



Armour Tech News



Vol. X No. 8.

Armour Institute of Technology, Chicago, Illinois

Tuesday, November 8, 1932

THREE PROMINENT MEN ELECTED TO ARMOUR BOARD

T. S. Hammond, E. A. Henne, G. G. Thorp
New Members

IMPORTANT ADDITIONS

Three prominent men in industry and business have been elected to the Board of Trustees of Armour Institute of Technology in recent weeks. Thomas S. Hammond, Ernest A. Henne, and George G. Thorp have been added to the Board membership, which already represents many of the leading forces in industry, commerce, and business, in the Middle West.

Mr. Thomas S. Hammond is the president of the Whiting Corporation. He is also vice-president of the Grindle Fuel Equipment Company, The Swenson Evaporator Company, and the Joseph Harrington Company. Mr. Hammond is a Brigadier General in the Illinois National Guard and in the Reserve Army of the United States.

Ernest A. Henne is vice-president of the American Fire Insurance Company comprising the following institutions: American Eagle Fire Insurance Company, Continental Insurance Company, Fidelity-Phoenix Fire Insurance Company, First American Fire Insurance Company, Maryland Insurance Company, and the Niagara Fire Insurance Company.

Mr. George G. Thorp, president of the Illinois Steel Company, was the third man elected to the Armour Board of Trustees. Mr. Thorp was in charge of design, construction, and operation of the Gary Steel Mills. He is also the vice-president of the Indiana Steel Company and the Gary Land Company. He is a member of the American Society of Mechanical Engineers and the American Iron and Steel Institute.

Armour Players Choose Subject

The Armour Players decided last Wednesday to hold a grand meeting of all the members on Wednesday, November 9, at 12:30 in room G, Chapin Hall. The prime object of this meeting will be to organize the club on a definite basis. For this purpose, new officers will be elected, and a new constitution will be set up, and the next play will be chosen definitely.

All students with previous stage experience and willing to join the club are requested to be present at this meeting.

Copies of the plays under consideration were distributed among the members, so that a final decision may be made at the next meeting.

Sophomore Chemical Applies Fire Test to Partner's All-Wool Suit

Those that happened to see a small fire in the Organic lab last Tuesday didn't know it, but they were witnessing the outcome of a very important and scientific (schmier) experiment undertaken by chemists Babcock and Schmidt. At the beginning of the semester Ed Schmidt bought a suit of clothes. It was a very fine suit, an all wool suit the salesman said, and while Mr. Schmidt was slightly skeptical, he optimistically hoped that the "tag told the truth." Mr. Schmidt is now convinced.

It all came about by Emmet Babcock, Schmidt's partner, questioning the quality of the suit in question. But the final test is the fire test—wool will not burn—and Schmidt didn't think burning his suit to find out whether it would burn was such a hot idea. However, the argument was settled for them in the laboratory Tuesday.

The experiment for the day was

Electrical Head Gives Two Talks

The Armour Tech Radio Hour, which is given every Thursday afternoon at 2:30, and Sunday evening at 6:00 over station WJJD, had as its speaker on October twenty-seventh and thirtieth, Professor Ernest H. Freeman, head of the Electrical Engineering department.

Professor Freeman in his talk given Thursday afternoon treated the history of "the art of electrical engineering" from the first experiments of the Phoenicians and Greeks who, by rubbing amber, made it attract light objects, up to the work of such famous men as Paraday, Henry, Edison, and Marconi.

Although the Greeks were the first people to note the effects of magnetism several hundred years B. C., it was not until 1000 A. D. that any great steps were taken in advancement. At this time Gilbert, an English physician and scientist, who had been conducting experiments on electricity and magnetism, published his book on the magnet, which was "the greatest contribution to electrical science up to that time and far over one hundred years thereafter."

Recent Developments

From this point Professor Freeman cited the rapid advance of knowledge in the electrical field by mentioning the results of experiments conducted by Franklin with lightning, Alexander Volta with the electrical battery, and the work of

(Continued on page 3)

Films Shown at A.I.E.E. Meeting

A meeting of the Armour branch of the A. I. E. E. was held Friday, November 4 at 10:30 in Science Hall.

Three reels of film were shown. Two of these described the operation of the General Electric Refrigerator, and the other one concerned the subject of Einstein's Superconductor control.

The General Electric Refrigerator uses sulfur dioxide gas, the evaporation of the liquid gas cooling the refrigerator. This evaporated gas is compressed and sent through the cooling coils on the top of the refrigerator.

Paul Thompson Wins Eta Kappa Nu Award

Paul James Thompson has been awarded The Standard Handbook for Electrical Engineers as first prize in the Eta Kappa Nu Essay Contest for the year 1932. He presented a two thousand word article entitled, "Lightning—A Review of Progress Made in Its Study." The article will appear in a future issue of the Armour Engineer.

