

## BASKETEERS WIN SCRIMMAGE AND ALUMNI GAMES

### Defeat University of Chicago in Practice Game, 27 to 19

#### ALUMNI LOSES 43-25

Armour Tech's basketball team won their first game of the season last Tuesday, defeating the Alumni by a score of 43 to 25, in the Eighth Regiment Armory.

The team that Coach Krafft started the game with consisted of Robin and Christoph at the forward positions, Ilg, at center, and Captain Rossing and Setterberg at the guard positions.

The Alumni made the first point of the game when Guettlman made a free throw after he had been fouled by Setterberg. Setterberg then connected with a nice long shot and was followed by Rossing and Christoph who sank two short ones. When the half ended, the score was 28 to 10 in favor of Armour.

#### Varsity Leads Throughout Game

At the start of the second half there were three changes made in Armour's lineup. These were Carlson for Christoph at left forward, Beemsterboer for Ilg at center, and Omiecinski in place of Setterberg at left guard. During the second half, the Varsity used quite a few substitutes and were held even by the Alumni, each team making fifteen points. The Alumni's spurt was largely due to the work of George Jennings, more famous as a tennis player, and Stan Ott.

(Continued on page 2)

## Five Men Pledge to Chemical Fraternity

Alpha Chi Sigma, professional chemical fraternity, announces the pledging of four sophomore chemicals and one junior: K. C. Eberley, W. E. Gunderson, R. W. Marty, V. J. Galvani, '33, and D. J. Mullane. The Alpha Chi chapter of Armour, the newest addition to this national organization, will reach its first anniversary on December 13. The officers are:

- O. G. Linnell, President.
- S. Johannesson, Vice President.
- J. O. Cavanaugh, Corresponding secretary.

- A. M. Ream, Recording secretary.
- P. Bestler, Treasurer.
- G. J. Stockmann, Master of Ceremonies.

Tomorrow, December 13, the organization will hold a joint meeting with the Chicago professional chapter and the Chicago Chemical Society. Colonel Goddard, professor of police science and director of the laboratory at Northwestern University, will be the speaker. His topic will be the application of science to crime detection. He is known for his work along this line with the Chicago Police Department.

## Sademan and Bodinson Lose Their Dignity

The new style of shorts for men has come to Armour. As a result of a rather vigorous "depantsing" ceremony, Elmer Sademan and Harold Bodinson lost the garments that shield their shapely limbs from the gaze of the multitude.

These two men decided to go to Economics against the better judgment of their classmates. Again justice tracked its victims to their lair when the remainder of the junior five protects seized the miscreants and stripped them of their dignity.

The two unfortunates tried to secure numbers for their backs so as to be able to pass for track men while they ran to the Bowl Mich for other pants.

## Inspection Trip Held On Monday

Some of the leading industries of Waukegan, Illinois, were inspected by the senior, junior, and sophomore civils Monday, November 30. The program for the day was arranged by Professor Vagtborg and consisted of visits to the power plant of the Public Service Company of Northern Illinois, the North Shore Coke and Chemical Company, and the pumping and filtration plant of that city.

At the power plant many of the latest improvements in plant layout were pointed out. The fuel, which formerly was fed to the boilers in bulk form, is now ground into a fine powder approximating the consistency of cement, preheated, and forced into the boilers by air. This is done to increase the efficiency. This plant at Waukegan boasts the largest generating unit in existence, a 115 K. V. H. Allis Chalmers plant.

With the approach of the noon hour the party of fifty students and Professors Vagtborg, Ensz, Grafton and Stevens assembled in a private room of the Hotel Korcher for the luncheon. Here City Engineer Bleck addressed the men on what the engineering profession expects of a college graduate.

The manufacture of coke and by-products was then witnessed by the party. As explained by the guide the North Shore Coke and Chemical Company is interested chiefly in the manufacture of coke, the derivation of chemical by-products being of secondary importance.

Six million gallons of water are pumped and filtered daily at the Waukegan pumping station, which was the last place visited. This plant incorporates the latest designs and is considered to be the very last word in water supply station design. On both sides of the center line of the building the plant is duplicated to the

(Continued on page 3)

## New Cycle Pictures For Armour Faculty

All members of the faculty and staff must have new pictures taken for the Cycle due to a change of photographers.

Arrangements have been made to have a photographer here at Armour Institute on Tuesday, December 8. The faculty members are requested to report for sittings in the new Electrical Engineering Laboratory, second floor, Main Building on the above mentioned date. The sittings are to be run on a six-minute schedule.

Any members who do not have their pictures taken at Armour will have them taken at the downtown studios.

## Honorary Fraternities Hold Banquet Dec. 16

The inter-honorary banquet will be held at the Knickerbocker Hotel in the French Room on Wednesday, December 16. It will be attended by faculty members, alumni, active members, and pledges of the honorary fraternities, and several distinguished guests.

As yet, Dr. Scherger is the only speaker selected, but the banquet committee, J. O. Cavanaugh and R. H. Blom, guarantee to have other noted speakers.

Pledges of the honoraries and possibly some new members will be announced. The price will be \$1.75 per plate.

## ARMOUR MAN PASSES PILOT TEST

Armour Tech' reputation for passing government tests ran true to form last Wednesday, December 3. As a result of passing the Department of Commerce flight tests, Leo C. Galbraith, E.E.'35 of Omaha, Nebraska is now a licensed airplane pilot.

## REPORT ADDRESS CHANGES

Changes of address should be reported at once to the office and the correction made. This is important as all grades go to these addresses!

## ENTERTAINMENT AT ANNUAL CONCERT IS BEING PLANNED

Armour's musical organizations and the newly formed Dramatic Club will provide the student body with two hours of entertainment at the Christmas concert to be held Thursday morning, December 17, from 10:30 to 12:20.

The program is at present a tentative one which has been outlined by the officers of the A. T. M. C. It is planned to have a group of numbers and a novelty or solo from each organization. It is hoped that a definite schedule may be carried out instead of the arrangements common in former years. A great deal of time and thought has been spent in an effort to make the show appear as professional as possible.

