



Armour Tech News



Vol. 5. No. 9.

Armour Institute of Technology, Chicago, Illinois

Tuesday, April 15, 1930

FROSH DANCE FRIDAY APRIL 25

ARMOUR TECH NEWS PUBLISHES SECOND ANNIVERSARY ISSUE

Is Firmly Established With Two Year Record

ANSWERS DEMAND

This is the second anniversary issue of the *Armour Tech News*. Two years ago, on April 9, 1928, the first issue of the *News* made its appearance. It was, at that time, a five-column paper which was to be issued every two weeks. Since then it has grown to the six-column weekly that it is today.

The need of a newspaper at Armour was felt for a long time before the first issue appeared. As each incoming freshman class entered the school the question was raised as to why there was no student newspaper. These men, many of them, came from high schools which had weekly or bi-weekly papers and had not yet learned of the rigorous Armour schedule of courses. Soon these men would be completely buried in their studies and all thoughts of a newspaper put out of their minds.

Yet the feeling that a student newspaper was needed gradually increased and spread and finally an attempt was made to start one.

Thus, two years ago, the first issue of the *Armour Tech News* was offered to the student body with John Hommes as editor, Professor Walter Hendricks as faculty advisor, and an enthusiastic group of upper-classmen as staff. Those first issues of the Spring of 1928, five in number, were sold at fifteen cents per copy.

The following September the *News* began publication on a weekly basis. After a few weeks it was expanded to a six-column paper from the five-column one that it had been, and has continued as such to the present time.

Western Electric Donates Machine

A donation in the form of a Brown and Sharpe 2½ universal milling machine was received by the machine shop last Monday, March 31, from the Western Electric Company.

Upon unloading the machine at Armour, the rope, which held it while sliding down the "skids" from the truck to the walk, broke. Because of this the heavy cutter tumbled down, with the result that the vertical feed was injured and a few other breaks incurred. Mr. Tornhof, instructor in the machine shop, is now repairing the milling machine which will soon be mounted in the neighborhood of the others for use by the students.

The Western Electric Company has donated three Hendy lathes to Armour in the machine shop besides the milling machine just received.

E. D. Lord, Speaker at W. S. E. Meeting

The Armour branch of the Western Society of Engineers will hold its meeting of the semester tomorrow in Room B, Morrison Building, 11:30 a. m.

Mr. Edward D. Lord will be the speaker and will talk on "The Board of Trade Building."

NOTICE

There will be no issue of the *Armour Tech News* Tuesday, April 22. The Easter holidays, April 18 and 19, come at the critical time in the preparation of the paper, and an issue of the paper on the following Tuesday will be an impossibility. However, the full quota of fifteen issues per volume will be distributed to subscribers this semester.

JUNIOR FORMAL TO BE HELD MAY 16 AT CONGRESS HOTEL

The Junior Formal Prom, the culmination of junior week, has been definitely set for Friday, May 16th, at the Gold Room of the Congress Hotel. The chairman of the social committee, Berlyn G. McLaughlin, has selected Dell Lampe's orchestra to furnish the music.

The bids will be out at the end of the week, and McLaughlin is said to expect a large turnout, due to the excellence of the music and the choice cuisine.

The bids are to be priced at \$8.50, this price being approved by the class as shown by a petition being circulated by the committee.

Lecture, Dance Marks A. S. M. E. Anniversary

The fiftieth anniversary of the founding of the A. S. M. E. was celebrated in the Red Lacquer Room of the Palmer House, Tuesday evening, April 8. Mr. H. S. Dickerson, the chairman of the meeting, gave the history of the society. The principal speaker of the evening was Dr. Thomas, a representative of the Westinghouse Electric and Manufacturing Co. He lectured on some of the latest developments, among which were the photoelectric cell, telelux, the mechanical man operated by sound and electricity, and the automatic lighting of airports by approaching airplanes.

The lecture was followed by entertainment and dancing, after which the meeting was adjourned.

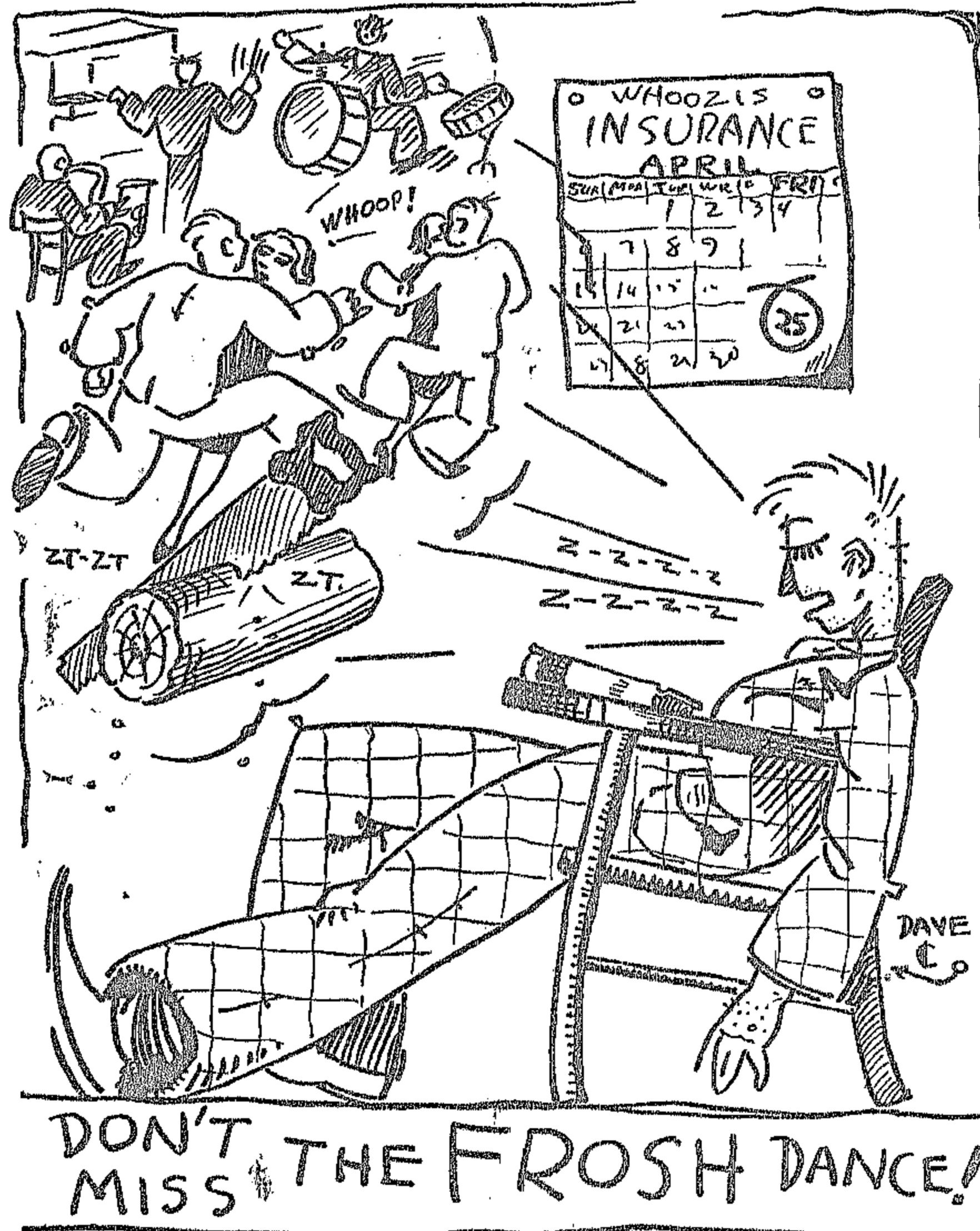
Relations Committee Selects Dr. Scherger

Dr. G. T. Scherger, Professor of History and Political Science, has been asked and has accepted membership on the Committee on the Cultural Relations with Latin America. The membership in the committee includes such noted men as Robert M. Hutchins, president of the University of Chicago, H. E. Fosdick, noted clergyman, and Dr. John Dewey.