Honorable mention is given to Clarence Huxton for his essay on "Wind Energy," and to G. F. Graham for his article on "The Pentode Tube."

A.T.R.C. TO HOLD HANDICAP MATCH AMONG MEMBERS

Interest runs high among the members of the rifle club. A shooting match is to be held during the week of November 7. This match will be a way of showing Armour's strength on next year's team as men who make a good showing now will be considered for membership on the team.

The match is to be conducted under the following rules: First, all scores must be in before November 11. Second, all scores turned in before the beginning of the match will be used to determine the handicap which each man will receive. The handicap is determined by subtracting the best score the man shoots from 400 and adding the difference to the score he shoots during the match. Third, a man must shoot scores for four positions namely, prone, sitting, standing, and kneeling. Fourth, an entry fee of five shells must be paid to the range officer, and fifth, three prizes are to be given.

Preparing for Matches

The contest is open to members of the club. The number of the club shows that it has a membership of 32 men. K. L. Buckley has recently been elected official reporter of the club by the members. The team has been practicing very diligently on the matches with the New York Exchange will start within the next few weeks.

This contest consists of three matches. Eight men are allowed to shoot, but only the five highest scores are to be counted. This match is a postal match, that is, the results of each team's shooting are sent to the other team by mail. At present the Exchange team has a slight edge over Armour's team.

Musical Fraternity Pledges Seven Men

Pi Nu Epitola, Armour's honorary musical fraternity, announced seven pledges last Tuesday. They are: Gunnar Berglund, Paul Mullinger, John Bremser, Clarence Clarkston, Milton Collett, Edward Sanderson, and Stanley Vanderpoorten. These men have successfully passed an examination which was composed of both musical and engineering questions.

One of the tasks suggested as work for the pledges is the proper lettering for the musical bulletin board which is now located in the entrance of Mission Hall. All arrangements concerning the musical organizations will be posted thereon.

P.L.U. Pledges Three Seniors; One Junior

Aided by the presence of almost the entire membership of last year, now graduate students, Phi Lambda Upsilon, honorary chemical fraternity started its activities for the year with a pledging smoker held last night in the Tau Beta Pi room.

Three seniors and one junior passed the requirements for pledge-ship: J. Galvani, K. L. Buckley, W. G. Hollmann, and W. E. Gundersen; they afterwards received the congratulations of the active and alumni members while refreshments were being served.

Mr. Kelly at College Registrars' Meeting

Mr. E. Kelly, Armour's registrar, attended the annual meeting of the Illinois Association of Collegiate Registrars held on October 28 and 29 at Bradley Polytechnic Institute, Peoria, Illinois.

Many topics regarding the work of the registrar were discussed, some of the more important being the evaluation of credits, grading systems, and the forging of transcripts. The latter topic was especially interesting in that it revealed the various methods some college applicants use to gain entrance to college. Forging of high school records and false statements in applications are the common violations.

Rules for Frosh Again Published

Last semester there was some talk of making our freshmen conform to rules and regulations set down by the upper class men. Such was the idea of the green cap proposition. Investigations prove that this is not the first time propositions of that kind have been made at Armour.

The sophomore class in 1900 published ten rules for the freshmen which really deserve mention in this connection.

"Freshmen of A. I. T. must fully obey the following statutes as set down by their elders, 'The Class of 1900.' (At that time the sophomore class.)

- I. Freshmen must not use Front Entrance.
 - II. Freshmen must not use Main Stairway.
 - III. Freshmen must not use Wash Rooms.
 - IV. Freshmen must not wear Red Neckties.
 - V. Freshmen must not smoke Pipes.
 - VI. Freshmen must not carry canes (twice the fashion).
 - VII. Freshmen must stand when speaking to a Sophomore.
 - VIII. Freshmen must greet Sophomores with reverence.
 - IX. Freshmen must give up seat to Sophomores.
 - X. Freshmen must refrain from making "Goo-Goo Eyes."
- These regulations were printed in hand-bill form and posted and distributed through the school. The caption on this announcement read "Annual Sophomore Announcement. Freshmen Beware!" The punishment to be inflicted in cases of violation was not stated but it is not very difficult to guess as to the methods employed.

Lettermen to Wear Sweaters Thursdays

The Honor A Society held its first meeting of the semester Wednesday, November 2, 1932. During this meeting eleven lettermen were pledged consisting of W. Bucher, M. E. '33; S. Cone, Arch. '35; L. Fraienchi, E. E. '34; A. Kreuzkamp, M. E. '33; A. LaForce, M. E. '34; M. Lukas, P. P. E. '34; S. Lillis, Ch. E. '34; E. McDonough, M. E. '34; G. Mayer, M. E. '34; T. Omiecinski, Ch. E. '34; and F. Paine, Ch. E. '33.