Arrangements have been made for the wearing of the conventional white flannel trousers and dark coat by members of the musical clubs.

The orchestra will probably play three numbers. A violin solo by one of the members will be a feature of the program.

Stresses and Strains plans to present a group of four numbers with a violin duet on "Goofus". Three songs, among them "A Little Close Harmony" will be the contribution of the Armour Tech Glee Club. A piano solo will probably be played by the Glee Club accompanist.

The contribution of the Dramatic Club will be the play "A Night at the Inn" by Dunsany.

Three pieces played by the band or by the orchestra will follow the play, and the concert will come to a close with the singing of the Armour Fight Song.

## Senior Photographs to Be Done by Bloom

Seniors may have their pictures taken at any time they wish by calling the photographer, Dave Bloom, in the State-Lake Building for appointments. Those wishing to have pictures before Christmas should make appointments as soon as possible, and in any case, sitting must be finished before January first.

A deposit of \$2.50 must be paid at the time of sitting. Several types of pictures which are very appropriate for Christmas gifts are available this year at a very reasonable price. Samples are now being displayed in the case in the lobby of the Main Building. One print of the class composite is free with each set of pictures.

The photography committee is composed of: O. Eskonen, Chairman; O. G. Linnell; R. A. Peterson; M. J. Schinke; J. E. Walker

## Members of Musical Club Plan Concert

For the benefit of those members of the Glee Club who have not as yet memorized the words of the songs to be presented at the Christmas Concert, copies of all the songs are now on file in the library.

To insure that the program of the Glee Club is presented with the least possible confusion, the following men have been appointed to help at the concert: S. Otto, D. McFarlane, D. Landwer, C. Clarkson.

## Seniors Convene, Discuss Business

The first regular senior class meeting of the semester was held last Friday morning at 10:30 A. M. in the assembly hall.

This was the first meeting at which the new officials presided. The officers elected at the beginning of the semester are: President, Wilbur H. Rudolf; vice-president, Alton J. Jungels; secretary, John O. Cavanaugh; treasurer, Alexander Bogot.

The meeting was called to order by Rudolf. He announced that orders for senior jewelry would be taken at school until the Christmas holidays, but that after that date orders would have to be placed with the jeweler himself. No extra cost will result.

Activity blanks were distributed, and the meeting was turned over to Glenn Schodde, who explained the manner in which these were to be filled out. The blank must be handed in no later than Wednesday, Dec. 16. Additional blanks may be obtained at the book store. After some discussion about the class photographs, the meeting was adjourned.

## Movie Pictures Shown At A. I. E. E. Meeting

Two reels of motion pictures were shown at the meeting of the A. I. E. E. held last Friday in Science Hall. The meeting started at 11:00 o'clock to avoid conflict with the meeting of the senior class.

The films, donated by the General Electric Company, showed the launching and maiden trip between New York and San Francisco of the new electric ship Virginia.

This 34,200 ton vessel burns oil, which supplies steam for the generators. In addition to those generators furnishing power for the huge motors, there are four turbo-generators to supply power for lights, ventilation, cooking, heating, and other purposes.

The ship has a cruising speed of eighteen knots and is furnished with every modern convenience for the comfort and amusement of its passengers.

The meeting was closed by the president with an announcement of the first A. I. E. E. smoker of the year to be held at the Phi Kappa Sigma fraternity house, 3236 S. Michigan Avenue, tomorrow night, December 9 at eight o'clock.

## CALENDAR

**Tuesday, December 8**  
5:00 P. M. Fraternity basketball in Armour Gym, Phi Pi Phi vs. Sigma Kappa Delta; Theta Xi vs. Phi Kappa Sigma.  
5:00 P. M. Orchestra rehearsal.

**Wednesday, December 9**  
5:00 P. M. Fraternity basketball, Beta Psi vs. winner of Theta Xi-Phi Kappa Sigma game; Tri-angle vs. winner of Phi Pi Phi-Sigma Kappa Delta game.  
5:00 P. M. Band rehearsal.  
8:00 P. M. A. I. E. E. smoker at Phi Kappa Sigma House.

**Thursday, December 10**  
4:30 P. M. Basketball, Armour vs. American College of Physical Education at Eighth Regiment Armory.  
4:30 P. M. Dress rehearsal for Dramatic Club play.  
5:00 P. M. Last rehearsal of Glee Club before Christmas concert.

**Friday, December 11**  
5:00 P. M. Finals of interfraternity tournament in Armour gym.  
9:00 P. M. Senior dance at Medinah Athletic Club.

## WADDY WADSWORTH TO PLAY FOR SENIOR DANCE ON FRIDAY AT MEDINAH ATHLETIC CLUB

Present Ticket Sales Indicate That First Social Event of School Year Will Be Success

### BIDS BEING SOLD BY COMMITTEE MEMBERS

## Dramatic Club Will Rehearse Thursday

The first dress rehearsal of the dramatic club is to be held next Thursday at 4:30 in the assembly hall. The cast, which has been definitely chosen, has been practicing several nights a week for the last three weeks for the play "A Night in an Inn," which is to be presented at the Christmas concert.

At this rehearsal, the actors will appear in the costumes which they will wear at the concert, and it is planned to experiment on the lighting effects and the stage scenery at this time so that they may be permanently fixed.

Professor Hendricks and several other faculty members and students will constitute the audience. They will make suggestions for improving the play so that at the time of its presentation to the student body, it will have been so perfected that it may be classed in the same category with the finest of student dramatic endeavors.

## Senior Class Rings And Keys Here Soon

Orders for Senior class jewelry which were taken previous to last Wednesday have been turned over to the jewelers. Barring all unforeseen contingencies, about sixty Seniors will have their jewelry before the Christmas vacation.

