, Brucer, C.; third, Blue, C.

300 Yard Medley-Relay—Won by Crane (Marlborough, Bizzelle, Kumskis). Time 3:26.



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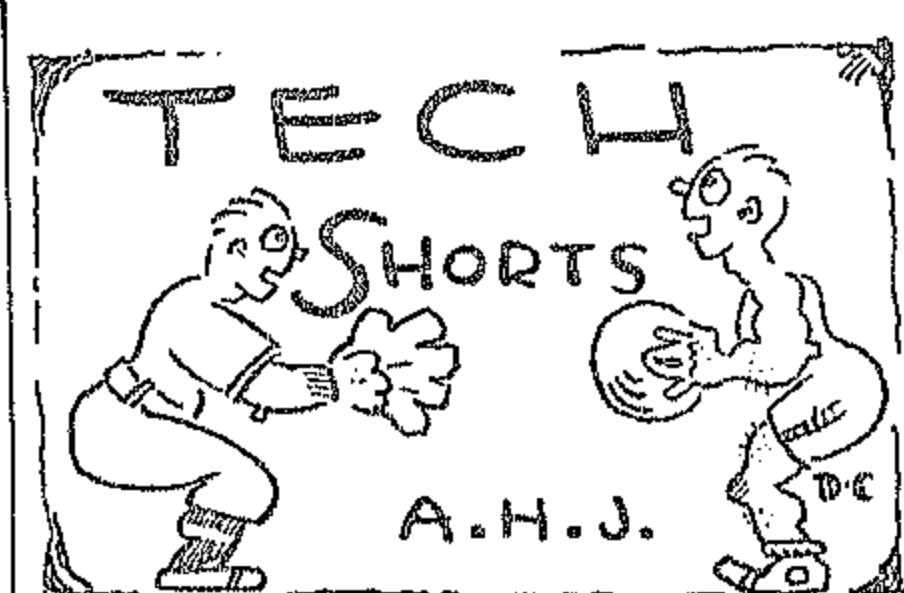
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Tech Batteries Now Practising

Coach Kraft's baseball prediction for 1931 is that Armour will find a difficult task in upholding the records of former years. The sport of baseball seems to have succeeded as the best of any of the category of sports supported by Armour teams. Victorious seasons have been plentiful in past years, but the promises of this season at this date are not pleasing, being the worst they have been for five or six years.

A few good men from last year's team were lost because of graduation. These vacancies, coupled with those caused by men dropping out of school, leave gaping holes in the team. The positions which are most needful of someone to fill are those of relief pitcher, outfield men, second baseman, shortstop and third baseman. Reserve men are needed for most of the other positions. This means that there are five or six positions to be filled by new men. From this we gather that a new man will have more than the usual chance to make the team.

The pitchers and catchers are now working hard in the Armour gymnasium. This early season limbering up of the batteries is necessary in order to have them in good condition for batting practice as soon as the outdoor season opens. The rest of the team will probably receive their call to action about March 16. It is hoped that the turnout at that time will consist of a large number of new men. Hard work by the team coupled with strong support from the student body will build up a championship team if anything will.



Lime Light

It has been some time since we discussed Tech Athletic teams and their respective records. Basketball has been in the lime light for quite a spell. The first game was played early in December and the last was played with Chicago Tech last week.

Elusive to Say the Least

Records, the thing which an outsider gauges a team by, are to some extent misleading. For instance a team may win a large number of games from weak opponents while another might win but half of their games from strong teams. Then, too, practice facilities, equipment, coaching, arrangement of schedule and physical condition of the team must be considered when comparisons are made.

A Pat on the Back

Those men who have practiced with the team daily are to be commended. Any man who will travel to the Armory for practice deserves credit, especially with the scholastic requirements of Armour as they are.

Just Supposin'

What we are getting at is the record of the varsity basketball squad made during the past season. The team engaged in thirteen games, not including practice games. Of these, eight were won and five lost, a record considerably better than in the past four years. When we consider that the

LATE SPORTS

Culver defeated Armour's swimming and boxing teams last Saturday at Culver, Indiana. The mermen lost 35-24, while the boxers lost all of their six matches.

squad lost two star guards in as many weeks the record of the team is favorable. Had Gustafson and Miran been able to play the entire season, several of these close scoring games may have resulted in Tech victories.

What'a Class Them Seniors

They tell us that the Class of 1931 are Interclass Track Champions for the third consecutive year. This is highly gratifying and fortunate for had the '34 lads won, there would be little room for any other than freshmen around Tech. We cite this from experience when the frosh copped baseball and then basketball championships.

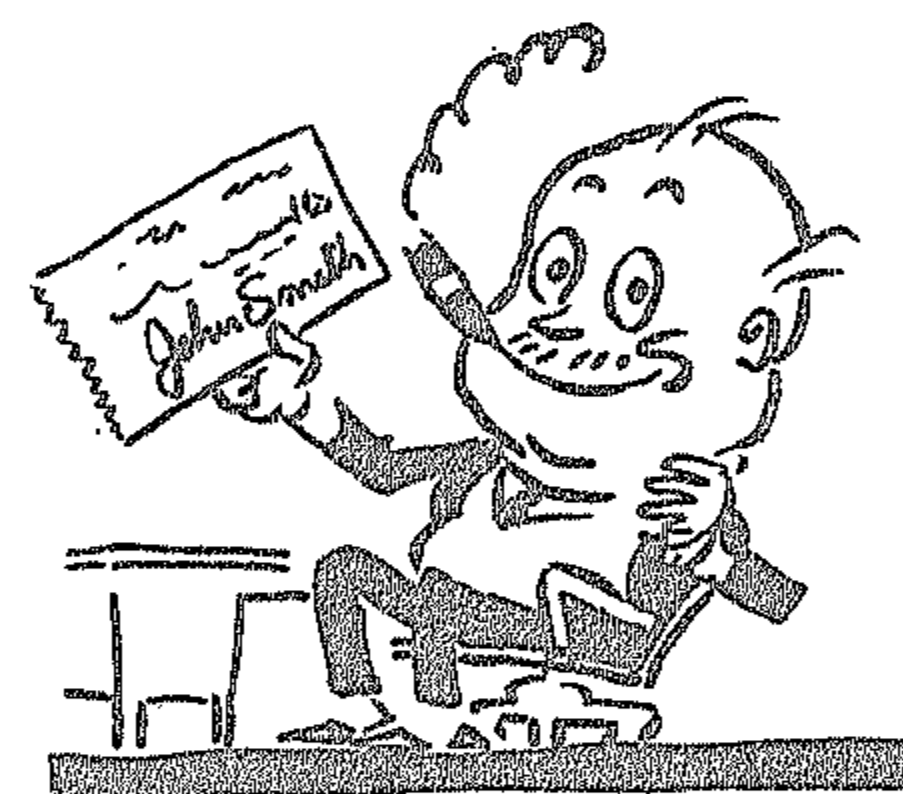
Come Early to Hear Woodruff

Speaking of sports reminds us that a foremost authority on sporting events is to speak to Armour students on Thursday night. Harvey T. Woodruff, conductor of the "In the Wake of the News" column and former sports editor of the Chicago Tribune has promised to address a smoker of the Press Club. As an added feature, John J. Schommer will also speak with Mr. Woodruff. We understand that Schommer and Woodruff have spoken from the same platform many times. For additional information on this subject please see the first page of this paper.

What's One More or Less

Another track meet has been added to the varsity schedule. This is with North Central at Naperville to be held on Saturday, February 28.

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