



Armour Tech News



Vol. VIII No. 13

Armour Institute of Technology, Chicago, Illinois

Tuesday, January 12, 1932

STUDENTS URGED TO REGISTER IN CLASSES EARLY

Plan Tried Last Year
To Be Used
Again

CONFUSION ELIMINATED

Although the regular registration day for next semester has been set for February 8th, students will be given the opportunity of registering early. This plan of early registration was tried out last year and proved very successful in avoiding confusion and waiting. Of course the student registering early must be reasonably sure of his next semester's program.

Tuition and fees may be paid on Wednesday, Thursday and Friday, January 27, 28, and 29 and on Monday and Tuesday, February 1st and 2nd, between 9:30 A. M. and 1:00 P. M.

Payment may be made by personal check, cashier's check, or money order made payable to the Armour Institute of Technology.

Registration will be by departments as listed. Students will then pay in the Cashier's office on the second floor, Main Building.

Register as follows:

Mechanical Engineers, in the Mechanical Laboratory, basement of Main Building.

Civil Engineers and Architects, in the office of the Civil Engineering Department, 2nd floor, Chapin Hall, 3327 Federal Street.

Chemical Engineers, in the office of the Chemical Engineering Department, fourth floor, Main Building.

Fire Protection Engineers, in the office of the Deans, Main Building.

Enrollment in classes may also be completed on the days mentioned by presenting receipts and tentative programs to the instructors.

For those who are unable to take advantage of early registration, the above program may be followed on Monday, February 8th.

News Staff Positions Open to All Students

Freshman and sophomore students are invited to try out for places on the staff of the Armour Tech News. Men who have had previous experience, and new men are urged to report at the News Offices at 3329 Federal Street on Friday evenings after 5 o'clock.

The work involves writing stories, heads, interviewing of faculty members, speakers, and students, proof reading and general newspaper work at the printer's.

Valuable experience not otherwise available can be acquired through publications activities. Successful efforts are regularly rewarded by appointments to staff positions which eventually lead to editor-in-chief and associate editors.

Opportunities for business experience are open to those interested in that line. This work includes selling of advertisements, subscriptions, and general business experience.

All those interested are asked to be present at the News office this Friday at 5 o'clock, ready for work.

A. I. Ch. E. Will Hold Meeting This Friday

Bruce K. Brown, a patent attorney for the Standard Oil Company of Indiana, will talk on "Patent Law in Engineering" at the first meeting of the Armour branch of A. I. Ch. E. this Friday, January 15.

The meeting will be held at 10:30 A. M. in the Physics Lecture room and should be well attended by everybody, especially seniors, since they are studying the subject at this time.

G. E. Film Shown To A. I. E. E. Men

Last Friday, January 8, the A. I. E. E. held a meeting in Science Hall at which four reels of motion pictures were shown. As was the case at the previous meeting the General Electric Company donated the films. The subjects, taken from the G. E. "Marvels of Science" series, were:

1. Conquest of the Cascades.
2. Induction Voltage Regulators.
3. Vitreous Enameling Process.
4. Cascade Mountains were first crossed by a railroad in 1902, when the Great Northern Railway accomplished this task. In 1909 they completed a tunnel two and a half miles in length. This sufficed until 1925, when, due to the high maintenance cost of snow sheds, they decided to bore another tunnel eight miles in length, to eliminate the major part of this difficulty. This undertaking was accomplished in 3 years by simultaneously boring from both ends and from the center outward. The completed tunnel was twenty-two feet high and sixteen feet wide.

Induction voltage regulators are "the middle-man between voltage supply and demand", their time of response being one-quarter of a second. Their present high state of development required 40 years of engineering and operating practice. The two reels devoted to this subject covered in detail the entire construction of these useful pieces of equipment.

The General Electric enameling furnace has the special feature of taking in the work at a point below the heating element, thus conserving a considerable portion of the heat that is lost in other types of furnaces. This furnace can handle 5,000 to 6,000 pounds of cast iron per hour, or 4,800 pounds of sheet steel per hour.

Professor Scherger To Lecture at Sinai

Dr. George L. Scherger, head of the department of history, will deliver a lecture every Friday evening at 8:15 P. M., at Sinai Temple, 4600 South Parkway.

This program of lectures is intended to serve as a story of the personalities who have created and advanced the modern modes of civilization and thinking.

There are some who believe that the voices which called man "to prayer" no longer exist. But whether with us or not, their work abides and still leads men to adventure.

In order to present the work of these men to the public, Dr. Scherger, yielding to popular demand, will lecture on the following:

Jan. 8—Gandhi—The Voice of present day India.

Jan. 15—Briand—The Voice of Conciliation.

Jan. 22—Ramsay MacDonald — The Voice of present day England.

Jan. 29—Mussolini — The Voice of Fascist Italy.

Feb. 5—Stalin—The Voice of Bolshevik Russia.

Feb. 12—Lincoln—A Man for the Ages.

Feb. 19—Bruening — The Voice of new Germany.

Feb. 26—Thomas Jefferson—The Father of Democracy.

Mar. 4—Goethe—The Apostle of Culture.

Mar. 11—Emerson — The Voice of Idealist America.

Mar. 18—Tolstoi — The Count who Lived Like a Peasant.

Mar. 25—Schopenhauer — Exponent of the Philosophy of Pessimism.

Apr. 1—Nietzsche—The Philosopher of the Superman.

Apr. 8—Robert Browning—The Mystic Poet.

F. U. SMITH SENDS GREETINGS

F. U. Smith, Secretary and Comptroller of Armour Institute until September, 1920, sent Christmas greetings to his many friends of Armour through the Armour Tech News.

SELECT PICTURES NOW

The members of the faculty and students who have had their pictures taken for the Cycle at Bloom's Studios should make their selection immediately.

If the proof to be used be marked on the back, and the proofs deposited in the Cycle box in the bookstore, they will be sent downtown without delay.

Play Presented At Yule Concert

This year's Christmas Concert took place on the Thursday morning before the holidays. The Armour Tech Musical clubs give a concert every year before the holidays, but this year, from the opinion of most of the students and faculty, they put on the best one in a long time.

The musical clubs consist of the orchestra, glee club, Stresses and Strains, and the newly-formed band. Besides these, the Dramatic Club, another recently formed organization, gave a short, one-act play. From the remarks of the audience it was evident that all the older organizations improved wonderfully, and that the two newer ones had a permanent place in the school. The Dramatic Club, especially, started the students. Its formation was looked upon with levity and many went to the concert prepared to joke at the play. However, the performance was received with genuine pleasure and their next presentation is expected to be a real treat.