Those Seniors who have not as yet placed their orders may place them by leaving a deposit with some member of the jewelry committee before the holidays. This set of orders will be delivered to Spies Brothers, the jewelers, within the next two weeks.

Following the receipt of the second group of rings and keys, the jewelry committee will automatically cease to function. Those who wish to order after the holidays will be forced to see the jewelry firm directly.

The two rings and the key which are on display in the case on the first floor, Main building, have occasioned much favorable comment in the past week. The committee is composed of:

- E. A. Scanlan Jr., Chairman.
- E. W. Carlton
- W. H. Hornberger
- W. A. Holland
- G. W. Schodde

## Professor Hendricks Writes New Poems

"Double Dealer," the third book of poems by Professor Walter Hendricks of the English department here at Armour, has been issued recently by Robert Packard Company. The book is attractively made up in gold, black, and purple and is of convenient size, having but fifty-six pages. It will be placed on sale at the student supply store in the immediate future.

In his preface, Professor Hendricks explains the meaning of the title, "Double Dealer." In order to understand the poems fully, the reader must appreciate the fact that the author deals in metaphors to a considerable extent. It is this second meaning that gives the book its title.

Last Wednesday evening Professor Hendricks read his work before the University of Chicago Poetry Society and last Sunday he read it before the Book Club of the Society of Friends. It was enthusiastically received at both meetings.

If good music, an ideal place, and a congenial crowd are responsible for the success of a social function, then the senior informal may already be regarded as a wonderful party. The music is furnished by Waddy Wadsworth, who has played at Armour dances in the past. He will be well remembered for his slow, dreamy waltzes as well as the snappy syncopation that is so popular with college groups. He and his RKO orchestra, composed of ten pieces, specialize in college and private dances.

The place has been chosen because of several outstanding advantages. First it has a large floor and convenient lounges wherein those so disposed may relax tete-a-tete between numbers. It is within reach of both north and south sides. It is a well known building and—how enough! You have probably already guessed that the senior informal is to be held at the Medinah Athletic Club, 505 N. Michigan, just a block north of the Tribune Tower.

The "crowd" is composed of your friends and classmates, revealed under different circumstances than those of the drafting room or the laboratory. Meet them in a social way.

And the young ladies to be present will undoubtedly be as beautiful as those to be found at any gathering in the city. Remember this is strictly a "best girl party". Good—they've got to be good!

This is the first Armour dance of the season and gives every promise of being a never-to-be-forgotten event.

J. J. Casey in a recent interview stated that tickets are selling rapidly, since many alumni as well as undergraduates are going to attend. It is needless to mention that bids are selling at the usual price—\$2.50 a couple. Some member of your class is selling tickets or they may be obtained from any of the members of the senior social committee, composed of the following men:

- J. J. Casey, chairman
- M. R. Beal
- W. E. Baumann
- W. N. Trauten Jr.
- H. W. Yount

This is the last informal of the senior class and the seniors will attend with many pleasant memories of past occasions. But the dance can never be a complete success without the support and cooperation of the other classes.

Buy your tickets now—the dance is this Friday, December 11.

## New Members Given Awards by Honor "A"

Last Tuesday, December 1st, the Honor "A" Banquet was held at the Phi Kappa Sigma fraternity house, after the Varsity-Alumni game.

At the speakers table were Coach Krafft, Coach Weisman, Mr. Otto Kuehn, President Rossing, and Secretary-Treasurer R. Carlstrom. Rossing awarded charms to the following men:

- V. Galvani, '33
- A. Helmick, '33
- H. Hendricks, '32
- C. Jens, '32
- R. Meagher, '32
- A. Oberbeck, '33
- H. Setterberg, '32
- C. Sommer, '33
- R. Young, '32
- F. Ollison, '33

After the new members had been photographed, the group went to the Playhouse Theatre, where they saw "The Blue Ghost".



# Armour Tech News

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Vol. VIII DECEMBER 8, 1931 No. 11

"Alas the fearful unbelief is unbelief in yourself."  
Thomas Carlyle.  
Born December 4, 1795.

### Elective Courses

Several times in the past few weeks we have been approached in the subject of starting the teaching of new courses at Armour or reviving interest in old ones. The latest request concerns a course in public speaking.

There is a considerable number of courses at Armour in the same general classification with that in public speaking. By that we mean courses that are offered to the students wherever sufficient interest is shown in the particular subject to warrant the formation of a class.

However, there seems to be a misconception among an appreciable percentage of the student body as to the difficulty attendant upon the formation of such a class. Although we have no means of accurately judging the extent of this feeling, we wish to point out the fallacy of such an idea immediately in order to place a check upon its growth.

The officers of administration are not opposed to the teaching of courses in the previously mentioned category. On the contrary, wherever it is possible to offer such a subject, they are heartily in favor of it, provided that it is substituted for an existing course and not added to the already lengthy program of the students. "Influence," that vague and overused term, does not describe what is needed to obtain the formation of special classes of this nature. All that is necessary is sufficient student interest, coupled with the time and ability among the members of the faculty satisfactorily to teach the subject requested.

If the above conditions exist, the faculty will offer no opposition to the installation of the desired course as a temporary feature of the school curriculum. The chief difficulty in the path of such action is the determination of the existence of the first of these conditions. It is undoubtedly possible for a considerable number of men in the school to have an interest in a certain subject and yet for that interest to create no results because of lack of unification.

In view of this fact, we wish to suggest that anyone who has sufficient interest in some academic subject not taught at Armour to attend a class devoted to that subject write a note to the *Armour Tech News* telling the writer's name and what course he desires. Such notes will not be published, the only purpose of this suggestion being to offer to the student body the unifying power held by such an organ as the *Armour Tech News*. Now is the time to plan extra courses for next semester. The subject that you think interests you alone may have fifty adherents in the student body. Why not put a note in the contribution box of the *News* and see what happens?