The Honor A Society wishes to announce that Thursday will be letterman day. All those who have received letters are requested to wear them on this day, especially the pledges. Students having sweaters with other letters on them are requested to wear them on other days.

Officers of the society are Carlstrom, president and Rummel, secretary treasurer. Although the semester is rather young, the society is looking forward to a year of activities, among which is the annual Honor A Banquet.

NOTICES

All wrestlers and boxers are invited to come out for practice on Mondays, Tuesdays, and Fridays at 4:30 p. m. in the gym.

Orchestra practice will be held in the Assembly Hall on Tuesday at 5 p. m.

Stresses and Strains will have a meeting at 5 p. m. on Wednesday in the Assembly Hall.

In preparation for Friday at which time the Glee Club will sing, there will be an extra long rehearsal Friday evening beginning at five o'clock. The octet and quartet practice is held every Monday evening at five in the Assembly Hall.

Basketball practice is held every Tuesday, Wednesday and Thursday afternoon at 4:30 in the gym.

General Parker will be the speaker at the Armistice Day assembly at 10:30 Friday morning in the Assembly Hall.

ENGINEERS TO BE DISTRIBUTED ON NEXT THURSDAY

The first issue of the school year of the Armour Engineer will be distributed next Thursday, November 10, 1932. This will be the first issue of the new format, which represents a vast amount of work on the part of the entire staff. New features and a wealth of interesting articles make this an exceptional issue, while the new, more modern make-up places the magazine even farther in the fore of undergraduate technical publications.

Jarl T. Sorensen, Editor-in-chief of the Engineer, announces the following feature articles as being in this first issue:

- "The Trademark as a Commercial Asset," by Charles W. Hills, Jr., an alumnus and trustee of Armour.
- "Science, The Basis of Engineering," by Prof. Charles E. Paul, head of the new Department of Science.
- "Vital Considerations in the Development of Illinois Municipal Water System," by James G. Cooney '18.
- "The Services of Underwriters' Laboratories," by Prof. Joseph B. Finnegan, head of the Department of Fire Protection Engineering.
- "The Technical Student and His Library," by Ellen Steele, Librarian.
- "Developments in the Field of Synthetic Lubrications," by Edmond P. Lomasney, '33.

This issue of the Armour Engineer is being sent to all alumni besides a large number of leading industrialists and engineers of the Chicago Industrial Area. A total of 4500 copies will be printed.

New Men Pledged By Tau Beta Pi

Illinois Beta of Tau Beta Pi announces the pledging of seven seniors and one junior at their smoker, held last Thursday evening at the Theta Xi fraternity house. The following men received this, the highest honor that can be bestowed on an engineering student.

- P. A. Carlstone, M. E. '33.
- N. E. Colburn, C. E. '34.
- E. J. Dufour, M. E. '33.
- W. W. Lange, E. E. '33.
- E. Larsen, P. P. E. '33.
- H. H. Loesche, C. E. '33.
- S. A. Vanderpoorten, P. P. E. '33.
- D. G. Wilson, E. E. '33.

Entertainment at the smoker was furnished by the pledges. Refreshments were also served.

Plans are being formulated for the national convention of Tau Beta Pi to be held in Chicago in 1933.

PI TAU SIGMA SMOKER

Members of Pi Tau Sigma will hold a smoker at the Triangle House on Tuesday night, November 15, at 7:30 o'clock.

Ray Dufour is planning to attend the National Convention to be held on November 18 and 19 at Campaign, Illinois.

GENERAL PARKER TO GIVE ADDRESS TO STUDENT BODY

Observance of Armistice Annual Institution at Armour

ASSEMBLY AT 10:30

General Frank Parker, Brigadier General and commander of the Sixth Corps Area, will deliver an address to all students of Armour in an assembly to be held on Armistice Day, November 11 at 10:30.

General Parker has served his country for many years and his long and varied experience will be subject enough for an interesting address.

He possesses a Distinguished Service Medal, a medal that is given only upon the performance of exceptionally meritorious service. In addition, he is the commander of the French Legion of Honor, commander of the Order of the Crown (Belgium), and the recipient of the French War Cross. He also is a member of the Order of Military Merit of Cuba.

Addresses of Former Years

The Armistice Day assembly is an annual institution, and it is always anticipated with interest, because there has invariably been an interesting speaker presented to the students.

Two years ago Major General Milton J. Foreman, past national commander of the American Legion was the speaker. Last year the Reverend Preston Bradley gave the address. Dr. Bradley denounced war, and the whole tone of his talk was pacifistic.