A great amount of preparation on the part of all the students resulted in the following program:

"Poet and Peasant," by Von Suppe, was the opening piece played by the orchestra. This was followed by a violin solo, "Cavatina," by Raff, played by Philip Korrell. The orchestra then played a medley of Christmas songs, "Beneath the Holly." Stresses and Strains, our popular-music orchestra, played four numbers, including "Goofus," with Earl Bollinger at the piano, Bernard Loesche and Paul Trempier at the violins, and Walter Hornberger on the bass.

The Glee Club gave as its contribution in the concert four songs, and its new quartet sang "Sylvia," by Oley Speaks, and a new Christmas carol written by Dr. Protheroe. "A Night at the Inn" was then enacted by the Armour Players. The band played as its part two marches, "National Emblem," by Bagley, and "The Thunderer," by Sousa, under the direction of Walter Hornberger.

The entire program was arranged by the Musical Clubs officers and they deserve credit for the well-balanced performance. These officers are: J. E. Walker, president; J. S. McCall, vice-president; E. W. Carlton, business manager; T. A. McGill, secretary-treasurer; Professor C. W. Leigh, faculty adviser.

Junior Chemicals to Visit Glass Company

Due to a change in arrangements, the junior students in the department of chemical engineering will make an inspection trip to the Inland Glass Company in Clearing, Illinois, someday this week.

The date has been tentatively set for Friday, and definite information will be posted on the bulletin board in due time.

F. B. ATTWOOD VISITS SCHOOL

F. B. Attwood, '31, a former Editor-in-Chief of the Armour Tech News, visited the school last Thursday. He did some work in the Industrial Chemistry Laboratory while at the Institute.

A Christmas card was received by the News from Fred Attwood wishing the "Noes" gang a Merry Christmas. Attwood is now selling filtration equipment and a solution for locker room floors to prevent "Athlete's Foot."

SOCIAL MEETING OF NEWS STAFF IS HELD TONIGHT

All of the members of the staff of the Armour Tech News have been invited to attend a social gathering at the home of Professor Walter Hendricks, 5523 University Avenue, this evening at eight o'clock.

The purpose of the meeting, besides being a get-together of those who work on the News, is to announce and install the members who are being promoted to new positions on the staff. It is customary for the editors to turn over the reins to the new men in the middle of the year so that they may remain as an advisory board to help out until things are running normally.

Reviewing the similar meetings of last year, it is probable that the greater part of the evening will be spent in smoking, card-playing, and entertainment.

A crowd of approximately fifty editors, assistants, reporters, and miscellaneous workers are expected to be present. Everyone in any way connected with the Armour Tech News is urged to attend.

Students Advised to Make Programs Early

Dean Penn has requested that students make out their programs as soon as possible. In this way a delay that often occurs between semesters may be eliminated.

Any conflicts in the schedule should be reported to the Dean's office at once.

The present program, posted in the main lobby, shows an important change as regards freshmen classes. All freshmen will take shop in the afternoon, instead of in the morning as has been the custom during the last five years.

This choice has come about as a result of trial. Afternoon shop for freshmen had been the custom for thirty years, but it was thought that offering shop in the morning would result in more efficient programs. This system was then tried for the last five years, but was found to be less efficient, and has now been discarded in favor of the old plan.

Aurora-Armour Club Has Holiday Meeting

The holiday meeting of the Aurora-Armour Club was held Saturday evening, December 26, at the home of T. W. Twichell, E. E. '99.

The business meeting included the election of officers for the following year. New officers are Ray Winser, '08, President; Otto Staib, '33, Vice-President; and Harold Bodinson, '33, secretary-treasurer.

CALENDAR

Tuesday, January 12

4:30 P. M. Basketball, Y. M. C. A. College vs. Armour at Armour.

5:00 P. M. Orchestra Rehearsal.

8:00 P. M. Armour Tech News Smoker at home of Professor Hendricks.

Wednesday, January 13

8:30 P. M. Boxing, 124th Regiment Armory vs. Armour at 52nd Street and Cottage Grove Ave.

Thursday, January 14

3:30 P. M. Swimming, Crane vs. Armour at Crane College.

Friday, January 15

10:30 A. M. W. S. E. meeting in Physics Lecture Room.

10:30 A. M. A. R. A. meeting in Electrical Lecture Room.

10:30 A. M. W. S. E. meeting in B. Mission.

Saturday, January 16

8:00 P. M. Augustana vs. Armour at Rock Island.

Cycle Pictures Taken Wednesday

Group pictures for the 1932 Cycle will be taken Wednesday, January 13, in the gymnasium and in the assembly hall, starting at 9:30 a. m. It was decided to do this indoors in order to avoid any delay that might be caused by unfavorable weather. Students having classes which interfere with the picture-taking schedule will be excused for the necessary time.

All groups except the Orchestra, the Glee Club, Stresses and Strains, and the Band will have their pictures taken in the gymnasium. A tentative schedule giving time and place has been organized by the Cycle staff and appears on another page of this issue.

Athletic teams are requested to appear in their uniforms. The orchestra and the Glee Club should wear the usual costume of white trousers and dark coats.

The editors of the Cycle have requested that all seniors who have not as yet had their pictures taken do so as soon as possible. Senior pictures are by Bloom studios, located on the twelfth floor of the State-Lake building.

In years previous all group pictures were taken on the same day outside, in Ogden Field, but weather conditions ruffled hair and turned up collars and so on; this showed up too well due to the detail of such pictures. This accounts for the decision to have the smaller group pictures taken indoors.

Pictures of classes and of professional societies will be taken as usual in March.

Chemicals Visit Lead Refineries in Indiana

To conclude the series of inspection trips for 1931, the senior chemicals visited the U. S. S. Lead Refining Company, the International Lead Refining Company, the Graselli Chemical Company of East Chicago, Indiana, during an all day trip on December 17.

The U. S. S. Lead Refining Company was visited during the morning. Guides explained the method of manufacturing electrolytically pure lead by the Betts Process, while the equipment was inspected.

In the crude lead obtained from the western part of the United States, there are such impurities as silver, gold, copper, bismuth, tellurium, etc. and these are removed in the electrolytic chambers.