## "The Slipstick"

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

### Not a New Experiment



Title: The Senior Informal.  
Object: to trip the light fantastic.  
Apparatus: You and the girl friend.  
Place: Medinah Athletic Club.  
When: Friday evening  
Results: A most enjoyable time guaranteed.



Well, how do you like them. We think pretty much of our new Senior Jackets.

We've just found that those fellas who go around in old clothes all day long and give one an impression of so many hobos are only the senior chemicals.

The senior mechanicals are hard at work on their power plants. When Jim forgets whether it was a gate valve or a check valve on that ten inch header at the Palmer House he hops the elevated and goes down to find out—not if it's the Jim we know.

Then senior civils out to Waukegan—we needed at least one day of rest and peace.

Last week, Jim Clear, ace of the Trianon, was showing some of the boys how he always makes such a hit.

Wonder how it feels to walk down Mich. Av. without trousers? Two men whom we know have recently experienced the sensation.

Those senior electricals sure know how to get quizzes and how to get out of them. Last Wednesday there were no erasers in the lecture room; they recited. Last Thursday there were fifty-five erasers; they did not recite.

—WADDY WADSWORTH AND BAND—  
—FRIDAY—  
—DEC. 11, 1931—  
—SENIOR INFORMAL—  
—MEDINAH ATHLETIC CLUB—  
—GRAND BALLROOM—  
—9:30 P. M. UNTIL (?)—  
—GET YOUR BIDS NOW—

### CONFIDENTIAL REMARK NO. 2

Even condensers get incapacitated. . . . If you want quick returns, write for the magazines. . . . You can't get concentrated H<sub>2</sub>O by boiling the water out of it. . . . There's a world of difference between the North Pole and the South Pole. . . . Killing time is not murder; it's worse, it is suicide. . . . There is nothing wrong with propaganda if there is nothing wrong with it.

We read in a well known monthly mag that painless education begins by eliminating pain and ends in eliminating education.

### Ain't It the Truth

Moore: "When does a woman really begin to get old?"  
Smythe: "When she moves her mirror into a darker corner of her room."

Supervisor: "Hello! Hello! What number do you want?"

Rastus: "Ah doesn't want no numbah."  
Sup.: "Then please do not play with the telephone."  
Ras.: "Ah ain't playing wif de telephone. De receivah fell in de sugah bowl an' Ah is lickin' off de sugah."

We once heard of an actress who never endorsed any soap, shampoo, powder, bath salts, tooth paste, vanity cases, candy, perfume, or hair nets.  
She was a trained seal.

### Just Like Him

—Your son at college ordered these photographs from me.

—Ah, yes. They certainly do look very much like him. Did he pay for them?  
—No sir. He has not.  
—Hummm-mm. Still more like him.

### BY PROXY?

"Say, why did you tip your hat to that lady; you don't know her."  
"No, but my brother does."  
"Well then why did you tip your hat?"  
"Because this is my brother's hat."



Last call, men! Get your tickets now! If you don't go you'll surely miss a good time. See you there!

The Bangineer.

### Senior Electricals Evade Written Quiz

This is the story of how an ordinary eraser or rather an avalanche of ordinary erasers averted a mental battle, commonly known as an examination.

It seems that Professor Snow, intent on expounding certain theories of electrical nature to his seniors suddenly found that his demand for an eraser greatly exceeded the supply which at the instant was nil.

It so happens that the class was promised a written quiz but because of the absence of erasers Professor Snow nullified this and changed it to an oral quiz.

In order to avert a recurrence of this tragedy, the powers that be immediately set the wheels of industry in motion and Professor Snow found a pyramid on his desk the following day.

This consisted of fifty-five erasers and several boxes of chalk. Strong is the power of suggestion.

### Chemicals to Hear Talk on World Fair

Mr. R. B. Harper will be the speaker at the meeting of the Armour chapter of the A. I. Ch. E. next Friday, December 11. His topic, "The Purpose of the World's Fair at 1933" is one of interest to all.

Although not formally connected with the administration department of the Century of Progress Exposition, Mr. Harper has assisted in various capacities on associated committees.

He is vice-president of the Peoples Gas Light and Coke Company, and he will have supervision over the exhibits for all of the gas companies.

### Alumni Defeated By Varsity Basketeers

(Continued from page 1)

The varsity showed up well in their first game of the season, with Rossing and Christoph featuring as point makers.

Jennings and Ott Star For Alumni  
Jennings and Ott played a good game at the forward posts and Hofer did well on the defense for the Alumni.

Wednesday afternoon Tech's basketeers journeyed to Bartlett Gymnasium and engaged the University of Chicago's basketball team in a practice game. When time was called at the end of the practice, it was found that Armour had won 27-19.

Armour—43			
	G	FT	F
Robin, r. f. ....	1	1	1
MacLennan, r. f. ....	0	0	0
Christoph, l. f. ....	5	1	1
Carlson, l. f. ....	2	1	1
Ilg, c. ....	1	2	2
Beemsterboer, c. ....	2	1	1
Rossing (capt.) r. g. ....	4	1	1
Casey, r. g. ....	0	2	0
Setterberg, l. g. ....	2	0	1
Omicinski, l. g. ....	0	0	1
Rummel, l. g. ....	0	0	1
Lukas, l. g. ....	0	0	1
Totals .....	17	9	11

Alumni—25			
	G	FT	F
Jennings, r. f. ....	3	3	1
Ott, r. f. ....	3	2	1
Kuffel, l. f. ....	0	2	3
Pepe, l. f. ....	0	1	1
Kuehn, l. f. ....	0	0	1
Guettlman, c. ....	0	3	0
O'Connor, c. ....	0	0	2
Hofer, r. g. ....	0	0	3
Rutkowski, r. g. ....	0	0	2
Manz, l. g. ....	1	0	1
Yount, l. g. ....	0	0	1
Totals .....	7	11	16

### RIFLE CLUB WINS FROM NEW YORK STOCK EXCHANGE

The Armour Tech Rifle team has been busy for the last two weeks shooting several matches.