The "Fifth Seminar" of the Committee is to take place in Mexico City, July 5-25, 1930. The Seminar is described by Dr. John Dewey as one of the most important factors in promoting good relations between Mexico and the United States.

Civils to Make Trip To City Sewage Plant

The junior and senior civils will make an inspection trip today to the north side sewage disposal plant of the Sanitary District, Howard avenue and McCormick road. The plant is of particular interest for the process used there. It is the Activated Sludge Process and the plant is the largest of its kind in the world. It is the first trip that the civils are making there since the plant was completed.



Professor Nash Tests Radio Tone

Professor Charles A. Nash, of the Electrical Department, recently conducted a series of tests to prove that the Kennedy screen-grid radio receiving sets faithfully reproduce programs put on the air by the various broadcasting stations.

Through the use of a very delicate instrument, the recording oscillograph, Professor Nash constructed photographic records of modulated currents direct from the amplifier employed by the broadcasting station. He then made comparisons with records obtained from a strictly stock receiver tuned in on the same wave length.

The oscillograph records of both tests showed the "curves" or "sound waves" of the broadcasting station to be definitely comparable to the "waves" from the Kennedy Receiver. The curves of both, within the limits of the human ear, were practically identical.

Minor differences in each case were so slight that they were not apparent to the naked eye.

Honorary Fraternity Dance Set for May 2

The date of the regular annual Inter-Honorary Informal has been set for May 2, according to Edward Rowley, M. E., '30, who is in charge of the arrangements. The dance is to be held in the Dutch Room of the Bismarck Hotel, the Royal Chicagoans furnishing the music. Only members of honorary fraternities are eligible, but it is expected that 75 to 100 couples will attend.

Prof. Daniel Roesch Writes Airplane Book

Professor Daniel A. Roesch of the Mechanical Engineering department has just published a book, "Airplane Engines." The book contains a description and explanation of the Gnome, Hispano-Suiza, Liberty 12, and Wright Whirlwind motors. The book was prepared to be used in connection with a Theoretical or Practical Mechanics Course. Most of the information presented is a result of the experiments and studies of these motors that have been carried on by Professor Roesch.

Senior Class Favors Banquet

Much progress was made at the meeting of the senior class held Thursday at 11:30 in the Assembly Hall. The meeting was called by Robert Serson and many items were discussed concerning graduation.

Reports were made by the chairmen of the committees on announcements and jewelry. Friday, April 11, was the deadline set for announcements and seniors were told to act promptly in order to get theirs. Reports of the jewelry committee shows that seventy-five per cent of the class has procured jewelry.

A vote was taken as to whether the senior event should be a dance or a banquet and the result showed the class to be in favor of a banquet. Robert Serson then told the class that the banquet would be held under different conditions than in former years and the usual program would not be adhered to.

The banquet, however, requires the sanction of Dean Palmer, but as the students have a different frame of mind from former years, it is believed his consent will be obtained.

CALENDAR

WEDNESDAY, APRIL 16
Armour Y College Baseball
4:00 p. m. Ogden Field
W. S. E. Meeting
E. Mission 11:30 a. m.
Friday and Saturday, April 18 and 19
No School. Easter Holidays
FRIDAY, APRIL 18
Drake Relay Time Trials
4:00 p. m. Ogden Field
THURSDAY, APRIL 24
DeKalb Teachers-Armour Baseball
4:00 p. m. Ogden Field
FRIDAY, APRIL 25
Freshman Dance
Sherman Hotel, Louis XVI Room
SATURDAY, APRIL 26
Drake Relays at Des Moines
Lake Forest-Armour Baseball at Lake Forest

TO BE HELD IN LOUIS XVI ROOM OF HOTEL SHERMAN; BIDS BEING DISTRIBUTED

New-Dale Florida Revelers to Provide Necessary Syncopated Rhythm

ROBERT BELFORD FRESHMAN SOCIAL CHAIRMAN

Bids for the Freshman dance to be held Friday, April 25 are now in the hands of the members of the class social committee. The affair will be held in the Louis XVI room of the Sherman hotel with music

furnished by the New-Dale Florida Revelers.

Robert Belford, chairman of the social committee and his assistants, are working to put this dance over in a big way. The price is \$2.50 a couple and bids can be obtained from any member of the committee or from any of the men listed below.

The men on the Social Committee are W. E. Nordell, H. Bodinson, T. Luckett and D. Chadwick.

The following fellows also are selling the bids:

R. Lake
H. Hendricks
E. Sademan
A. Winkler
E. Curren
H. Regnery
J. H. Bruni
H. Reich
J. Gura
C. Simon
R. Golden
J. Hurley
J. W. Juvinall
H. Larson
R. Nelson

'Y' College Team Here Wednesday

The third engagement of this season is that with Y. M. C. A. College and will take place tomorrow. This will give the "Y" batsmen an opportunity to avenge the two defeats they received last year at the hands of the Kraftsmen. If they expect to accomplish this, however, they will have to display some real baseball, because there are indications that this year's combination is one that will give the opposition something to think about.

Coach Kraft expects to try out some of his new hurlers in this clash in order to see where his best material lies among the new recruits.

Initiation Smoker of Campus Club Thursday

The Campus Club will stage a smoker a week from this Thursday, April 24. At this time seven candidates for membership will be initiated into the club. After entertainment by the initiated the members will partake of the refreshments and smokes.

Fire Protects to Have Meeting Wednesday

Mr. Leonard Peterson, F. P. E. '16, is coming from New York to speak at the regular meeting of the F. P. E. Society in Science Hall, Wednesday, April 16.

Mr. Peterson, who is Special Agent for the Home Fire Insurance Company, will speak on "Use and Occupancy Insurance."

Professor Writes Scientific Article

Professor Freud, in collaboration with his wife, has published an article in the March 28 edition of the "Science Magazine." This article explains how the ring method of determining surface tension can be used for accurate determinations if certain corrections are made.

TWO HONORARIES ANNOUNCE NAMES OF MEN PLEDGED

Tau Beta Pi, honorary engineering fraternity, held pledging ceremonies last Friday afternoon in their rooms. The following juniors were selected to wear the brown and white pledge pins of the fraternity:

A. E. Auerbach, C. E.
A. F. Wilde, F. P. E.
R. M. Krause, M. E.
W. E. Schirmer, F. P. E.
B. S. Lindquist, C. E.
A. J. De Long, Arch.
W. Drigot, E. E.
Eta Kappa Nu, honorary electrical fraternity, pledged the following men from the junior E. E. class:

C. Blahna.

W. Penfold.

H. S. Marando.

E. S. Warner.

A. R. Draus.

Seniors Inspect the Sherwin-Williams Co.

The Sherwin-Williams Co., located at 115th Street and Cottage Grove Avenue, was the subject of an inspection trip made by the senior chemicals a week ago last Thursday, April 3, 1930. Professor Bentley was in charge of the group.