Silver and gold are electrolytically removed from the rest of the impurities and sold. Receipts from their sale almost cover the operating expense of the plant.

The International Lead Refining Company was then inspected. They manufacture pure lead by the Betts process and white lead by an electrolytic process developed by Sperry.

The next and last stop of the trip was the Graselli Chemical Company. Just recently this plant has been taken over by the Du Pont Company and is now open to inspection by everybody.

Lunches Must Not Be Eaten in Classrooms

During the past few months many students have been using the various laboratories, drafting, locker, and class rooms of the Institute as places in which to eat box-lunches, and lunches brought from home. An unsanitary condition has resulted from paper and remnants of these lunches.

Because of this, a room has been provided in the basement of the Mission Building for all those who bring their lunches. The room is open for this purpose from 11:00 A. M. to 1:00 P. M.

The lunch room at the north end of Ogden Field is open as usual from 11:30 A. M. to 1:00 P. M., and may also be used by those who bring their lunches.

RIFLE TEAM BUSY

IN PRACTICE FOR COMING MATCHES

To Compete with Big Ten, Western Electric, and Others

BEAT AUSTIN GUN CLUB

Sharpshooters of the Armour Tech Rifle

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. VIII JANUARY 12, 1932 No. 13

"Dost thou love life? Then do not squander time,
that is the stuff life is made of."

Benjamin Franklin
Born Jan. 17, 1706.

Finis

A year has passed since the direction of the *Armour Tech News* was placed in our hands. It has been a pleasant year for us and we feel sure that it has been pleasant also to the other senior members of the staff who were appointed to their positions at the same time. There is a distinct feeling of satisfaction that comes with the completion of an appointed task—a feeling of having accomplished something—almost a feeling of having kept a promise.

This issue is the last one to be published under the direction of the present staff heads. By next week the seniors will have stepped out and their places will have been filled by juniors. That these new men can handle the work of the *News* we have no doubt. They are fully qualified and are well acquainted with all that the publication of the newspaper requires.

In this, our final editorial, we wish to thank each and every member of the staff for the work he has done during the past year. Each one has contributed his part to the production of the *Armour Tech News*. Each one has been of service—senior, junior, sophomore, and freshman. Their loyalty made the *News* possible.

It is now almost a full year, also, since the *News* first received the united financial support of the student body. That aid has made the paper a stable institution. The increased circulation thus obtained has increased the prestige of the paper as a distributor of news and its value as an advertising medium.

The year 1931, the fourth year in the life of the *Armour Tech News*, is marked by two innovations. The first is this: that an entire year has been completed without the use of a single headline. We feel that this is an improvement in that the commercial value of headlines, the real reason for their existence, is lacking at Armour. If an occasion should arise calling for the use of a headline, such a feature would be made even more effective by the long abstinence.

The second change introduced was the publication of the first six-page issue of the *Armour Tech News* ever printed. This was not intended as a regular feature, the plan being merely to publish such an issue from time to time as occasion demanded. Two were brought out during the fall semester.

In closing we wish the incoming staff heads and their co-workers all the good fortune possible. We feel certain that all the senior members join with us in the sincere hope that the new men and their successors may improve the *Armour Tech News* to such an extent that its present standards will seem poor by comparison.

"The Slipstick"

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

Courage

The night was dark and stormy,
It was perfect for the deed,
'Twas just the type of evenin'
For which he was in need.
He gazed up and down the street
The passersby were few,
He had the courage to do it now
That much he felt was true.
He stepped boldly into the storm
He felt no glaring eye,
At last he'd worked up nerve enough
To wear his Christmas tie.

D. S. D.

We just couldn't pass this one up, fellows, even at this late date. And we may now say that the parade of the Xmas ties (as if any one had enough cash left to buy loud ties for his friends) is over, and we may settle down again to our calc and organic, and prepare for our beloved friends, the finals.

And while we are on that subject let us air our opinion on the idea of final examinations. We note that many prominent educators have agreed that they are not a fair test of one's ability. Let us all put in a kick. Call, write, or telegraph your congressman, and vote "NO," (and then see if it does us any good.)

COLUMNIST WANTED!!!

About this time of the year the *News* columnist comes out with the call for a successor to his position, an aspirant to the position of humorist-in-chief, and scandalizer of the Institute activities. We are sorry we cannot keep the job for another year, but you know how it is.

Any person, male or male, between the ages 16 and 60, white, pink, or purple, unmarried or unmarried, who has an overstuffed of fun system may apply (get that—may apply).

A junior is preferred but let's hear from you whether you're a post grad or an entering freshman. I may be reached in my office during the hours of 12:00 A. M. to 12:00 P. M. and from 12:00 P. M. to 12:00 A. M.

"Help your wife," says a famous domestic expert; "when she mops up the floor, mop up the floor with her."

GOOD REASON

Staunch Captain "Now then, my hearties, fight like heroes till your powder is gone, and then run. On account of the rheumatism in my leg I'll have to start now." Kiddo.

Jim: "Do you know that in all history they never hung a man with a wooden leg?"

Jack: "And why not?"

Jim: "Because they always use a rope."

Rad.

Receive any cutlery, lemonade pitchers, coffee cups, table silver, etc., for Xmas? Look up your friends; they got them at the corner gas station with one buck's worth of gas or oil.

First soph: "We've got it at last!"

Second ditto: "Got what?"

First yokel: "Perpetual motion—I can't stop."

1935er.

1932: (Giving a lecture to frosh): "Very often in my freshman year I would sit up studying until I felt as if I couldn't keep my eyes open."

1935: "And yet you plugged and plugged away?"

1932: "No, then I went to bed."

* * *
Yep, we gottem!! What we wanted was a pair of spats. And we got a pair of real pearl-buttoned, alligator-leather strapped, sterling buckled, gray spats. And they came wrapped in moisture-proof cellophane, you know, guaranteed fresh. We at least appreciate the fact that we got a fresh pair. Wish we could show 'em to yuh, but we burned 'em up day after Xmas.

NATURALLY

"Have you seen the last word in books?"

"Nope, which one is it?"

"Finis, you nut."

D. S. D.

* * *
And with these lines we officially go into the new annum. A bit late to wish you all a "Happy New Year" but not too late to discuss our prospects for the new year.

We hope to have bigger, better, and more jokes this year (for the rest of our term) and we hope that you, our dear reading public, will respond as well as you have in the past to our begging for "hewmorous nooze."