This year another military man will address the students, and give his version of the subject.

Officers Elected By Musical Club

During the rehearsal last Tuesday, the orchestra spent the first part of the hour in electing officers for the coming year. Carl Clanton automatically became the president according to the constitution, and the other officers elected by the organization are as follows: H. Davidson, vice-president; A. Kulpak, secretary; W. Davies, treasurer; and Roy Johnson, manager. The latter part of the hour was spent in rehearsing for the coming Armistice program.

Quite a bit was done during the rehearsal of the Glee Club last Thursday.

Mr. Erikson spent most of the hour in reorganizing this club. First he had the able singers seated in front while placing the weaker section in the rear. A group of eighteen to twenty men has been organized to sing the verse to the selection, "The Land and the People," with the whole club joining in on the chorus.

Pigeon Searching for Knowledge Startles Physics Lecture Class

A very interesting illustration was brought forth in Professor Wilcox's physics lecture course last Friday morning at approximately ten minutes and forty-five seconds past nine.

Due to the fact that Armour's popularity is never ending we find its fame so widespread that even the fowl which inhabit the vicinity deemed it necessary to send one of their representatives to this tri-weekly session.

Unfortunately the particular representative, a pigeon, could not enter the building by the more commonly used entrance so he was compelled to perch upon the upper portion of a slightly opened window, whereupon some lovesick sophomores took the guest as a lovebird and immediately began to bill and coo with him.

However, at this point, after Professor Wilcox officially welcomed

the guest, the subject of Forces in Equilibrium was earnestly delved into and although the class in general seemed to accept the theory put forth, the guest seemed to be somewhat bored. Finally with utter disgust and as an indication of his complete disagreement with the theory of equilibrium, the visitor announced his dissatisfaction in a very decisive manner, which however may not be mentioned here.

Fully convinced that the matter had gone far enough, Professor Wilcox decided to go upon a hunting expedition, thereby snatching his weapon, a window pole, and enacting the scene of a cavalry man in action. Having been convinced that the entire session was a flop, the visiting representative left, undoubtedly meditating upon the lack of gratitude that prevails at Armour.

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Crying Wolf!

A week ago last Monday some inspired student decided to conduct a private fire drill. In order to do so it was necessary for him to break the glass of the fire siren and pull the lever. But these little tasks were easily despatched and the students soon began to leave Chapin Hall in response to what they thought was a genuine drill. But this stunt of holding a fire drill for the amusement of one student is beyond the realm of understandable practical jokes. It is a simple case of crying, "Wolf!" It might easily lead to a feeling on the part of the student body that the siren was sounded for a prank when there actually was a dangerous fire in progress.

The Chicago Fire Department deals very harshly with those who turn in false alarms for thrills. This act is now a penal offense. But this does not show the reason for the seriousness of the offense. When the fire department answers an alarm, there is always a chance of an automobile accident. Similarly, when a large group of students is marched out of a building there is always the possibility that someone might fall and be hurt by those coming behind on the stairway.

Playing with fire has always been a dangerous thing. Playing with the fire alarm system falls into the same category. The school authorities feel that this was done by some thoughtless student if not by some outsider trying to perform a Halloween prank. But whoever it was we must be careful to see that it is not repeated. We hope that it will not be necessary to install a type of alarm that handcuffs the sender to the box, when it is pulled.

O. T. B.

"The Slipstick"

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

The previous conductor having sold the good old SLIPSTICK down the river we decided to try and rescue the column from the clutches of discard. FACULTY FEATURE FILM ATTRACTIONS, a new addition to the column, appears today for the first time. We hope you like it, and if so, successive chapters of the story will follow. But all good readers remember we are still in the market for contributions and suggestions.

FACULTY FEATURE FILM ATTRACTIONS

If some day the Deans should decide to have a movie concern write our school catalogue, the following result could be expected:

See Professor Wilcox the Star of Natural Phenomena... in Newton's Supreme Romance—

PHYSICS

A great Actor in his Greatest Role
 See Professor Wilcox Make His daring
 Answers to the Mad Howlers
 Of Sopho—See This Epic!

Producer's note: Due to the character of this class only adults will be admitted.
 At Last the perfect Clean!

ECONOMICS

Sharing Professor Wangle
 He Thrilled you in Distributive Justice—
 You wept with him in Public
 Finance—But you'll Adore
 Him in Economics
 Driven to Despair the Hero Throws Aside
 All Rules of Convention
 In a Startling Exposition of Dismalizing
 Returns!

This unfolding heart throbs of the nation had a Nine
 Month Run at
 FURDUE
 See It!