The Sherwin-Williams Co. are the world's largest manufacturers of paints, varnishes, lacquers, disinfectants, etc. In addition to producing the above materials, the plant turns out 3,000,000 cans in which the products are sold.

The making of white lead, first by the "Dutch" process and second by the "Carter" process particularly interested the students.

Sophomores Invited to A.S.M.E. Smoker

The Armour Chapter of the A. S. M. E. will hold their smoker tomorrow night at the Sigma Kappa Delta house.

A special invitation is extended to the sophomores to attend this smoker. The officers of the Senior branch and faculty are expecting to be there. The smoker will start at 8:30 with refreshments later.

Heritage Gives Talk On Chemical Warfare

The Armour branch of the A. I. Ch. E. enjoyed the privilege of hearing Major Heritage of the Chemical Warfare service of the United States Army speak on "The Relations of Chemical Industry to the Manufacture of Chemical Warfare Agents," last Tuesday, April 8, at 11:30 in the Physics Lecture room. The speaker was obtained through the courtesy of Professor Freud, and President Tarman wishes to thank the members for their compliance with the request that they come early.

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Exchanges.....A. J. Aukstaitis, '31

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ASSEMBLIES

The two assemblies recently held have emphasized the ridiculous arrangement for the seating of classes which is now in use. The upper-classmen, who by right of seniority should be allowed the best seats, are found in the balcony, while the freshmen occupy the choice seats. Many times when a speaker's voice does not carry, it is impossible to follow the talk in the balcony seats. At other times, when an illustrated talk is given, or experiments are conducted, the juniors and seniors are in the dark as to just what is going on.

The reason for such an absurd arrangement is custom. Custom only demands that seniors and juniors should sit in the poorer seats, but it takes quite a bit of courage to break away from custom and one's crowd and take a better seat downstairs.

The impression a speaker gets of his audience is obtained from the men on the main floor, and it is an unjust impression by virtue of this system. From force of habit, he will talk to the men on the main floor, assuming that the older and more serious minded men are to be found there. He will judge the age of these men, and carry away the false impression that the student body at Armour is made up of youths eighteen or nineteen years old.

The numbers in each class will readily adapt themselves to a more sensible plan. The seniors could take the seats in the center section of the main floor; the juniors, the seats remaining on the main floor. The sophomores could occupy two sections of the balcony, the middle and one on the side, leaving the freshmen to fill the less desirable seats on the sides of the balcony.

This plan of seating is merely a suggestion put forward by the News in the interest of bettering our assemblies. If the plan is a sensible and a logical one, it is up to the student body to defy custom, and put it into effect at our next gathering.

SOPHOMORES AND JUNIORS

All Sophomore and Junior students seeking Summer employment in Chicago or cities in neighboring states and interested in sales work, arrange to meet Mr. E. B. Kapke (A. I. T. '28), of Milwaukee Electric Crane & Hoist Corporation, in Science Hall at 10:30 A. M. Wednesday, April 16th. The work will consist of concentrated sales work with small industries.

"The Slipstick"

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

THE HUNTER

I shoot the hippopotamus
With bullets made of platinum
For if I should use leaden ones,
The hippo's hide would flatten 'em.
Micro Mike

H. A. M. says, "Now that we have prohibition all we can do is "gin and beer it."
It takes mighty little jack to raise a car, but it takes a lot of jack to keep it up.
Sparks

Which Proves a Saying—A Stitch in Time Saves Nine
The new stenographer looked like a million dollars. "Class" was written all over her. The office force in accord acclaimed her "some dame." Then she opened her velvet lips and said to the office boy: "Say, Bozo, ain't there no carbon paper around this dump?"
Chester

Accomplishments—Getting your Irish Terrier to bark with the brogue.
They Probably Weren't Any Good Anyway
Magistrate: "The police say that you and your wife had some words."
Prisoner: "I had some, sir, but I didn't get a chance to use them."
Dick.

You cannot sue the city for getting pneumonia while riding in open patrol wagons.
This Same Guy Hums the Theme Song at the Talkies
Director—"Have you got a good musical education?"
Aspirant—"You bet. Just mention the name of any song, and I'll tell you what's on the other side of the record."
R. S. F.

NOT FROM ARMOUR THOUGH

One fellow is so dumb he thinks he will graduate in four years.
Two lazy seniors were trying to outdo each other, while discussing the future.
No. 1: "I think I'll open an ice factory in Alaska."
No. 2: "Swell, I'll be your bookkeeper."
Chuck

If you noticed something strange about school, it's probably the quietness of the library. And how?
College.—
An institute of scholars
Wiser than I.
But, just as human as I.
Why am I
Not as learned as they?
Am I only a blot
On Humanity?
Bob D.

What About B. O.?

"Come forth, come forth, Ben Hur," shrieked Iras. But he came fifth and just escaped pyorrhea.
Micro Mike

Teacher: "Joseph, what are you going to give your little sister for a birthday present?"
Joseph: "I dunno, last year I gave her chicken pox."
C. C.

A very efficient F. P. E. lost his job, because he ordered unbreakable glass put in all fire alarm boxes.
J. S. McC.

Sonny Boy, Singing in the Bath Tub
Frat: "Has she a very good musical education?"
Fred: "Splendid. You can tell her the name of a song, and she can tell you what's on the other side of the record."
A. J.

FAST WORKER

The young woman who had entered college to get a degree had suddenly, in the middle of her sophomore year, announced her engagement to her "prof." Her friends said, "But, Henrietta, I thought you came up here to get your Ph. D.?"
"So I did," returned the girl, "but I had no idea I'd get him so soon."
J. S. McC.

A Scotchman was heard to remark that he would give a thousand dollars to be a millionaire. We don't believe it.

The Kidder Again—He's Witty—What?
The kidder comes back to us with an answer to his riddle, "Why is a mouse when it spins?" Answer: Because, the higher the fewer. Now this leaves us pretty dizzy. It would anybody.

All absence this afternoon can be attributed to the attraction over on Thirty-fifth and Shields—the Sox are here—Batter up!
K. K.

Professor Eugene Edward Gill

(A Biographical Sketch)
BY CHARLES BLAHNA '31

Eugene Edward Gill, Associate Professor of General Chemistry, was born at Boring, Maryland on September 17, 1875. He attended grammar school at Boring and high school at Reistertown, Maryland about five miles away. From high school he went directly to Dickinson College at Carlisle, Pennsylvania and received his Ph.B. and A.M. degrees from there in 1897 and 1898 respectively. Strange to say his A.M. degree was taken in history but that is explained by the fact that his subject could be taken while not in residence while chemistry could not.

From 1898 to 1899, he taught in a high school at Montgomery, Pennsylvania. The following year he was engaged as instructor in mathematics and science at Morrisville College, in Morrisville, Missouri. During the next three years he was part editor and half owner of *The Budget*, a country newspaper with offices located in Brookfield, Missouri.

The teaching profession, however, called to him again and for three more years Professor Gill returned to it. This time he taught in the Colorado Preparatory School affiliated with the University of Colorado, located at Boulder, Colorado, a small city situated within fifty miles of Denver. Besides changing from school to school, from city to city, and from occupation to occupation, he also changed the subjects which he taught, and picked on physics and chemistry for his topics.

In 1906, he returned to Maryland and entered the Johns Hopkins University in Baltimore where he studied for three years. The degree

FRATERNITY NOTES

DELTA TAU DELTA

The following men were elected to office April 8, 1930: President, James McAlear; vice president, Jule Lenke; corresponding secretary, J. R. Jackson, Jr.; secretary, Elmer Holin; ritualist, Harmon Holt; sergeant at arms, Daniel Pearson.