The first of a series of three matches with the New York Stock Exchange was held two weeks ago. The Institute's team was the victor, winning by a total score of 1860 to their opponents' 1847. The team considers this quite a triumph as they were defeated by the strong New York team last year. The individual totals for the five high men of the shoot are as follows:

Armour	
Wilson .....	378
Hollman .....	375
Patla .....	373
Sachs .....	368
Helmick .....	366
New York Stock Exchange	
Davidowitch .....	374
White .....	372
Frost .....	370
Kingman .....	366
Arnold .....	365

Last week the Armour men again triumphed over their opponents of Ontario, California by a decisive total of 1874 to 1812.

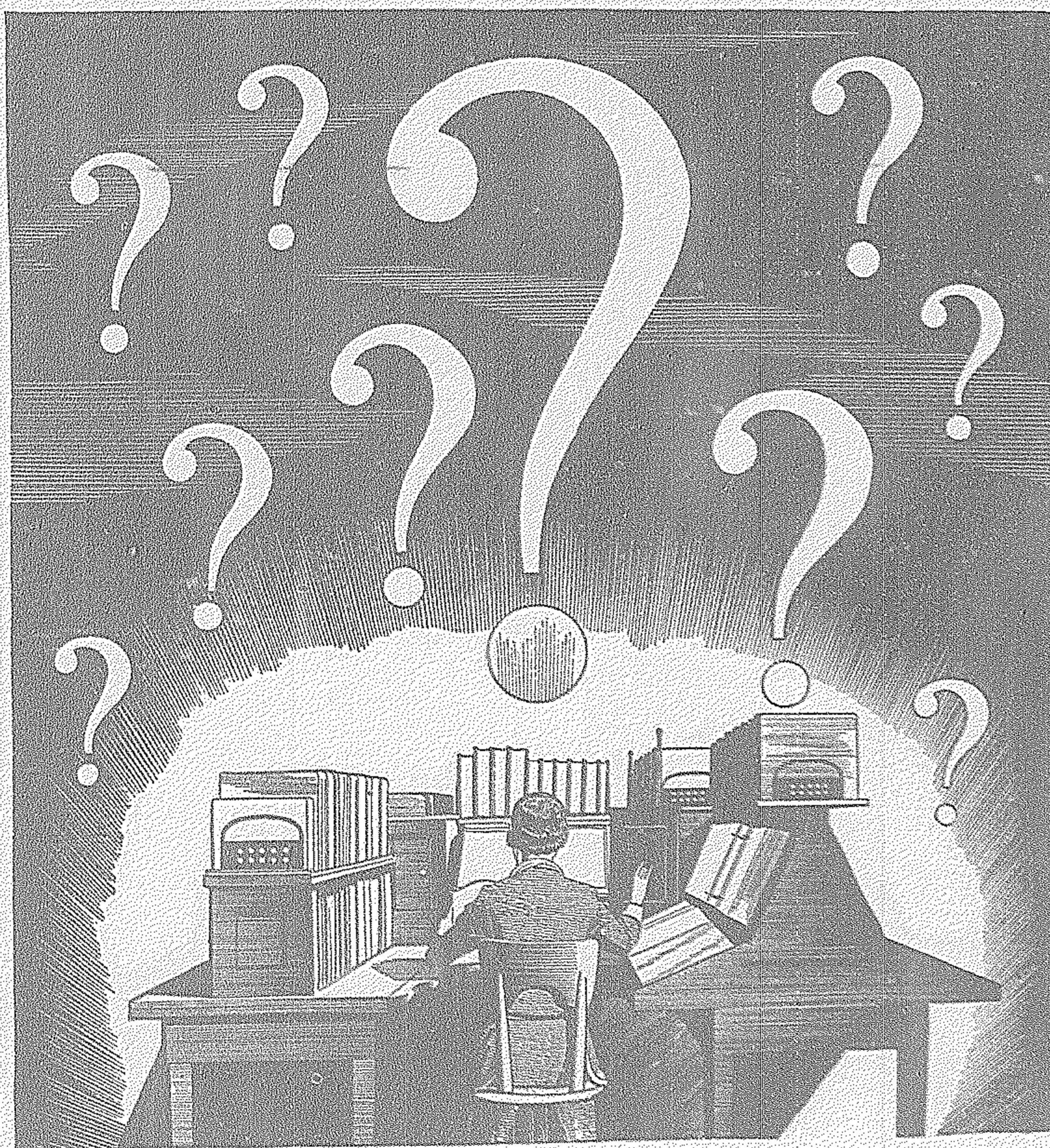
### Professor Hendricks' new book "DOUBLE DEALER"

will make an ideal Christmas gift

**\$1.00**

at the A. I. T. Bookstore

Robert Packard & Company Chicago



## Problem: how to answer a million a day

Users of Bell System service ask "Information" more than 1,000,000 questions every day. Providing facilities for answering them promptly, correctly, was one problem put up to engineers of the Bell System.

So effective was their solution that this prodigious task is now a matter of smooth routine. They designed desks which enable

each operator to reach quickly the listings of some 15,500,000 telephones. They developed apparatus which automatically routes calls to operators not busy—and should all operators be busy at once, it stores up calls and releases them in the order received!

Efficient telephone service depends upon working out interesting problems like this.

## BELL SYSTEM



A NATION-WIDE SYSTEM OF INTER-CONNECTING TELEPHONES



## STUDENTS VISIT UNIVERSAL ATLAS CEMENT COMPANY

An inspection trip to the Universal Atlas Cement Company at Buffington, Indiana, provided an afternoon of interest for the senior and junior chemicals last Wednesday, December 2.

This plant is the largest cement manufacturing company in the world, and has a capacity of 40,000 barrels per day. It is a subsidiary of the United States Steel Company.

All processes dealing with the treatment of raw materials to form cement were explained by the following men, who acted as guides: H. E. Gilbertson, W. Anderson, A. Thompson, L. W. Olson, and E. E. Feast.