Of course we do not make resolutions, for obvious reasons, but we have decided:

To tune out each and every philosophizing radio announcer,

To be in class on the 1st day of the baseball season, regardless,

To do more daily homework than we did during the Xmas recess,

To get A's in every subject next semester (oh yeahh!).

The Bongineer,

REVIEWS**MANSIONS OF PHILOSOPHY**

By Dr. Will Durant

Here at Armour Institute certain over-earnest students have made a theme song of the theory that we should have more liberal education along with our engineering training.

If they are thinking of studying more history, economics, social sciences, or ethics, perhaps the difficulty can be overcome by reading courses as suggested by the public libraries and by our own faculty members. However, if you are one who has been losing hair over worry because our heavy programs deprive you of most of your reading time let me recommend "Mansions of Philosophy" by Dr. Will Durant. This book is not medicine; read it to enjoy it.

Dr. Durant has been getting a critic's "Bronx Cheer" for his efforts, possibly, because he begins by promising too much. He admits that he is attempting to pass all knowledge in review and to draw from his inspection some consistent principles which represent the best human wisdom. This has been tried before. However right the professional reviewers might be in criticizing the Doctor's ambition, there are few men who could handle the project with as much appealing originality and clearness. His style is fast moving; he does not bore you with insignificant or doubtful theories.

Each chapter is a mansion of philosophy. Durant is the understanding guide. He leads us through his story, economics, politics, religion, love, marriage, socialism, and more besides pointing out, as an impersonal observer, the high spots.

In his chapter, "The Meaning of History," he gives four different ways of looking at the subject. In-

stead of an essay, it is presented as a dialogue between men historically famous for their intelligence and common sense: Aristotle, Voltaire, Nietzsche, Anatole France, Buckle, Marx, in addition to a supporting cast of lesser figures.

He treats religion in the same style, using the first names of men who have won their fame in the present day. For example, "Clarence" is Clarence Darrow, the agnostic. These men discuss religion pro and con by explaining the principles in which they have put their faith.

Dr. Durant portrays "The Modern Woman," giving us a multitude of reasons why she is different from her grandmother: "These pretty slaves began to talk about freedom . . . To smash windows . . . Now we cannot beat them anymore, they will not cook for us any more, they will not even stay at home with us in the evening. Instead of worrying about our sins they are busy with their own. They have acquired souls and votes; they smoke and drink and think, while the proud males who once monopolized these arts are at home tending the nursery." Sounds almost like poetry.

On love he seems old-fashioned. He believes in it; it will cure our ills and add to our personalities. He would advise the Armour man not to forsake love, but the Armour man had best be wise enough to use his own judgment.

In the chapter headed "On Life and Death," he traces a course of existence as performed by the average human being. It is by no means complete, but in only sixteen pages he has packed a lot of life.

Take the book home with you over some less busy week-end. Thumb through the index and find the chapters which appeal to you. Once you have started reading this work you will dare anyone to take it away.

By Harold Monger.

Tuesday, January 12, 1932
December 18, 1931
Armour Tech News:

Two things prompt this missive. First: You asked for those interested in other subjects than those now presented at the Institute. I would be glad to include a course in public speaking in my program, if it could be arranged.

Second: Why not have a bit more spirit at the athletic contests? If there are no good cheerleaders here at school, then, I am willing to get out and lead the cheers at the games. Could you help by publishing a list of Armour yell (if there is such a list), or by sponsoring a contest to originate a group of yell? This seems to me to be one method of reviving a dormant school spirit. How about it?

Geo. A. Nelson, '34.

Mr. Nelson also submits the following code which is hung in the bedroom of King George of England:

THE KING'S CODE

"Teach me to be obedient to the rules of the game."

"Teach me to distinguish between sentiment and sentimentality, admiring the one and despising the other."

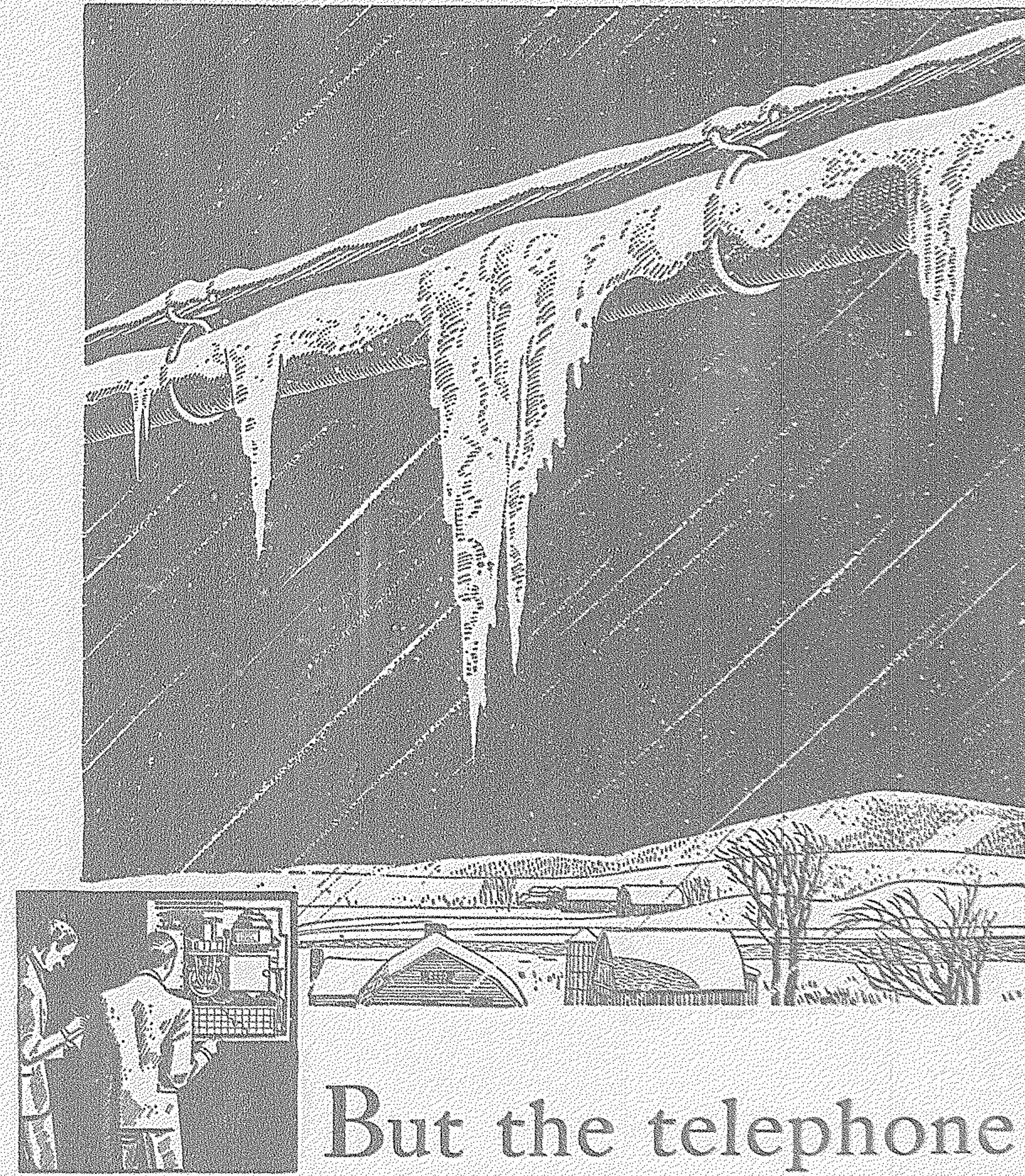
"Teach me neither to proffer nor to receive cheap praise."