The Chapter held a dance at the house Saturday, April 12.

of Ph.D. in chemistry was conferred upon him in 1909 after his presentation of a thesis on the "Accurate Measurement of Osmotic Pressure of Cane Sugar Solutions at Five Degrees Centigrade." During the same year he came to Armour and has been bothering the freshman with courses in chemistry ever since. Besides the day school courses he also gives night and summer school courses each year.

Professor Gill married Miss Ora Powell of Macon, Missouri, in 1903 and they have two adopted children, a boy and a girl.

He is co-author with Professor Tibbals of the textbook on Qualitative Analysis used at the Institute. He is also the author of a book of General Chemistry edited by Professor Freud and used by the American School in Chicago.

While at college he was connected with all school publications and was business manager of the newspaper and the annual at Dickinson College. He is member of the Phi Beta Kappa fraternity.

Outside of school work he is chiefly interested in touring the country. A true contrast to the close, fume-filled laboratory is this form of recreation, especially when one camps out as Professor Gill does.

TRIANGLE

R. H. Windbigler was unanimously elected to succeed R. Spencer as president of the fraternity. The other officers that were elected are as follows: Vice president, Harry Bailey; treasurer, Stan Lind; recording secretary, Harvey Rossing; steward, Maynard Venema; corresponding secretary, Art Oberbeck; chapter editor, Harold Bodinson; house manager, Don Fetterman, and librarian, Roger Waindie.

Herb Hoff of the alumni board administered the oath, after which he called a board meeting.

Stan has completed the plans for a "Father's Night."

SIGMA KAPPA DELTA

Henry Fox, '31, is out of school with scarlet fever. Everyone in the house has been tested and there is no danger of anyone else taking it. The Annual Hard Times party was held last Saturday, April 12, 1930.

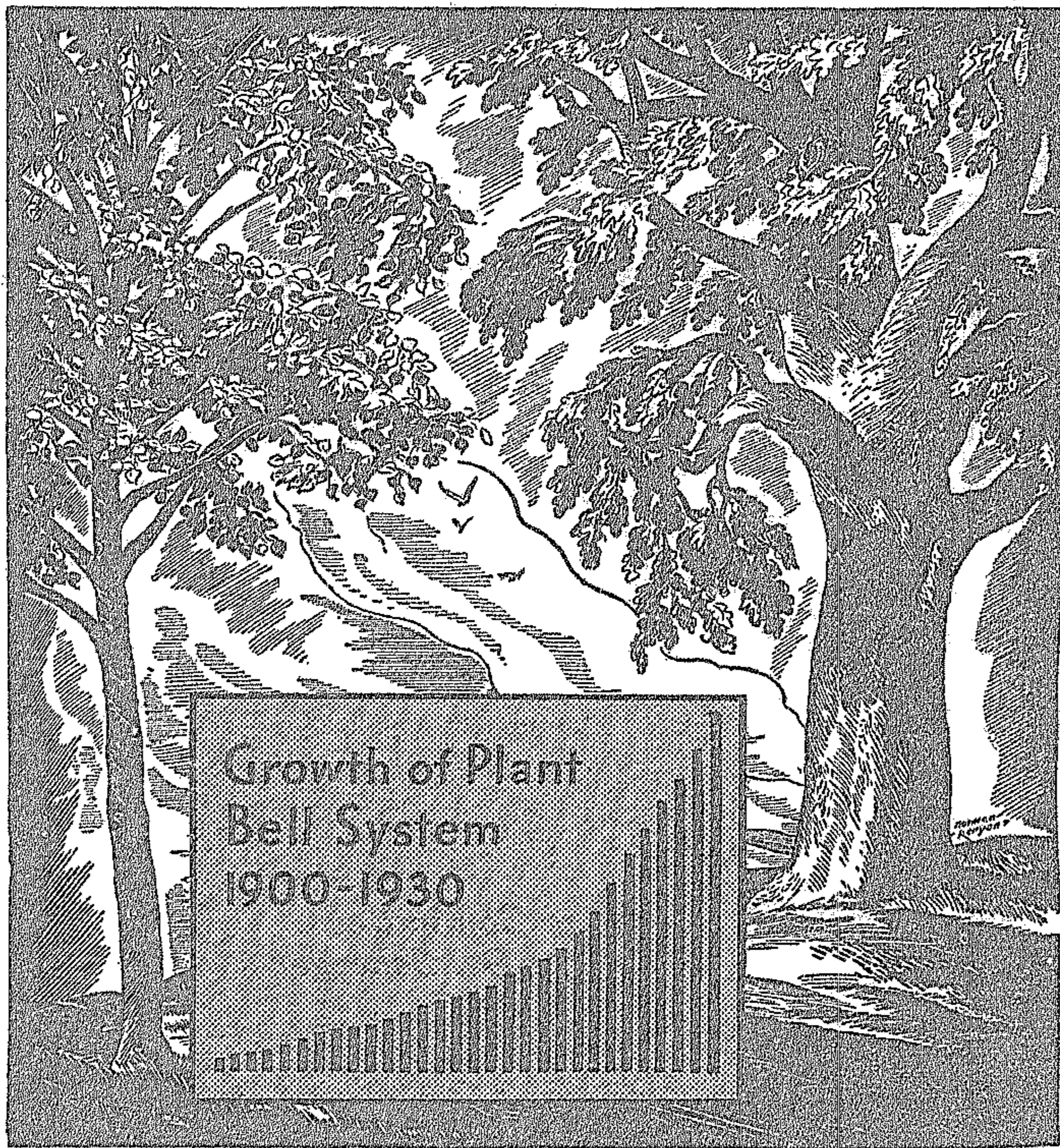
BETA PSI

At a meeting held Friday, April 4, the officers for the coming year were elected. The results are: President, Berlyn G. McLaughlin, '31; vice president, Frank S. Austin, '31; treasurer, Alton J. Jungels, '32; secretary, Walter M. Trauten, '32; sergeant at arms, Frank A. Rutkouski, '31.

Beta chapter will be well represented April 19 at the annual "black and gold" dance to be held in the Grand Ball Room of the Drake hotel with Waddy Wadsworth entertaining. Sponsored by the chapter at U. of Illinois this dance will see large numbers of Armour and Lake Forest men present.

PHI PI PHI

Gamma Chapter of Phi Pi Phi wishes to announce the formal pledging on April 8, 1930 of Bert Lindquist, '31, and John Fako, '33.



Speed of the aspen,
Strength of the oak

The Bell System has vitality. It grows. It meets the needs of the nation for more and more service, for many new kinds of service.

To do this it has increased plant investment in twenty-nine years from \$181,000,000 to more than three and three-quarter billions. Rapid growth, yet growth that has gone step by step with smoother operation, greater efficiency.

From laboratory and field constantly come developments and improvements which add to the System's usefulness. Here there is a dynamic urge to do it better. The telephone organization stays young—it thrives on new ideas.

BELL SYSTEM

A nation-wide system of inter-connecting telephones



"OUR PIONEERING WORK HAS JUST BEGUN"

ARX NEWS

The monthly meeting of the American Institute of Architects was held last Tuesday at the Architectural Sketch Club of Chicago.

B. Miffin Hood, former president of the American Ceramic Society and Professor Rexford Newcomb of the University of Illinois were the chief speakers. Mr. Hood's topic was, "The Value of Ceramics to Modern Architecture," and Professor Newcomb spoke on, "Ceramics of China and Japan."