Raw materials used in the manufacture of cement are: limestone, slag, and coal. These materials are brought to the docks in boats and carried to the plants from the docks by means of belt conveyors.

The slag, which is a by-product of the steel company, is passed through rotary driers and then ground up into particles one sixty-fourth inch in diameter. An automatic weighing machine passes the slag and limestone, which has also been dried and crushed, in the right proportions to the ball mill where it is given the final grinding before entering the kilns.

## R. B. Harper Praises Dr. Monin in Letter

Dr. H. Raymond recently received a letter from R. B. Harper, vice-president of the Peoples Gas, Light and Coke Company, in which he expressed regret over the death of Dean Monin. He writes:

"To the passing on of Dr. Louis Celestin Monin, as a most valued teacher and friend, I sadly bow my head in grateful recognition of the guidance and qualities he gave to me during my student days at the Institute. He helped to make this world a better place in which to live by the effect he had upon those who knew him. No greater testimonial to a man's success in life could be recorded at his death."

## Waukegan Companies Inspected By Civils

(Continued from page 1) minutest detail. This is done for emergency purposes, that is to assure a constant supply of water.

Another feature witnessed was the "tempering wall", a brick wall used to protect the lower walls of the building from disintegrating from the action of varying temperatures on the outside and an almost constant temperature within.

A miniature railroad is utilized to transport chemicals used in purification to the various parts of the building. In the laboratory, pictures of various harmful and harmless bacteria were viewed and the processes of water purification thoroughly outlined. According to the superintendent not even one B. Coli has escaped into the city mains since the plant was built. This microscopic B. Coli is an indicator bacteria and its presence shows the possibility of the presence of typhoid and dysentery germs.

## Professor Scherger Lectures on Wagner

The great musical compositions of Hans Wagner were featured yesterday by Doctor George L. Scherger, in his course of "Great Leaders".

The high points of a number of the most famous selections were pointed out by Dr. Scherger, after which they were played on a public address system from phonograph records.

This was made possible by a power amplifier, dynamic speaker, and electric phonograph furnished and installed by Morton Fagen and M. J. Schinke, senior electricals.

It is being planned to use the apparatus for musical entertainment during the lunch hour under the auspices of the Senior Social Committee.

## FRATERNITY NOTES

### PHI KAPPA SIGMA

The annual pledge dance, was held last Friday evening and was well attended in spite of inclement weather. Under the able guidance of Pledge Brother Walker, late of Northwestern, the freshmen have successfully concluded the social events for the current 1931 season.

Brother Weis, '31, and Brother Crose, of Alpha Xi Chapter, were visitors at the house during the last week.

Brother Reich, who left Armour last year to attend Illinois, was seen around the house during the Thanksgiving holidays.

No word has been received from Brother Guettler as yet, but all the members are singing that well known ballad, "Oh, Where Is Our Wandering Boy Tonight."

### THETA XI

Alpha Gamma Chapter of Theta Xi takes pleasure in announcing the pledging of Carl Landas, E. E. '35.

A week ago Saturday the annual pledge Dance was held at the house. It was well attended, several of the alumni coming down to meet the new men.

### RHO DELTA RHO

The annual pledge dance, held Saturday, November 21, proved to be very successful as was shown by the large attendance.

A round-robin tournament in ping-pong has been drawn up and play will soon be started. A trophy will be awarded to the winner.

Our active chapter's basket ball team has been challenged by the alumni for a game to be played December 15.

### DELTA TAU DELTA

The annual Pledge Dance of Gamma Beta chapter was held at the House on the evening of Saturday, Dec. 7th.

The Salmon brothers and John Estes of Gamma Lambda, Purdue, spent last Saturday night at the House, following the Northwestern-Purdue game.

"Pack" Brown, '21, is living with us at the present time, and J. E. Kempstead, ex-'20, attended chapter meeting last week. Bob Peacock, ex-'27, dropped in for a brief visit just before Thanksgiving holidays.

### SIGMA ALPHA MU

The annual Founder's Day meeting of Sigma Alpha Mu Fraternity was held Wednesday, Nov. 25. Alvin Auerbach, '31, who is now engaged in post-graduate work at the University of Illinois, was among the members who were present.

### SIGMA KAPPA DELTA

The annual all-house ping-pong tournament continues to hold the interest of the members, the many well played games in the early rounds promising several hard fought battles in the semi-final and final rounds.

In preparation for the interfraternity basketball tournament, the S. K. D. basketballers engaged the Delta Tau Delta men in a closely fought game. As there was no official scorer the count was declared to be a tie.

New results in the big bridge game show the defeat of Professors Leigh and Heald.

### BETA PSI

Beta Chapter wishes to thank Delta Tau Delta and Phi Kappa Sigma for the cordial invitations to their respective chapter dances.

Brother Otto Staib will be unable to continue playing for the house basketball team due to torn ligaments in his foot suffered in the hard close play with the Deltas last Thursday.

Beta's annual Christmas Dance will be held Saturday, December 19. A fine orchestra has been secured and a large number of alumni are expected to attend.