Are you Red-blooded?
 Does Romance Make your Blood Tingle?
 Then Don't Miss Professor Scherger
 in

ANTHROPOLOGY

Learn about the Java Man and His Mate—
 You'll Sit Back Aghast When You See
 Pithecanthropus Erectus Hunted
 To His Last Lair—
 Don't Miss This—The Star of Ethnology
 Rises to New Heights in

ANTHROPOLOGY

Now Playing at A. I. T.

Don't miss the first Chapter of this Startling Drama of Education. Look for Announcement of succeeding Chapters of this Thrilling Drama.

Old Fashioned Girl

This joke reminds us of the gay nineties:
 A fair young maiden fell overboard, and her lover
 leaned over the side of the boat, and as she came up for
 the first time cried, "GIVE ME YOUR HAND!"
 "Please ask father," she answered, as she sank for the
 second time.

Movie Notes

"Grand Hotel" is now playing at the Tivoli and Uptown Theaters.

With a cast composed of Greta Garbo, Jean Crawford, John and Lionel Barrymore, Wallace Beery, Lewis Stone and Jean Hersbell and possessed of a great dramatic story, "Grand Hotel" bids fair to be one of the outstanding pictures in years. Every one of the players is a star in his own right but all gladly consented to play co-starring roles in order to make the picture a success. "Rio Rita," the musical smash that enjoyed such unusual success throughout the country, is on the Tivoli stage next week. All the glamour of the original \$4.00 production are included in this version of Ziegfeld's outstanding success. Popular prices prevail.

After wardrobe experts and costume designers had debated weeks over the most appropriate clothes for Jean Crawford to wear in her latest

starring picture, "Rain," now showing at the United Artists Theater, an outfit for \$17.50 was purchased for her in a Los Angeles department store.

Miss Crawford plays Sadie Thompson, social outcast with her own set of ideals, who engages in an emotional conflict with a fanatical reformer and a love affair with a marine, on the tropical isle of Pago Pago.

A cricket with movie aspirations crashed the gates of Metro-Goldwyn-Mayer studios while Norma Shearer was filming "Smilin' Through" her latest starring vehicle now being shown at the McVickers Theater.

By using the microphone as a "finder," Director Sidney Franklin captured the intruder and held it prisoner until the scenes of that day were finished when it was released, dolefully chirping its disappointment at not breaking in the movies.

Among those in the cast were Frederic March, Leslie Howard, O. P. Heggie, Ralph Forbes and Beryl Mercer.

WEAKLY DUMBBELL POEM

Here lie the bones of Solomon Slipstick
 Slipstick is not here only the Stick
 Slip slipped out and went Home to God
 And now the stick is just a rod.

Prof. Carpenter: What kind of a rock is this?
 Student (half asleep): Oh! I just take it for granite.

FALLING EVE

"Eyesdropping again," said Adam, as his wife fell out of a tree.

FOUND

At last we know which party is the weakest. After Stan Livingstone found that the Students of Armour weren't backing him en masse for the presidential candidacy he swings his support to the Democratic Party. We aren't making any predictions how the election is going to come out, but we know that Stan's block of votes is going to materially strengthen ROOSEVELT.

This is your column dear reader so don't hesitate to send in contribs and remarks.

"The Deacon."

"Smilin' Through" is a film version of the famous stage classic in which Jane Cowl scored one of her greatest Broadway successes.

Ernst Lubitsch's latest masterpiece, "Trouble in Paradise" which is a brilliant comedy, stimulating and hilariously funny, is now filling a week's engagement on the screen of the Chicago theater, with Miriam Hopkins, Herbert Marshall, pny Francis and Charles Ruggles heading the cast.

MR. KENNER PASSES AWAY

Edwin Kenner, P. P. E. '33 was called to his home in Mcoomb, Illinois on Tuesday evening, October 27, because of the illness of his father. Heart attack set in and Mr. Kenner, at the age of 63 passed away Friday morning, October 29. He was a well known dairy dealer, known by practically everyone in southern Illinois.

We extend our deepest sympathy to Mrs. Kenner and family on their great bereavement.



It haunted clerks for generations

"The first of the month" used to be a time of feverish activity for ledger clerks. But the Bell System accounting staff—breaking away from tradition—simplified the keeping of accounts and rendering of monthly statements to customers.

They applied a modern system of relation billing to the telephone business which now spreads this work evenly throughout the month. In cooperation with manufacturers, they devised special typewriters and bookkeeping machines. Thus they did away with inefficient rush and achieved greater accuracy, speed and neatness.

This is but one example of a point of view found throughout the Bell System. Even long accepted routine is constantly studied—it's always worth looking for the more efficient way!