"If I am called upon to suffer, let me be like a well-bred beast that goes away to suffer in silence."

"Teach me to win, if I may; if I may not, teach me to be a good loser."

"Teach me neither to cry for the moon nor to cry over spilt milk."

The Truss Club held a smoker during the Christmas holidays on Monday, December 28, 1931. It was well attended by the active chapter.



But the telephone conversation must not freeze

A sudden cold snap might seriously interfere with long distance telephone service were it not for the studies made by Bell System engineers.

They found that temperature variations within 24 hours may make a ten-thousandfold difference in the amount of electrical energy transmitted over a New York-Chicago cable circuit! On such long circuits initial energy

is normally maintained by repeaters or amplifiers, installed at regular intervals. So the engineers devised a regulator—operated by weather conditions—which automatically controls these repeaters, keeping current always at exactly the right strength for proper voice transmission.

This example is typical of the interesting problems that go to make up telephone work.

BELL SYSTEM

A NATION-WIDE SYSTEM OF INTER-CONNECTING TELEPHONES

FRATERNITY NOTES

THETA XI

Alpha Gamma Chapter of Theta Xi takes pleasure in announcing the pledging of:

M. A. Collick, E. E., '33

G. L. McKibben, M. E., '35

Brother Davidson, executive secretary, visited the chapter during the week before the holidays. After his visit, he made a very favorable report on the condition and standing of the chapter. Pledge Brother Adair is now living at the house.

There will be a Radio Dance at the chapter house on next Saturday night. This will probably be the last social affair before the mid-year ordeals.

SIGMA ALPHA MU

A highly successful get-together of both fraters and their parents was held at the Sigma Alpha Mu fraternity house the evening of Dec. 28, 1931. The party was attended by a large group.

PHI KAPPA SIGMA

At the meeting of Dec. 14, 1931, the following men were elected to their corresponding offices:

H. S. Hendricks—President.

C. K. Simons—Vice President.

M. W. Soldal—Secretary.

F. S. Beale—Treasurer.

On New Year's Eve a formal House Party was greatly enjoyed by the actives and alumni in the Chicago area.

TRIANGLE

The election of Alumni officers was held before the holidays. The following men were elected:

S. Streeter—President.

H. Christiansen—Vice-President.

W. Reinert—Treasurer.

H. Hoff—Secretary.

E. Benson—Member.

C. Ruettner—Member.

The annual Snow Ball was held after the closing of school. The affair was a great success despite the fact that its namesake was absent.

Palace Theatre Host To Junior Electricals

Tuesday, December 29, the Junior electrical class held their first social function, a theatre party at the R. K. O. Palace Theatre.

Boys will be boys and college students will cause riots, but an Armour man is always an Armour man. And, yea, verily, did they so conduct themselves on that memorable Tuesday after Christmas. Out for a really hot time they first passed out data sheets in front of the theatre and while waiting for a few lagging members held a class in laboratory technique on the curbstone. They all took turns at being teacher, each holding that right honorable office until stamina gave away as a result of the incessant fire of questions and taxicabs.

In the theatre they conducted themselves like gentlemen. They sat in the balcony, of course, but could find no sophomore to toss over the railing. A couple of the fellows who live out in the woods thought this was the "swellest barn they ever were in."

The feature picture was one of the good old melodramas with plenty of dark stormy nights and a last minute rescue which had everybody clutching the edge of their seats. Lew Ayres was the hero of this story and gave a very fine performance in his rather difficult role of a river boat captain's adopted son.

Horace Heidt's Californians provided most of the laughs that night, proving themselves very versatile and revealing a musicianship which soon won the admiration of those engineers who can also appreciate good music. All were agreed that the evening had been a successful starter for the new junior electrical social project.

MUSICAL CLUB PICTURES

Pictures of the musical clubs to be printed in the 1932 Cycle will be taken Wednesday, January 18, in the Assembly Hall.

All members must be present in white trousers, blue or black coat, and black bow tie. Roll call will be taken in the Glee Club.

"DIESEL ENGINES" SUBJECT OF TALK TO MECHANICALS

Mr. L. Wimbolt, a senior student, spoke at the last meeting of the A. S. M. E. His subject was "Diesel Engines."

In the last few years engineers have made great strides forward in the development of the Diesel engine. Because of its general construction and mainly because of the fuel burned in an oil engine, it is a slow speed engine.

In one type of oil engine, there is the compression stroke where the air is compressed to about 550 pounds per sq. in.; then the fuel valve is opened and the power stroke takes place. At the end of the power stroke, the piston uncovers some parts through which a blast of clean air is admitted, forcing out all the exhaust gases and filling the cylinder with clean air for the next compression stroke. There is no spark used in an engine of this kind, combustion taking place due to the high temperature produced by compression.

The fuel consumption of a Diesel engine compares favorably with that of a gas engine, but fuel oil is much cheaper than gasoline. During a test run of a Diesel engine mounted on an automobile chassis over a distance of 3000 miles, the average speed was better than 40 miles per hr. The cost of a Diesel is about one third of a cent per mile in comparison with one and a third cents per mile of a gas engine.