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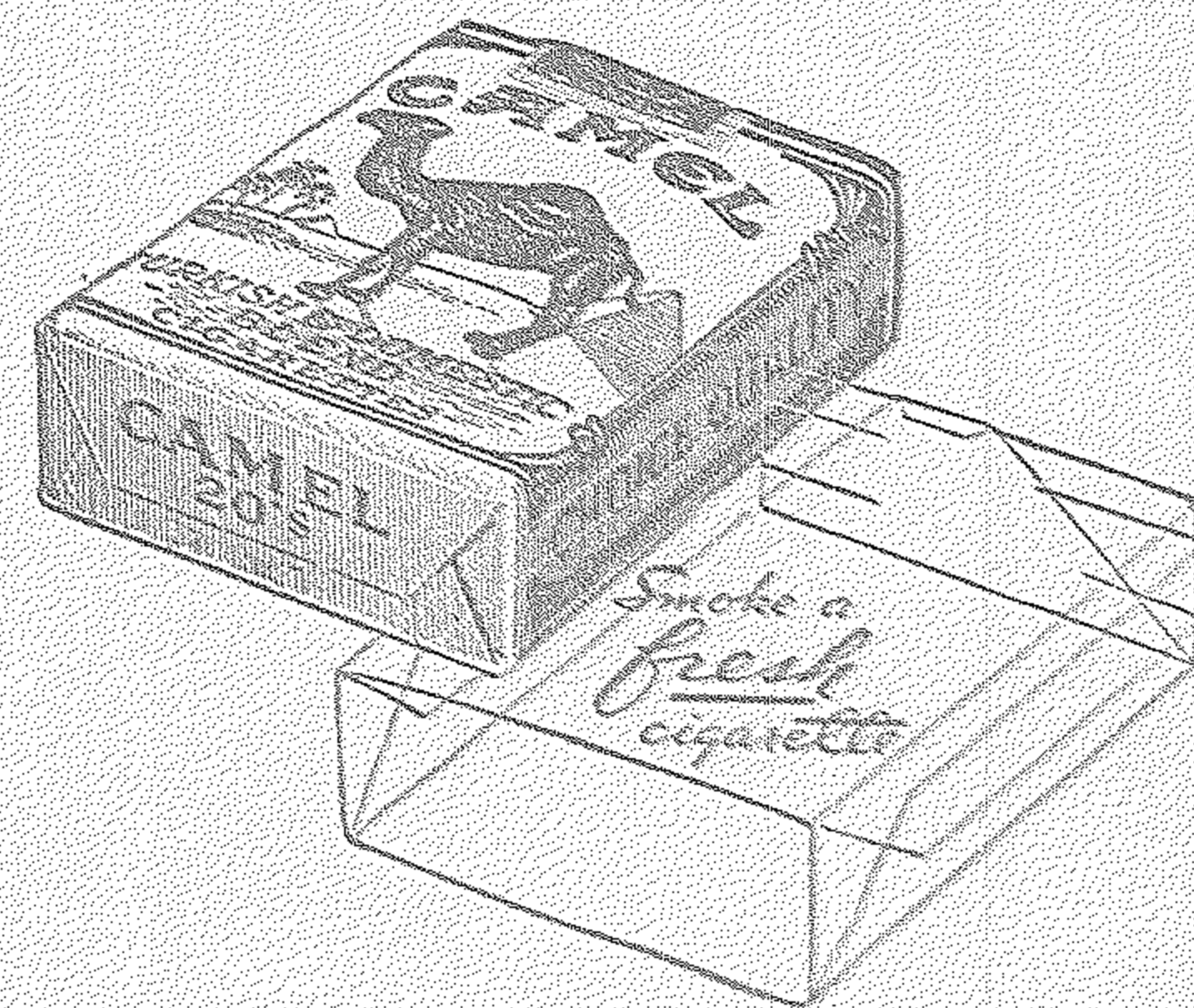
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# PHI PI PHI WINS FIRST CAGE GAME BY LARGE SCORE

## Theta Xi, Triangle, and Beta Psi Continue In Tournament

### FINAL GAME FRIDAY

Winning by a score of 25 to 9, Phi Pi Phi made its bid for the interfraternity basketball title by defeating Rho Delta Rho. The game was the first of the series beginning December 2.

The first quarter was closely contested but three baskets by Fishman put the Rho Delta Rho's in the lead, 6 to 4. In the second quarter the Phi Pi's unleashed an attack which turned the tables, and the score at the end of the half favored them, 14 to 8.

From then on the game was on ice. The game was fairly rough at times, and Casey and Fishman went out on personal fouls in the second half. Although they had trouble in getting started, the final score of 25 to 9 shows that the Phi Pi Phi's have a strong team.

In the second game of the evening Theta Xi emerged victor over Sigma Alpha Mu. Smethals, with four baskets, and Rummel, with three baskets, led the T. X.'s to a 19 to 4 win. Theta Xi gained a two point lead early in the game, and not until the third quarter did the team pile up points.

#### BOX SCORE

##### Phi Pi Phi—25

	B	F.T.
MacLennan, rf	3	1
Giske, rf	0	0
Carlson, lf	3	3
Leichtenberg, c	0	2
Casey, rg	0	2
Hora, lg, rg	0	1
Pfuum, lg	1	0
<b>Total</b>	<b>9</b>	<b>7</b>

##### Rho Delta Rho—9

	B	F.T.
Cannel, rf	1	0
Fishman, lf	3	1
Schneezeal, lf	0	0
Milevski, c	0	0
Meyer, rg	0	0
Hellar, lg	0	0
<b>Total</b>	<b>4</b>	<b>1</b>

Two more games of the preliminary round were played last Thursday, and both saw some rough playing.

In the first game of the evening, the Triangle team started off with a rush which netted them seven points in the first quarter, and in the second quarter the Kappa Delta Tau team scored once. In the second half, with the Triangle team ahead by a fair margin of points, both baskets were stormed by a barrage of shots from all parts of the floor, but only a few found their way through the hoop. Lind starred for the Triangles while Goldman and Rosenthal made the majority of the K. D. T. points. The final score was 20 to 12 in favor of Triangle.

The second game of the evening was more closely contested, although the Beta Psi team scored several shots in the first few minutes of the opening quarter, and held the Delta Tau Delta team to two points in the first half while they had chalked up seven points. In the second half both teams scored several shots, the Deltas climbing up to within three points of the Beta Psi total, but their rally fell short and the Beta Psi's won 16-13. Staib and Humiston scored all of Beta Psi's points and Streb and Cone starred for the Deltas.