Both talks were illustrated with slides. The Professor displayed several pieces of ceramic work he had collected on his recent tour around the world. Among them was a piece from the Church on the Rock, given to him by a friend in charge of remodeling operations on the historic structure.

Professor Newcomb is professor of History of Architecture at the University of Illinois. He is the author of many prominent books on the subject chief among them, Franciscan Mission Architecture of Alta, California, The Volute in Architecture and Architectural Decoration, The Old Mission Churches and Historic Houses of California, Architectural Monographs on Tile and Tilework, Outlines of the History of Architecture, and The Spanish House for America. At the next meeting of the society, May 17th, Ralph Adams Cram, prominent architect of church design will be the speaker.

In the recent Class A, II project, "A Cooperative Apartment Hotel," Marvin R. Dobberman, Everett Goldenberg, and Frank Polito rated 2nd medals.

There will be an exhibition of photographs of bridges by Charles S. Whitney at the Burnham Architectural Library during the week of April 9. This collection of photographs is of great value due to its completeness.

Mr. Whitney is a graduate engineer of Cornell University and has been engaged in many prominent engineering construction projects. He spent 15 months in France during the war with the engineers. He is a member of the American Institute of Consulting Engineers, American Society of Civil Engineers, and other engineering societies.

He is the author of many prominent books on engineering chief among them: Concrete Designers' Manual; Design of Symmetrical Concrete Arches; Bridges, A Study in Their Art; Science and Evolution; and articles appearing at various times in magazines.

At the last informal meeting of the freshman architects, William W. Davies was elected Massier of the class and Carl Schultz was elected Sous-massier.

The freshman architects challenge any team at Armour to a game of indoor baseball. The freshmen rate themselves high and send out their dare to everyone.

Architecture is the art which so disposes and adorns the edifices raised by man for whatsoever uses, that the sight of them contributes to his mental health, power and pleasure.

Ruskin.

We hope that the readers are interested in this column. We will gladly receive any comments or suggestions as to the contents and articles to be written here. Please give them to the editor or drop them in the News box by the side of the elevator in the Main building.

H. P. R.

Civils Hear Lecture on Paving Materials

Last Monday, April 7, the seniors in Professor Pearce's highway course and the juniors in Professor Well's "stresses" course attended an illustrated lecture on "Hot Paving Materials" from 9:30 to 11:30 in B. Mission. The talk was given by Mr. McClintock, a representative of the Warren Bros. Co., manufacturers of paving materials. Although the talk was originally intended to last only one hour, it was allowed to continue past its time because of the interest shown in the subject.

Alumni News

An announcement of marriage of Willys E. Thomas, M.E., '29, to Miss Mary Burnett of Oak Park, on March 22 has been received. Thomas is connected with the McQuaid Radiator Company.

O'GRADY PLANS TO REMODEL CITY

Dr. Omar O'Grady, '17, is going to remodel the city of Natal, Capital of three State of Rio Grande del Norte of Brazil. Six years ago, he was elected Mayor of Natal, and "courageously undertook the transformation of a typical drowsy tropical city in a picturesque setting into a bustling city equipped with efficient public services."

Dr. O'Grady has had the foresight to realize that Natal, owing to its unique, geographic position is destined to play a prominent part in international commercial aviation, not only between North and South America, but also on the Europe-Africa-South America route. His plan of remodeling of the city will make it one of the most attractive of modern cities as well as a thoroughly efficient aerial and maritime port. His photograph and an interesting article showing his plans of the city were published in the January 18 issue of the Brazilian American, the Business Builder Magazine of Brazil.

Robert F. Schreimer, a member of the Fire Protectors' class of 1917, died of appendicitis a short time ago. He was employed by the Home Insurance Company of Chicago at the time of his death.

PEASE FINDS LARGEST STAR

Mr. Francis G. Pease, '01, recently found the largest star known at present. He is an Astronomer and Engineer at the Mt. Wilson Observatory, Pasadena, California.

With the new instrument to be put in use stars larger than any now known may soon be found by astronomers at the Mt. Wilson Observatory. It is known as the fifty-foot interferometer, and consists of a steel "bridge" 54½ feet long on which move mirrors to pick up the light of a star.

Mr. Pease used a smaller instrument of the same type, attached to the 100-inch telescope, the world's largest, to find this new star. It is called Antares, in the constellation of the Scorpion, and is large enough that if it were hollow it would hold the solar system with the earth and other planets out to Mars, with 55,000,000 miles to spare on all sides.

Mr. F. G. Pease graduated from Armour in 1901 in the Electrical Engineering course. He received his M.S. degree in 1924 and his D.Sc. degree in 1927.

INVESTIGATE RADIO CONDITIONS

W. Oldenburger, C.E., '14, who is now in charge of the affairs of the Pilot Radio and Tube Company in Mexico City, has recently completed arrangements for a tour of South and Central American cities in the interests of radio developments. The tour, which is now in progress, is being made by plane. Zeh Bouck, well known radio writer, is accompanying the pilot, William H. Alexander.

The plane is equipped with complete radio transmitting and receiving apparatus for the purpose of investigating the radio conditions in the country through which the tour is to extend. The success of radio communication over the route selected by the sponsors will furnish valuable information for future development. The terrain over which the ship is to fly will likely create differences in the radio transmission and the determination of such phenomena is one of the objects of the trip.

Dean Penn Attends Memphis Meeting

Dean Penn is attending the annual meeting of the American Association of Collegiate Registrars held this week from April 14 to 18 at Memphis, Tennessee.

The business program is one of exceptional interest and includes an address by Dr. Ray Lyman Wilbur, Secretary of the Interior, and former President of Leland Stanford University.

High Speed Engine Given Severe Test

A novel, eight cylinder, high speed steam engine was in the mechanical department for testing and experimental purposes. The engine was of the single acting V type, having the same general aspect as that of the new Packard motor.

The manufacturers claim that it will develop 200 horsepower at 3,000 revolutions per minute, and it is the purpose of our engineers to determine the accuracy of this statement, as well as to estimate the engine's efficiency and its practical worth.

Pumps, generators, lathes and drills have been operated very satisfactorily by this new machine, and it is probably destined to be utilized extensively in the future for a great variety of purposes.

Junior Chemicals See Linseed Oil Process

Hydraulic presses attaining a pressure of 3,800 pounds per square inch and huge filter presses were the features of the inspection trip taken by the Junior Chemical class through the Hirst and Begley Linseed Oil works.

The raw flaxseed, explained the superintendent of the plant, is taken from the trains and elevated by conveyors to the top floor of the building. Here it is sifted to remove any oats, hay or foreign material and then sent to the crusher. From here the mash is sent to be heated in steam jacketed kettles. It is then wrapped in cloth to keep it in a cake and subjected to a pressure of 3,800 pounds per square inch in the hydraulic presses for about one hour.

The oil which is pressed out is filtered through the filter presses and stored for shipping as raw linseed oil or else boiled with manganese dioxide to form boiled linseed oil.

The cake left in the presses after the oil is removed is ground up and sold for feed.

The Hirst and Begley plant, although not the largest in the city, has the largest daily capacity of any plant in this section.

Majority of Students Pass Condition Exams

Examinations for the removal of conditions were held during the week of March 3. The results which are indicated after each subject show the number of students taking and passing the tests.