The universal use of Diesel engines in automobiles will probably not take place very soon because the price of fuel oil would go up, thus greatly affecting the owners of large stationary Diesel engines.

The use of a Diesel engine in a ship is very economical for there are no stand-by losses as there are with steam engines. The storage space for fuel oil is only 25% of the space used for coal bunkers, and 40% of the space used for oil burning ships. The Diesel engine takes skilled men for operation, and for that reason the change from coal burning to oil engines is slow.

Friday, January 15 there will be a special A. S. M. E. meeting at which time Mr. Ralph E. Turner, Managing Editor of "Power Plant Engineering," will speak on "Advancements in Generation of Power." All students interested are welcome.

A. I. E. E. Features Automatic Control

Friday, December 18, the last day before the Christmas holidays, a meeting of the A. I. E. E. was held at Science Hall in which were featured three reels of motion pictures donated by the General Electric Company.

The subjects covered were:

1. Automatic sub-stations (railroad service).
2. Automatic sub-stations (general service).
3. Vacuum tube synchronizing equipment.

A written explanation accompanied the films and did not necessitate a speaker. The subject matter of the three reels was brought out by a guide, just as if he were conducting an inspecting trip through the various stations and pointing out the important details.

Automatic control, as was vividly impressed upon the A. I. E. E. members, meant automatic control in the fullest sense, all operations being performed without human guidance. Plant attendants were necessary only for the upkeep of the equipment.

From stand-still the equipment is brought into full operation through the use of relay equipment which automatically starts or stops, cuts in or out of circuit the necessary equipment to supply the load at all times, variable as it may be. All equipment is protected by circuit breakers and over-load devices which prevent any of the apparatus from carrying excessive currents. An outstanding feature is that in case of complete stalling of the entire system, the automatic control will start all equipment functioning properly within two minutes time.

Animated diagrams were used by the motion picture guide to make simple the tracing out of the exceedingly complicated circuits.

Inquiring Reporter

Question—What did you think of the work of the Armour Players?

R. D. Armsbury, Ch. E., '35—I was quite surprised with the whole play. It was well acted and the plot was very exciting. Make the next play a humorous one.

W. Krause, E. E., '34—I thought that the play was very good. Make the next a bigger and better one.

W. A. Grosser, E. E., '32—The play was quite a success, and I think the work of the Dramatic Club should be exhibited more often. Those who took part certainly deserve much credit.

C. A. Cunningham, F. P. E., '34—By the manner in which the first play was presented, one can see that the club will be a success. Armour needs a Dramatic Club, and I sincerely hope the boys will keep up the good work.

A. R. Viel, Ch. E., '32—This excellently, well-performed sample of a much-needed activity was most entertaining.

George Adrian, F. P. E., '34—The play was a knockout. More and longer plays are needed at Armour Tech.

B. M. Kostenko, C. E., '34—I enjoyed the play very much. I went to see it expecting to have to make allowances for the first effort of the Dramatic Club but as soon as the play started it was easy to see that it was going to be a success. The characters were very well portrayed

and were convincing. The Dramatic Club should give us a chance to enjoy another play soon.

R. McFarland, Ch. E., '34—To me the play was a welcome addition to the usual Christmas Concert and a most welcome surprise. I hope that the next play will be of a humorous nature or else as exciting as the last one.

Allen H. Helmick, Ch. E., '33—I think the members of the club should be congratulated on their success. The play was well acted and showed the results of good directing.

E. D. Anderson, C. E., '33—I think that the acting of the members of the Dramatic Club was up to the standards of most colleges and that they deserve as much praise as can be given. I hope to see this club develop into a permanent organization.

Walter C. Breh, E. E., '32—Having been fortunate enough to view the first play, it is self-evident that with the type of material and splendid direction available the Dramatic Club will fill a much needed want in collegiate affairs.

V. Hedlund, E. E., '35—The play was very interesting and well-acted with the exception that the actors did not talk quite loudly enough.

H. Kreisman, M. E., '34—Considering it was their first performance together, the actors did very well.

D. Peterson, C. E., '35—The lighting effects were excellent and the play kept one in suspense until the end.

CYCLE PICTURE SCHEDULE

9:30	Senior Officers—Gymnasium.
9:36	Junior Officers—Gymnasium.
9:44	Junior Social Comm.—Gymnasium.
9:50	Sophomore Officers—Gymnasium.
9:56	Sophomore Social Comm.—Gymnasium.
10:05	Freshmen Officers—Gymnasium.
10:10	Freshmen Social Comm.—Gymnasium.
10:15	Varsity Basketball Team—Gymnasium.
10:35	Swimming Team—Gymnasium.
10:42	Boxing Team—Gymnasium.
10:50	Campus Club—Gymnasium.
10:56	Press Club—Gymnasium.
11:02	Truss Club—Gymnasium.
11:10	Armour Radio Asso.—Gymnasium.
11:15	Rifle Club—Gymnasium.
11:20	Tau Beta Pi—Gymnasium.
11:26	Sphinx—Gymnasium.
11:30	Eta Kappa Nu—Gymnasium.
11:36	Scrab—Gymnasium.
11:42	Phi Lambda Upsilon—Gymnasium.
11:48	Chi Epsilon—Gymnasium.
11:54	Salamander—Gymnasium.
11:56	Pi Tau Sigma—Gymnasium.
12:02	Alpha Chi Sigma—Gymnasium.
12:08	Pi Nu Epsilon—Gymnasium.
12:12	Honorary Fraternity Council—Gymnasium.
12:16	Interfraternity Council—Gymnasium.
1:15-1:40	Musical Clubs—Assembly Hall.

Eat at the
BOULEVARD CAFETERIA
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"There are
no better cigarettes"

HE BOBBED UP SMILING
Bob Montgomery has been an iron worker, deck hand, railroad mechanic and a board-at extra in Hollywood . . . He zoomed to the top in noise-reels because the girls were cut-azy over his grin . . . And they'll go completely zaney when they see him in his latest M-G-M, "PRIVATE LIVES" . . . He's stuck to LUCKIES these last 7 years . . . Not a buffalo nickel was paid for his statement . . . He gave it just for a pleasant "Thank You."

"I have always used LUCKIES—as far as I am concerned there are no better cigarettes—congratulations also on your improved Cellophane wrapper with that little tab that opens your package so easily."