#### BOX SCORE

	B	F.T.	P.F.
Beta Psi—16			
Jungels, c	0	0	0
Humiston, f	3	0	0
Staib, f	5	0	0
Anderson, g	0	0	0
Staron, g	0	0	1
<b>Total</b>	<b>8</b>	<b>0</b>	<b>1</b>

	B	F.T.	P.F.
Delta Tau Delta—13			
Streb, f	2	1	1
Malm, f	0	0	0
Cone, c	3	0	0
Beal, g	0	0	1
Kellogg, g	1	0	0
<b>Total</b>	<b>6</b>	<b>1</b>	<b>2</b>

## TECH SHORTS

### Successful Start

Coach Kraft's basketeers have started their 36th annual season last week with two consecutive victories over the Alumni and the University of Chicago, the latter 27-19, being the annual practice scrimmage between the two teams.

### Little Five League

It is being rumored about that Armour is intending to join the Little Five League consisting of such teams as Wheaton, Lake Forest, Beloit, and North Central. More information will be given out next week.

### Phi Pi Phi Wins Again

Phi Pi Phi started out for their 14th consecutive basketball title last week, trouncing Rho Delta Rho, 25-9. These boys have the spirit of Notre Dame in their quest for titles. The finals will be played on Friday night of this week.

Phi Lambda Upsilon, honorary chemical fraternity, challenges any other honorary team to a basketball game.

### Shooting Match

Several members of the senior civil class are getting proficient in the use of sling shots, bean blowers, and rubber band with spitballs. They will issue a challenge to the Rifle Club and Al Capone's gangsters in the near future.

### American College of Ph. Ed.

The varsity basketeers will play their third game Thursday night with the American College of Physical Education at the 8th Regiment Armory, 35th St. and Giles Ave. This promises to be a good game because the Physical Eds. defeated the strong Valparaiso college team last week, 21-18.

### Early Track Practice

Two junior F. P. U.'s, namely Elmer Sademan and Harold Bodinson, were compelled by their classmates to start their track practice early this season. (They were seen running toward Michigan Boulevard in their shorts. We wonder why!)

## Hockey Team to Hold Practice on Sidewalk

In a determined effort to start the season early, the Armour Tech Hockey Club has arranged for practice sessions in front of Machinery Hall, as no other place was obtainable.

Although the turnout has been comparatively large, more candidates are needed and urged to come out, as a large squad will make up the team and everyone has a chance. If the team makes a good showing this season through earnest effort in organization and practice, hockey may be given a chance next season as a minor sport.

Since the team is entered in the A. A. U. League, it will have no trouble in securing games, as the schedule will be made out by the league. If the ice makes its appearance and remains, the players are promised at least one game a week.

## Mermen Prepare for Oncoming Time Trials

Coach McGillivray, mentor of the swimming team, has requested that all candidates who wish to earn a place on the swimming team should come out for practice as often as possible now and also present themselves so that they may be timed for any distance in which they would like to compete.

The coach is especially desirous of meeting the new material, as after a new man has been timed, he can be corrected and advised as to his stroke, so that he may improve and cut his time.

In forming the team, Coach McGillivray will use the men who present the best times in practice before the meets, but it will be possible for anyone to contest a team member for any position if he can prove himself to be a better man.



## BASKETEERS TO PLAY THIRD GAME NEXT THURSDAY

Armour's quintet will meet its first regular outside competition on Thursday, December 10, at the Eighth Regiment Armory. The American College of Physical Education is scheduled as the opposition. This will be the first meeting of the teams and will probably prove to be an exciting basketball game.

A few of the Physical Education players have had experience in the A. C. League. They are somewhat older and more seasoned than the Tech boys, which fact should give them the edge as far as strategy is concerned.

Thursday's game will be about as hard as any on the schedule, but Armour's performance in the Alumni game and the University of Chicago scrimmage seems to indicate that the score will not be lopsided against them, for in both tilts this season Tech held the edge over their opponents. Coach Kraft urges the student body to support the team, especially in the home games. No guarantee will be given that the team will win all its games, but plenty of action will be shown.

So far this season the team has not been playing consistent basketball for they have shown spurts of speed and fine form at one time, only to look slow and lifeless at the next practice.

## Track Team to Hold Meeting Wednesday

Coach A. A. Stagg Jr. and Professor John Schommer will discuss the probable track schedule, training schedule, and the policies of the track team, during the next meeting which is to be held during this week. Men now on the team and prospective members for the team who have not as yet received their outfits will receive their equipment at this meeting.

The letter men of last year's squad shall also receive their "A" shirts at this time. It is imperative that all track men be at this meeting, because final organization which vitally affects every man will probably take place.

Coach A. A. Stagg Jr. is doing his noble best to acquire for the Armour men the use of the new Field House at the U. of C. which cost \$300,000 and is equipped in the most modern, up-to-date fashion.

Track men who desire to get some practice but who have no indoor track shoes, see Capt. C. Jens.

Don't forget to watch the bulletin board for the next meeting.

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## Gridiron Queries

By Professor John J. Schommer

**Question 36.** How many lateral passes may be attempted in one play?

**Answer.** Any number of lateral passes may be attempted.

**Question 37.** A man going out for a pass runs beyond the end zone. If he comes back into the end zone, is he eligible to catch the pass?

**Answer.** No. If pass is caught, it is ruled incomplete and down is counted.

**Question 38.** A man running with the ball along the side boundary is tackled on the field, but he flips the ball to the front and side, so that it goes out of bounds. Does the ball go where he was tackled or where it went out of bounds?

**Answer.** If he flips the ball forward, it may be ruled a forward pass not five yards behind the line of scrimmage, and therefore the play

would count as a down, and the distance would be lost. However, if the ball is flipped straight to the side or backwards, the ball will come out 15 yards from where it went out of bounds.

**Question 39.** On a pass thrown over the goal line, the ball is slapped back so that it drops down on the field of play. Is the pass incomplete or does the ball go out 20 yards?

**Answer.** The pass is incomplete, as the ball must strike the end zone for a touch-back. The play counts a down.

**Question 40.** How many forward passes may be attempted in one play?

**Answer.** Only one by the offensive team and none by the defensive team.

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