Thermodynamics	7	2
Senior Steel Const.		
(Arch.)	5	5
Structural Design		
(F. P. E.)	5	4
Phys. I	28	21
Phys. I (Arch.)	10	5
Phys. II	4	1
Business Law	10	9
Precision of Meas.	12	9
Mech. Mat. and		
Graph.	11	5
Mech. I	27	19
Mech. II	1	1

Leigh and Mangold's Mechanics Book Out

Several notable changes have been incorporated into the new edition of Leigh and Mangold's text on Mechanics. It has been enlarged considerably and contains a large quantity of new material which will make it large enough to accommodate the architects in a one-year course and will be easily adaptable in form to night school, vocational and agricultural school courses which require something of a concise and practical nature such as this new text.

Several chapters have been added on the subject of statics, which was not dealt with very extensively in previous editions.

The authors had one definite purpose in mind when they made up the new edition, namely, that the subject should be handled in such a way that a good foundation for strength of materials should be obtained. This last feature is rather unique in its application and it is believed that this type of text will fill a long felt need for something of this type.

Tibbals Writes for March "Chem. & Met."

In an article in the March issue of *Chemical and Metallurgical Engineering* on "Forestalling Industry's Fire, Explosion, and Poison Hazards," Professor Tibbals of the Chemistry department, describes the Explosion Testing Station of the Underwriter's Laboratories. This station, which is unfamiliar to most Armour students, is located on a tract of land near Lemont, Ill.

"In recent years," Professor Tibbals states, "It has become important for the laboratories to conduct tests covering:

1. The resistance of safes of certain types to explosive attack with nitroglycerine or other high explosives such as may be employed by burglars.
2. The explosive properties, if any, of certain materials when subject to fire conditions, percussion or high explosive shock. Such materials include certain types of synthetic fertilizer ingredients.
3. The performance under fire conditions of cabinets for the storage of cellulose nitrate photographic film, and other devices containing materials which may give off explosive or poisonous gases or smokes.
4. The hazardous characteristics of "poison gases" for commercial use as fumigants.

Tract Acquired in 1929

To the end that such tests might be carried forward effectively and safely the Laboratories acquired in 1929 the tract of land near Lemont. This tract has been developed into a complete testing ground which includes:

1. A chemical laboratory especially equipped for the preparation of nitroglycerine for use in high explosive attack on safes. It is effectively guarded by rock barricades and a barbed wire fence.
2. An explosion room for making tests with high explosives upon safes, cylinders, etc. This room has a heavy concrete floor, heavy rock barricades as walls and a roof of steel rails.
3. An explosion pit protected by rock barricades and covered with a roof of steel rails, used for testing materials to determine whether or not they are liable to explosion or detonation under fire conditions or under explosive shock.
4. A laboratory for use in testing poisonous gases and devices intended for the use or storage of poisonous gases or which may evolve poisonous or explosive gases under fire conditions. This building is built of steel on a heavy concrete floor. It is practically gas-tight, and is provided with small mica windows for observation, facilities for the collection of gas samples for analysis, and for the operation of a sprinkler system.

Barricaded Retreat

A heavily barricaded retreat is provided for the safety of personnel during explosions.

Water is taken from a lake on the property by means of a small power house, and proper magazines are provided for safe storage of explosives and detonators.

The article is illustrated with many pictures of both the Laboratories on Ohio street and the Lemont Laboratories. Professor Tibbals is employed as Special Chemist for the Underwriters.

A.I.Ch.E. Holds Annual Smoker

The annual smoker of the A. I. Ch. E. was held at the Phi Pi Phi house, Wednesday evening, April 9th. As fast as the men present could empty the bowls of candy and peanuts they were refilled as though they were supplied from the Horn of Cornucopia.

An entertainment of varied nature was presented. E. P. Boynton, after a brief introduction by J. Tarman, president of the A. I. Ch. E., recited the "Shooting of Dan McGrew." At the psychological moment the lights were extinguished and the shooting commenced. Because blanks were used no one was injured. C. E. Morris next read his original poem, "Ode to the Odor of H₂S." The Schmier-Chemiker Trio, composed of J. R. Goldman; C. E. Morris, and P. M. Ruzevich next sang a number. To show that each member of the Trio was talented, three solos were sung. Ruzevich started with "Dream Train," Morris followed with "The World Is Waiting for the Sunrise," and Goldman concluded with "On My Big Bass Viol." A dissertation, the "Determination of the Atomic Weights of the Four Elements," was read by O. R. Steinert. Dean Penn, Professor McCormack, and Dr. Freud concluded the entertainment with brief talks.

Following the entertainment the men were divided into two groups to have their pictures taken. According to latest reports the cameras are still in good shape. The picture taking over, each man returned to his respective game. Among the games bridge and poker seemed to predominate. "Griff" and "Harold" were also among the notables of the Chem department present. Almost the entire freshman class was present and all agreed that whenever there was an A. I. Ch. E. smoker in view they would be sure to see that their schooling did not interfere with their pleasure.

Contest Announced to Name New Train

Collegiate America is being asked to create a name for a new crack passenger train to be operated between Chicago and St. Louis, Missouri, by the Chicago and Eastern Illinois Railway. The appeal for a name is being made by E. H. Batchelder, General Passenger Agent of the railroad, who will award prizes totaling \$150.00 to the persons who submit the two best suggestions. The person whose suggestion is finally accepted will be given a check for \$100.00, and the one presenting the second best name will be given \$50.00.

The contest will close April 30th, and the names of the winners will be announced on about May 15th. Suggestions for a name should be marked "Name Contest" and addressed to E. H. Batchelder, General Passenger Agent, Chicago and Eastern Illinois Railway, 922 McCormick Building, Chicago, Illinois.

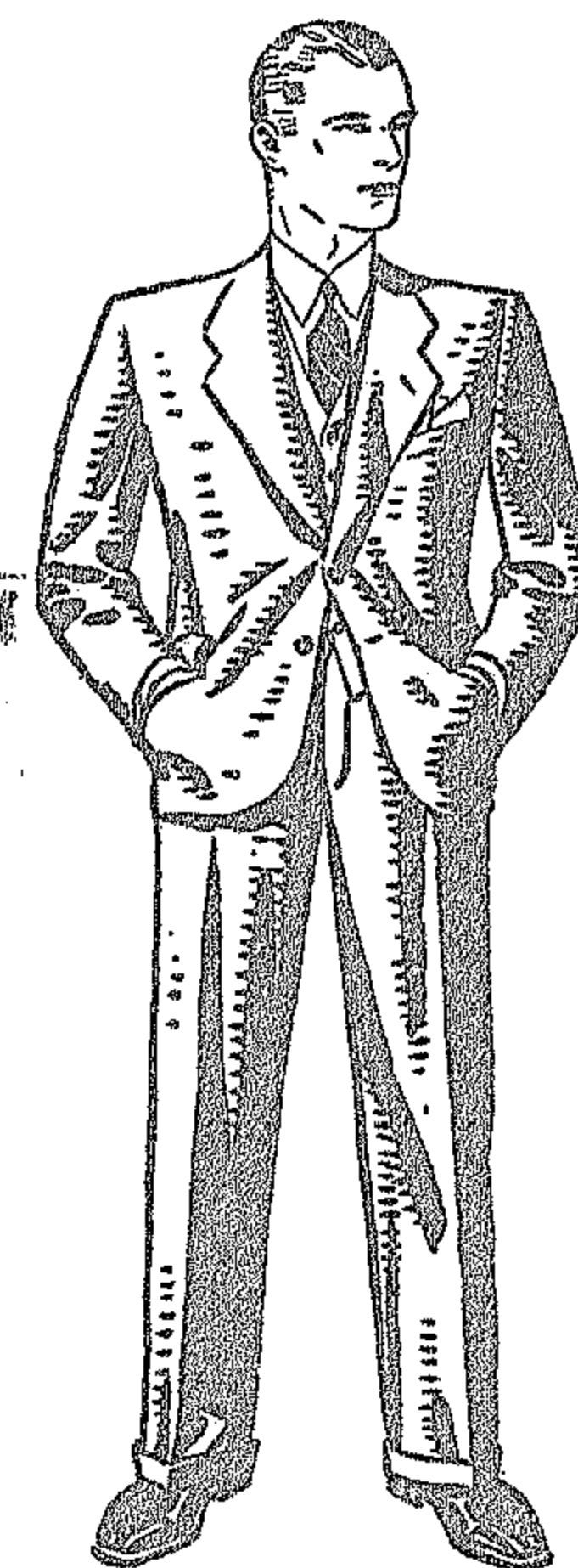
The new train now to be named will leave Chicago about 3 p. m. daily and arrive in St. Louis before 10 p. m. The eastbound train will leave St. Louis at 8:45 a. m. and will arrive in Chicago early the same afternoon.