"It's toasted"
Your Throat Protection—against irritation—against cough
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TUNE IN ON LUCKY STRIKE—60 modern minutes with the world's finest dance orchestras and Walter Winchell, whose gossip of today becomes the news of tomorrow, every Tuesday, Thursday and Saturday evening over N. & C. networks.

ARMOUR BASKETBALL TEAM OVERWHELMED CRANE COLLEGE BY THE SCORE OF 38 TO 23

Tech Basketeers to Meet Y. M. C. A. College
Tonight at 8th Regiment
Armory

LOSE OVERTIME GAME TO DE KALB

In the summary of the basketball games played the week before the Christmas holidays and last week, the Armour squad fared rather badly. Before the Christmas holidays they were defeated by North Central College, but came back two days later to overwhelm the Crane College team. Upon their return to school, they lost to De Kalb Normal, but not until they fought through two overtimes were they overcome.

In a very hard fought contest played at North Central College in Naperville, Armour lost their first basketball game of the season by a score of 27 to 22. This game was played just before the holidays and that may have influenced the score some.

At the half way point Armour was only one point behind, trailing North Central 18 to 17. But during the second half North Central gradually increased their lead and scored nine points while Armour could only get five.

For the Varsity, Christoph again collected the most points. North Central's attack was led by Manning and Kerth.

Victory number four was chalked up on Thursday, Dec. 17, when the team defeated Crane College to the tune of 38 to 23.

Every member of the Armour first team contributed at least four points toward the grand total. Captain Rossing tossed in four baskets and one free throw; Ilg sank four baskets; and Setterberg and Christoph added six points each.

Captain Maloskie and Kraus starred for Crane, each scoring six points.

At the end of the first ten minutes Armour took the lead 12 to 5. Christoph then made three points, Rossing sank a free throw, and Setterberg connected with a basket. Crane, in the meantime, had only made two free throws, and with about five minutes to go in the first half Armour led 18 to 7. Crane made it 11-18 on baskets by Capt. Maloskie and Hansen. Rossing then finished the half by sinking three baskets in rapid succession to bring the total up to 24 to 11.

The Tech aggregation continued their sharp shooting in the second half with Setterberg and Beemsterboer, who replaced Ilg at center, adding the final points for Armour.

BOX SCORE Armour 38

	B	FT	P
Robin, rf.	1	2	1
Carlson, rf.	0	0	3
Lukas, rf.	0	0	0
Christoph, lf.	2	2	2
MacLennan, lf.	0	0	0
Ilg, c.	4	0	2
Beemsterboer, c.	2	1	1
Rossing, rg.	4	1	2
Rummel, rg.	0	0	0
Setterberg, lg.	3	0	2
Omiecinski, lg.	0	0	0
Total	16	6	13
<hr/>			
Crane 23			
Alster, rf.	0	1	1
Kraus, rf.	3	0	0
Hansen, lf.	2	0	1
Topp, c.	0	0	1
Placek, c.	0	0	2
Maloskie, rg.	2	2	3
Zissen, rg.	1	1	0
Krupp, lg.	0	0	1
Barnett, lg.	0	3	1
Total	8	7	10

The second defeat of the season was administered by De Kalb Normal, but Armour refused to give the victory until two overtime periods had been played.

As a basketball game this contest turned out to be a "flop," but as a football game or soccer game, it was almost perfect; and since Armour doesn't have a football or soccer team the superior experience of De Kalb in these sports gave them the decision in the end.

Cage Queries

By Prof. J. J. Schommer
Editor's Note: Professor John J. Schommer, star player, conference umpire, and leading basketball authority, will answer through this column any questions on basketball which are puzzling our readers. Questions may be submitted to the Sports Editor, H. P. Richter, or they may be placed in the Armour Tech News box, which is located in the main building adjacent to the elevator on the first floor.

Question 6. As the ball is bouncing toward the outside, it is caught in midair before it touches the outside area. Is it considered offside or is it still in play?

Answer. To be outside, the ball must touch the line or any object out of bounds, including a player.

Question 7. How many times is the center allowed to tap the ball on the jump-off?

Answer. Each center is allowed to tap the ball twice.

Question 8. A player dribbles down the floor and collides with a guarding opponent. On whom is the foul called?

Answer. The burden of avoiding contact is on the dribbler. He must try to evade his guarding opponent. If he does not the foul is called on him. If he does and there is contact then either the guard has fouled or the dribbler has fouled or perhaps both have fouled.

Question 9. What is the penalty for coaching from the sidelines and how is it accounted for?

Answer. It is a technical foul and any player on the opposing team can take the free throw.

Question 10. How many steps is a player allowed to take on a step in shot?

Answer. He can take one step.

Question 11. What happens to the ball when a player kicks it?

Answer. If he kicks it accidentally or it strikes him, the ball is still in play, but if he kicks it purposely, the ball goes to the opposing side out of bounds.

Question 12. How long must a player wait before he can step into the free throw circle after a free throw?

Answer. No player can step in until the ball has entered the basket or until it is certain that the basket will not be made.

Question 13. How many officials are needed in a game?

Answer. A referee and an umpire are the officials.

Question 14. Which team gets the choice of baskets at the beginning of the game?

Answer. The visiting team has the choice, and baskets are reversed at the half.

Question 15. If the referee and umpire disagree on a play, whose word is final?

Answer. Usually the referee has the final word, but a called foul always takes the precedent. That is, if one official calls for a jump-off and the other calls a foul, the foul is taken as the ruling, no matter which official called it.

Armour Hockey Club Awaits First Freeze

The first game of the Armour hockey team will be played with the Shamrock Juniors in the near future. This game and all other games will be played whenever there is ice on which to skate. The Shamrock Juniors are a team of South Side players in first rate condition.

The hockey team has become a member of the Central Amateur Athletic Union. Through this association a schedule of twenty games for this winter has been secured by the Tech team. The league is composed of a number of prairie teams of fairly experienced players.

Since it has been found impractical to hold practice off the ice, it will be necessary for the members of the squad, numbering about twenty, to practice when the skating season has arrived.

Members of the team who are outstanding players in the league will be given tryouts for the U. S. Olympic hockey team, something for ambitious students to try for.

TECH BOXERS TO OPEN SEASON TO- MORROW EVENING

124th Field Artillery to Furnish Opposition; Twelve bouts

MEET STARTS AT 8:30

Tomorrow evening the Armour Tech boxing team will meet the 124th Field Artillery, their first opponent of the season. The bouts will be held at the new 124th Field Artillery Armory, 52nd and Cottage Grove Avenue at 8:30.