BELL SYSTEM

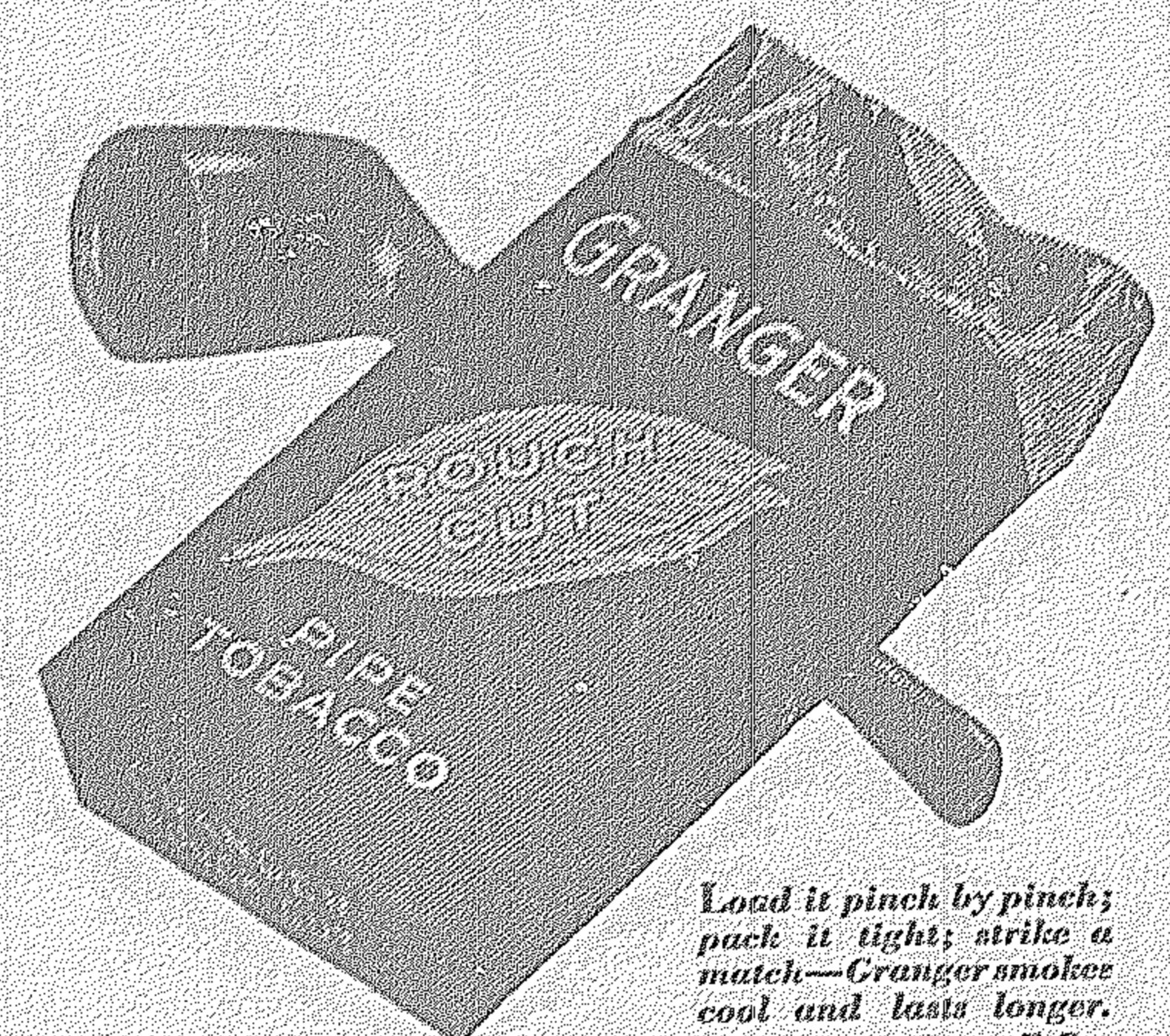


A NATION-WIDE SYSTEM OF INTER-CONNECTING TELEPHONES



"I believe you love that old pipe better than you do me!"

Granger is made solely for pipes.
 Granger is not a cigarette tobacco.
 Granger is made of White Burley tobacco—the best tobacco for pipes. Just try it!



Load it pinch by pinch; pack it tight; strike a match—Granger smoke cool and lasts longer.
 10c

YOU CAN DEPEND ON A LIGGETT & MYERS PRODUCT

SENIOR CHEMICALS MAKE INSPECTION OF STANDARD OIL

Last Monday, October 31, the senior chemical class made an inspection trip to the plant of the Standard Oil Company of Indiana. They saw the various processes used for the distillation of petroleum to get various products such as gasoline, naphtha, light and heavy oil, asphalt, and petroleum carbon.