New Summer School Bulletins Now Ready

The new summer school bulletins are in the office ready for distribution. Practically all of the regular courses are offered in the summer school session that begins June twenty-third and ends August first this summer. Some of the regular four year courses include a scheduled summer school course, such as the civil camp.



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TECH NINE WINS DECISIVE VICTORY OVER MORTON IN FIRST DIAMOND ENCOUNTER

Simpson and Stehno, Armour Hurlers, Show Great Form in Opener

FINAL COUNT IS 6-1

Armour Tech and Morton Junior College of Cicero, Ill., engaged in a baseball game, the first in Armour's season, on Ogden field last Thursday afternoon. When the dust of the battle cleared away, Tech was on the long end of the count by 6 to 1. Perhaps the most gratifying part of the game was the condition of our moundmen, King Simpson and Chief Stehno, who showed good control when mowing down the opposition.

As this was the initial game of the year, it seems as though all things including old Sol, are smiling down on us. We even had the support of about 300 men at the game. Nothing spectacular occurred except that Morton's star southpaw had our batsmen completely baffled for the first few innings. Kraft instilled no small amount of strategy into the proceedings when he had Weldon and Pepe bunt at opportune times. This changed the aspect of the game, allowing Armour to gather five runs in that inning.

DeOrto did a very acceptable piece of work behind the home plate. Miran, the new face at short stop, put up some good work at that position. A big surprise was in store at third base where none other than Mago resided. He played a bang up game. Nothing definite was produced in Michalski, for he did little to show his skill. Otherwise the lineup was filled with vets from last year's invincible squad.

Box Scores

Armour-6	AB	R	H	PO	A	E
Hauser, c.f.	4	1	0	1	0	0
Anderson, r.f.	3	1	1	0	0	0
Reichle, 2b	3	0	0	1	2	1
Robin, 1b	3	1	1	6	1	0
Miran, ss	2	0	0	1	1	0
Michalski, lf	2	0	0	0	0	0
Stehno, p	1	0	0	1	0	0
Mago, 3b	2	0	1	0	1	0
DeOrto, c	1	0	1	1	0	0
Weldon, ss	1	1	1	0	1	0
Pepe, lf	1	1	1	0	0	0
Simpson, p	1	1	0	0	1	0

24 6 6 21 7 1

Morton-1	AB	R	H	PO	A	E
Mitchell	3	0	0	2	2	1
Saum	3	1	1	0	0	0
Motto	2	0	0	4	2	0
Jirka	3	0	0	7	2	0
Kobza	3	0	2	0	2	0
Capouch	1	0	0	1	0	0
Saltzman	2	0	0	0	0	0
Dean	3	0	0	4	0	3
Skerdiant	3	0	0	0	0	1
Petrovsky	2	0	0	0	0	0

25 1 3 18 8 5

Summary: 2-base hits, Saum, Kobza (2), Mago. Strikeouts, Stehno 4, Simpson 7, Kobza 4.

Committee to Compile Armour Track Records

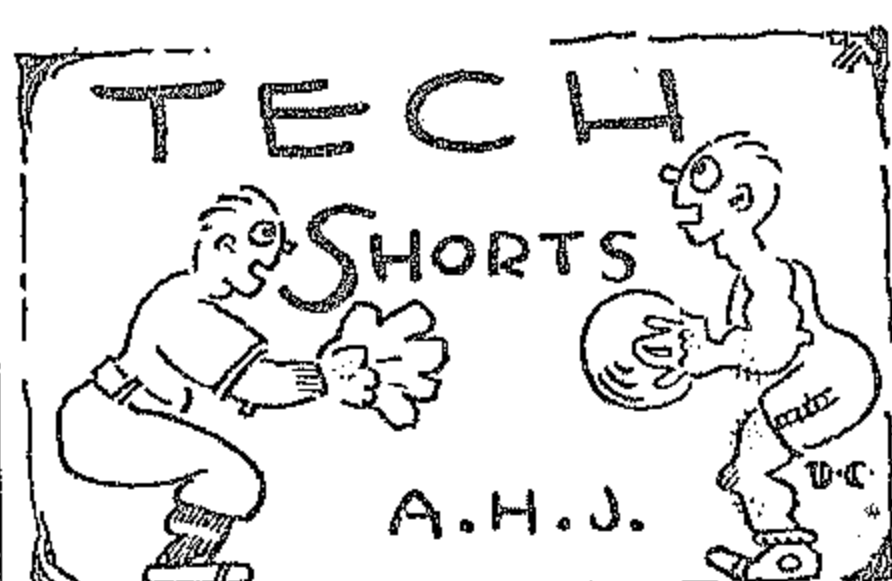
Frank M. James, F. P. E., and Harold L. Fox, M. E., have been appointed by Vernon Sturm to assist him in the work of compiling the Armour track records for both the indoor and outdoor teams.

The records had been published yearly in the Cycle previously to 1927 but since then no published record has been made.

The breaking of the indoor records for the one and two mile runs by Elmer Sademan, '33, and of the indoor record for the 440 yard run by Vernon Sturm have brought out the need for such a committee.

It is hoped that a case may be obtained in which the records may be posted and changed as they are lowered. In this way it would be possible to have an up-to-the-minute account of Armour's track activities at all times.

When offered a cigar by an old friend, Joseph M. Talbot of Santa Rosa, Cal., resumed smoking after having sworn off for 43 years.



A Blizzard Then 90 in the Shade
A short time ago we were in the throes of a raging blizzard. There were nearly 20 inches of snow on the ground then. At the time of this writing the temperature is 90 in the shade and no shade present.

Boxers, Basketeers to Receive Awards

The Armour Tech Athletic Association, at a recent meeting, made decision on which members of the boxing and basketball teams should receive awards.

The men who are to receive major awards in basketball are: W. K. Simpson, captain; H. C. Rossing, F. Rutkowski, W. Miran, C. J. Robin, S. A. Ott, E. R. Rowley and Manager H. W. Faulstich.

Minor awards in boxing will be given to the following: J. P. Donnelly, A. Montesano, M. W. Morowitz, S. Schwartz, F. A. Ustryski, N. D. Buehling, captain, C. R. Mitchell, M. G. Whitfield, M. C. Larkin, and Manager L. J. Steck.

A staff of six men was appointed to make election of members for the 1930 staff of the A. T. A. A. Following are the men on the committee: W. K. Simpson, C. H. Fox, G. E. Davisson, H. C. Rossing, J. Cavanaugh, and B. C. Scott.