Admission will be by ticket only which can be secured from Manager Ustryiski. A capacity crowd is expected, including prominent officials of the army throughout Chicago. Tech supporters will have a special section reserved for them. Col. Waldon is the sponsor of the meet.

The program will consist of twelve boxing bouts and two wrestling matches. The bouts will be three rounds to decision. A prominent professional referee will be the third man in the ring.

Medals will be awarded the winners and a trophy is to be presented to the winning squad. This is the first time the squad has had an opportunity to win a trophy and they will be out there to win it.

Stiff opposition will be furnished by the Artillery squad as they have members who are leading amateurs of the city. The squad is coached by Paddy Kane, manager of a prominent professional boxer.

Wrestlers to Exhibit Prowess

There will also be two exhibition wrestling matches. Two Armour wrestlers will meet in one bout and two artillery men in the other exhibition. The Tech grapplers will be Talaber and Tiensuu, 150 pounds. Rosenfeld and Levine will meet in the other match, at 120 pounds.

The boxing bouts have been arranged as follows: in the 170 pound class Hoffberg will meet Domanasky; 160 lbs., Campione and Rush will box for Armour, their opponents not having as yet been selected. Heckmiller will meet Pecka, 155 lbs.; McDonald will be matched at 152 lbs.; Marcus vs. Goodman, at 142 lbs.; Schavilje vs. Hecks, 188 lbs.; Bacci vs. Lindh, 131 lbs.; Core vs. Lee, 127 lbs.; Capt. Sandstrom vs. Weisner, 124 lbs.; and Behmer vs. Wisz, 118 lbs.

Swimmers to Meet Crane on Thursday

This Thursday afternoon at 3:30 o'clock Armour continues its rivalry with Crane College when the swimmers engage the west side college in a meet to be held in the latter's pool.

Last year Crane had a very strong team, defeating the Armour team by a score of 40-33. In this meet Armour's 160 yard relay team, composed of Giovan, Carlstrom, Byanskas, and Knox, chopped two full seconds off the old Armour record to win this event in 1:21.4.

The strength of the Crane outfit this year isn't known; but the Armour squad has several veterans back from last year in Giovan, Cavanagh, and Captain Weston, with some good freshman material also.

Besides the Crane meet Manager

Dirkers has scheduled a contest with Illinois Wesleyan at Bloomington for February 2; and there is a possibility of another meet being arranged sometime before this date. The full schedule, which is made up of six meets, will be run in the next issue of the News.

AND THE NEXT DAY IT SNOWED

That class was quite orderly, which ended in joy, for the yarns were quite good by the famous Tolstoy.

The Prof. ended his talk;

He raised his hand then, and made his usual crack, "You're at liberty me."

When out of the heavens, confetti there flowed.

His only response was,

"The next day it snowed."

TECH SHORTS

Here Again

Winter has finally arrived in Chicago and has chased our Florida weather away. (We would say California but they have already had four inches of snow throughout the state.) Hockey, ice skating, and skiing are now in full swing.

Three of Tech's athletic teams will see action this week. Armour will entertain "Y" College in basketball tomorrow, and will journey to Augustana on Saturday. The 1932 swimming and boxing teams will also start their schedule. Crane and the 124th Field Artillery teams will be the opponents.

Moral Victory

Kraft's basketeers lost their first game in 1932 to De Kalb last week, 30-27. This was only after two overtime periods were played. Settlerberg sank a basket twenty seconds before the final whistle to tie the score at 24-24. The schedule now stands with 4 victories to 2 losses for the Tech team.

The freshmen are well represented

on Armour's swimming team with Cassil, diving; Ahern, dashes; and Bernstein, backstroke, giving competition to the veterans back from last year.

Athletic Prominence

Tech's athletic teams are finally gaining renown among the colleges of the Middle West. Tomorrow the boxing squad will hold twelve bouts at the 124th Field Artillery Armory before two thousand spectators.

The Universities of Wisconsin and Iowa both want home games with Armour's baseball nine. Wisconsin will probably open Tech's 1932 season on April 8th at Ogden Field.

The Armour Relays to be held on March 26 at the new U. C. Fieldhouse will have all of the Big Ten Colleges, Notre Dame, and about fifteen smaller colleges among its competitors.

The captains for this year's teams are: Harvey Rossing, basketball;

Charles Jens, track; Andy Weston, swimming; and Warren Sandstrom, boxing.

Baseball, golf, and tennis teams have not elected them as yet.

TRACK SEASON TO OPEN FEB. 13 WITH INTERCLASS MEET

Tech's 1932 track season will open on Saturday, February 13th, when the annual interclass championship will be decided at Bartlett Gymnasium.

The meet this year will be a close struggle between all classes, as the class of 1931, graduates of last year, have won the meet for the past three years.

Individual champions who are back to defend their titles are George Nelson, sophomore, 880-yard run, low hurdles and high jump; Oberbeck, junior, high hurdles; and Chuck Jens, senior, shot put. These men will all have plenty of competition from the new runners and weight men participating.

The seniors will be well represented by Captain Jens, shot put: Harry Settlerberg, high jump; Venema, relay and dashes; Holland, dashes; Cordes, field events, and Hirsch, 440-yard dash.

Helmick, Barnett, Oberbeck, Saderman, and Sorenson will run for the juniors, while George Nelson will ably defend the sophomore class in the meet.

Last year the sophomores and the juniors tied for second place with fifteen points each. George Nelson scored nine points for the class of '34 by winning first place in the high jump, half mile, and low hurdles.

Points are scored as follows: first place, three points; second place, two points; and third place, one point. Relay points are five, three and one point for first, second and third places.

Ribbons will probably be awarded to winners of first, second and third places. All men are urged to start practicing at once, as the rest of the meets will follow soon after this opening tournament. Each class should reserve this date to come out and root for their classmates. The indoor track schedule will be published in next week's issue of the News.

INTERCLASS TRACK RECORDS

50-Yard Dash

A. Jens, '31, 0:05.5 in 1931

50-Yard Low Hurdles

G. Nelson, '34, 0:06.4 in 1931

50-Yard High Hurdles

A. Oberbeck, '33, 0:07.5 in 1931

220-Yard Dash

H. L. Fox, '31, 0:24.9 in 1930

440-Yard Dash

St