They went through the pilot plant where the various processes developed in the research laboratories are tested out on a laboratory scale. The scale is then increased slightly during the testing and then finally the process is put into use on the large scale of actual production.

Enormous amounts of high pressure steam are used by the plant since all the distillation processes are carried out utilizing the heat furnished by the steam. The equipment supplying this steam is very flexible and can be run by burning powdered coal, gas, or oil.

Stills of almost every description are used to distill the petroleum. Due to the fact that not enough gasoline can be obtained from the original products, it is necessary to "crack" some of the heavier portions. This cracking process is done under pressure and the resulting products are taken out and redistilled several times to get the desired composition. Thus a great variety of products result.

Next Monday Dr. Scherger will present to his senior class in Great Leaders an illustrated lecture at 11:30 on "The British Isles." These pictures taken by Dr. Scherger will show the most interesting and picturesque scenes as well as the many historic places throughout England. This trip to the British Isles was his twelfth trip abroad.

All students having an open period on that hour are welcome to attend this lecture.

November 1st Dr. Scherger addressed the Kiwanis Club of Englewood. "Hitler, the German Fire-Brand" was the subject of his discourse. Quoting from the announcement issued by the club, relative to this lecture: "Dr. Scherger is a lecturer well worth going miles to hear. He is known throughout the country as an authority on international affairs."

Scherger to Deliver Illustrated Lecture

Mr. W. S. Monroe visited the Institute last Tuesday and was shown around by Dean Penn. Mr. Monroe is a member of the Board of Trustees.

Last Friday, D. I. Cooke, Ex. '33, visited the school.

Contributions to the STEAM SHOVEL may be made by placing articles in the News box in the main building. All contributions must be signed. Real names preferred.

Perhaps, if the bells were rung a slightly longer time, the students could use the slight gap of silence to inform them of the end and beginning of periods.

The class in organic chemistry will hereafter be held abstinence from alcohol if Professor Wood's lectures on the subject make the desired impression.

One of our prominent seniors inquired of the librarian if Kirchhoff's laws could be used as a business law reference.

wagon or cart in the French. The story goes, that in the Beaux Art School of Paris, the problems are delivered to the jury from the divergent ateliers in the small carts. Therefore this hustle-bustle has been handed down to us and called the above during the last hours of the project.

If any one has wondered how high above the Blvd. Mich. the Armour class rooms are, we will put that mind at rest now. The Bulletin boards are exactly 104 risers above sidewalk level, (count them if you don't believe it).

MONROE VISITS SCHOOL

Mr. W. S. Monroe visited the Institute last Tuesday and was shown around by Dean Penn. Mr. Monroe is a member of the Board of Trustees.

Last Friday, D. I. Cooke, Ex. '33, visited the school.

ARX NEWS

HELLO! We're back again after a week's vacation from the press. This past week has produced a great deal of exhibition about the Institute. With the opening of the Annual Fall show at the Art Institute, our own summer work displayed and last but not least the Senior Synagogue Projects . . . and what an exhibit that was.

Sandstedt and Terp took the medals.

The post-judgment criticism was delivered by Mr. Alfred Alstuler, the renowned architect. His critique was a most interesting and enlightening one.

More about the summer show hanging on the Armour walls. Some excellent water colors by W. Thurman Vaughn, Leroy Skubic, Spencer B. Cone, and Hanns Nelson. T. Dale Lockett brought back some impressions of "Ole Kentucky" in water colors and in pencil. Robert Cheatham tried his hand at some oils . . . the results proving most gratifying as exhibited.

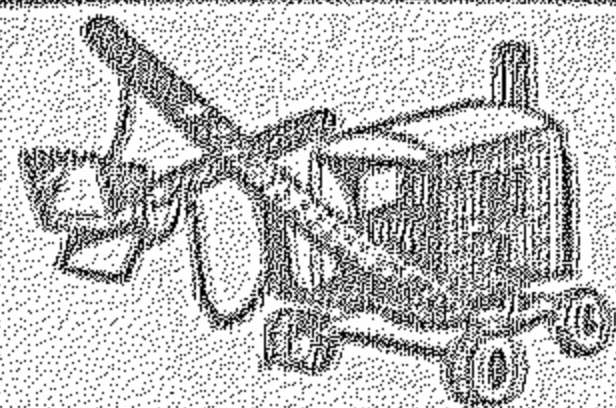
Among the post-graduate men in the school we have Clarence Troost who is from Notre Dame. Another South Bender is Day Feinberg of the Sophomore Class, who is very handy with the charcoal in Prof. Krehbiels class.