Tech Tracksters to Have Five Meets

The final outdoor schedule of the 1930 track team has been issued this week by Coach Lonnie Stagg.

On April 25 and 26 Coach Stagg is planning to send Captain Don Paul to the Drake Relays at Des Moines, Iowa, to compete in his specialty, the shot put. He should do better in this meet than he did at the Illinois Relays because he has improved his form considerably in the last couple of weeks. He took a second place in that meet against a select field of the best university shot-putters in the country. A two-mile relay team will also represent Armour in the college relays.

Wheaton will give Armour one of its hardest dual meets of this season at Stagg Field on April 29. Sademan will then be able to resume his rivalry with Hess, Wheaton's flying minister, in the half-mile, mile, or two-mile runs.

The 1st annual Armour Outdoor Invitational Track Meet will be held on May 3rd at Stagg Field. The meet will probably include the following schools: Lake Forest, Wheaton, Beloit, Chicago Normal, Y. M. C. A. College, Morton Junior College, Wisconsin State Normal College, Armour Tech, University of Chicago, 2nd team, and Concordia Seminary College.

If Armour is as successful in this meet as they were in the Indoor Invitational, the other teams will have to give them plenty of competition in order to beat them.

Y. M. C. A. College will compete against Armour in the second outdoor meet of the season at Ogden Field on May 7. Armour easily defeated "Y" last year, rolling up its largest score of 71 points.

On May 10 and May 13 Armour will compete against Lake Forest and Loyola respectively, away from home. "Tech" has defeated Loyola in the indoor season, and with more men competing, should easily do it again. Lake Forest will be the dark horses of Armour's track schedule. They have several good men who won places in the Invitational meet, and should offer strong competition in a dual meet.

This has been Armour's most successful track season. The team has already won six meets by decisive scores, and should do equally well in the outdoor meets.

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INDOOR TRACK STANDINGS

	Morton Meet	Elmhurst Meet	Loyola Meet	Crane Meet	Chicago Normal, Y. M. C. A., Triangular Meet	Armour Invitational Meet	Total Points Indoor
Capt. Paul	10	10	8	8	7	10 1/2	53
Sademan	5	5	10	8	10	14	52
Sturm	10	8	9 1/4	8	8	9	50 1/4
Kara	6	4	3	8	7	6	34
James	5	3	2	5	6	8	29
Iverson	3	1	5	5	5	6	25
H. Fox	3	3	4 1/2	3	3	4	20 1/2
Timmermans	5	3	4 1/4	..	2	..	14 1/4
A. Jens	..	5	..	3	1	4	13
Sorenson	3	5	..	..	..	..	8
Hirsch	1	1	1 1/4	1	2	..	6 1/4
Luckett	..	..	3	1	..	..	4
Smith	..	..	..	3	..	..	3
Helmick	..	1	1/2	..	1 1/2	..	3
Ireland	3	..	..	..	..	..	3
McKinney	1	..	1	..	..	..	2
Borrowdale	..	..	..	..	1	..	1
Total	55	49	50 1/2	52	53 1/2	61 1/2	321 1/2

Tennis Courts Are Now Open for Play

The four Armour tennis courts are now ready for use. The annual tournament must get under way immediately, so that a possible choice of men for the team can be selected. The following are the rules governing the use of the courts, and must be strictly adhered to:

1. Courts are open to all members of the A. T. A. A., including all Tennis "A" Alumni.
2. No one is permitted to enter the courts by any way other than through the gate.
3. Key may be obtained at the Bookstore, and must be returned the same day as taken. If store is locked, return key through the slot in the door.
4. Tennis shoes must be worn. Soft soled "sneakers" are best.
5. The courts are closed on Sunday.
6. Members of the Tennis Team and candidates with regularly assigned matches have priority during the spring season.
7. It is necessary that all small children be excluded from the courts at all times, for their own protection against accident. Please keep gates closed.
8. Good sportsmanship and a spirit of co-operation are expected of all tennis players at all times.

The official schedule of the 1930 tennis team is as follows:

- April 25—Lake Forest at Lake Forest.
- April 29—Loyola at Armour.
- April 30—Notre Dame at Armour.
- May 2—"Y" College at Armour.
- May 6—Valparaiso at Valparaiso.
- May 9—St. Viator at Kankakee (tentative).
- May 13—Loyola at Loyola.
- May 15—De Kalb at Armour (tentative).
- May 19—Lake Forest at Armour.
- May 20—"Y" College at University of Chicago.
- May 23—Valparaiso at Armour.
- May 26—St. Viator at Armour (tentative).
- May 27—Notre Dame at Notre Dame.
- May 29—De Kalb at De Kalb (tentative).

Smoking is allowed in the library at the University of Minnesota, according to a statement in the Minneapolis Daily.

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DECIDE SCHEDULE FOR FRATERNITY SPORT CONTESTS

April 21 is Opening Date for Baseball Contest

GOLF TO END SEASON

At a meeting held last Wednesday, Interfraternity Manager Weldon, together with the representatives of the various fraternities, worked out a schedule for the spring sport contests to be held soon. Indoor baseball will begin on April 21 and the winner decided on May 5, when the championship game will be played. The track events will be conducted during Junior Week under the direction of the junior marshals. Tennis playoffs will come between the 7th and 19th of May, while the golf tournaments will close the interfraternity sport season. A list of the games and when they will be played are given here. Only the first bracket is shown.

Indoor Baseball

- April 23—Beta Psi vs. Delta Tau Delta.
- April 21—Rho Delta Rho vs. Sigma Alpha Mu.
- April 25—Sigma Kappa Delta vs. Phi Pi Phi.
- April 22—Theta Xi vs. Phi Kappa Sigma.

Triangle and Kappa Delta Tau drew byes in the first round.

Tennis

- May 7—Triangle vs. Kappa Delta Tau.
- May 6—Phi Pi Phi vs. Sigma Alpha Mu.
- May 7—Delta Tau Delta vs. Rho Delta Rho.
- May 8—Phi Kappa Sigma vs. Beta Psi.

Sigma Kappa Delta and Theta Xi drew byes in the first round.

Golf

- May 20—Sigma Kappa Delta vs. Delta Tau Delta.
- May 20—Rho Delta Rho vs. Phi Pi Phi.
- May 20—Theta Xi vs. Triangle.
- May 20—Phi Kappa Sigma vs. Kappa Delta Tau.

Beta Psi and Sigma Alpha Mu drew byes in the first round.

Sunlight Effects Injure Gasoline

Motorists may have noticed that the glass tank atop of the gasoline pumps in service stations is often tinted. This is not merely a decorative idea, but represents a scientific effort to minimize the decomposing effect of sunlight on the gasoline that stands in the glass tanks. It has been found that certain elements, particularly the rare earths, impart a delicate tint to glass which filters out those rays of the sun which tend to crack the gasoline.

Many other interesting discoveries have been made lately regarding the effects of these substances in glass; a trace of neodymium in the glasses of one's spectacles should partially correct color blindness.

Golf Team Scheduled to Play Northwestern

The Armour golf squad will probably hold its first practice meet with Northwestern a week from Saturday. This match will open the 1930 season which so far as is known will be a heavy one for the Tech golfers.

Deaths by violence in Dallas decreased by 23 in 1929 as compared with 1928. There were 20 fewer homicides in 1929.

Aviation courses, sponsored by the Curtiss-Wright flying service, are included in the second semester curriculum at Butler.

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