The word charette is spelled C-H-A-R-R-E-T-T-E and means a

New Books

- Alexander, Grand Duke of Russia
Once a Grand Duke
- Bagenal & Wood
Planning for good acoustics
- Duncan & Drew
Radio telegraphy and telephony
- B. F. Fletcher
History of Architecture
- Hughes & DuBridge
Photoelectric phenomena
- Richmond & Littlejohns
Technique of water color painting
- R. W. Sexton
American public buildings of today
- Van Brunt & Rice
Rewinding data for d.c. armatures
- A. J. Wallis-Taylor
Industrial refrigeration
- C. E. Young
Structural problems in steel and timber

THE STEAM SHOVEL



At last the nickname of the New's business manager has been discarded. Louisa, of the Albee Restaurant, calls RAY NELSON "Thimble."

When bigger and better diesel engines are made, DANNY ROUSSEL will make them. He described one of these machines by saying that if whopping crum were used for fuel, cottage cheese would come out of the exhaust pipe.

ROY H. WITTKINDT evidently makes it a habit to permit the elevated train until he himself is Normal so as to his taking, for sometimes he forgets to get off at 33rd making him late for his 8:30 physics class.

Blue Monday certainly is living up to its name. For the last seven consecutive Mondays, we have had rain.

EDWARD O. MEACHAM says that at nights he's too tired to crawl up onto his bed, so he sleeps under it instead.

The Chicago Daily News announced last week that there would be blues singers in with the Armour broadcast. We wonder if they will sing before, after, or with the professors.

On a recent narrow inspection trip to the Standard Oil Company of Indiana, AL EDELMAN was positive that he knew the way. They terminated at the Standard Oil Company, four miles from their destination.

Contributions to the STEAM SHOVEL may be made by placing articles in the News box in the main building. All contributions must be signed. Real names preferred.

Perhaps, if the bells were rung a slightly longer time, the students could use the slight gap of silence to inform them of the end and beginning of periods.

The class in organic chemistry will hereafter be held abstinence from alcohol if Professor Wood's lectures on the subject make the desired impression.

One of our prominent seniors inquired of the librarian if Kirchhoff's laws could be used as a business law reference.

wagon or cart in the French. The story goes, that in the Beaux Art School of Paris, the problems are delivered to the jury from the divergent ateliers in the small carts. Therefore this hustle-bustle has been handed down to us and called the above during the last hours of the project.

If any one has wondered how high above the Blvd. Mich. the Armour class rooms are, we will put that mind at rest now. The Bulletin boards are exactly 104 risers above sidewalk level, (count them if you don't believe it).

Electrical Head Gives Two Talks

(Continued from page 1)

such famous scientists as Ampere, Ohm, Faraday, and Davy.

His talk Sunday evening concerned "the more recent progress in things electrical." In illustrating this progress he took first as an example the central station electrical light and power industry. He said, "The first central station was started just fifty years ago. At the end of twenty-four years this industry had grown to about four million horsepower of installed capacity representing an investment of over one and one-third billions of dollars. Remarkable as this development was, compare it with the last twenty-five years. We now have forty million horse-power in central stations and an investment of over eleven billions of dollars."

Besides discussing the central station industry, he also sketched the rapid growth of the electric lighting industry, the electric transportation industry and the electric communication industries such as the telegraph, telephone, and radio.

During the past week, Professor Harry McCormack, head of the Chemical Engineering department was the speaker on this hour over WJLD. A resume of his two lectures will be given in the next issue of the News.

Fraternity Notes

PHI KAPPA SIGMA
Quite a few of the Phi Kaps from Purdue, who were in Chicago for the Chicago-Purdue game, stayed at the house over the week end. Claude Crose, an alumnus from Purdue, who is living at the house, had an enjoyable reunion with some former classmates.

We all went down to the dance at the University of Chicago Chapter house Saturday night. It was a good dance and we all had a good time.

TRIANGLE
Brother Fetterman, '31, and Brother Lind, '32, are now residing at the house. Fetterman is back again after spending the last year between New York City and Omaha, Nebraska.

The monthly Alumni Board meeting was held at the house last Monday evening.

Our Annual Alumni Reunion will be at the chapter house, Nov. 12. Dinner will be served at 6 o'clock and a record attendance is anticipated.

DELTA TAU DELTA
The first meeting of the Mothers' Club of Gamma Delta will be held on Sunday, November 13. This ten marks the opening of the Mothers' Club for this year and we are looking forward to one of its most successful seasons.

THETA XI
A large crowd attended the Annual Halloween Party which took place at the chapter house last chapter house last Saturday evening. Many from the Purdue and Northwestern chapters as well as alumni attended. A very enjoyable time was had by all who attended judging from the comments received. The house was decorated, as befits the occasion, with pumpkins and corn-stalks.

SIGMA KAPPA DELTA
At the Halloween party held at the house last Saturday night, a large number of alumni were present and a good time was had by all. The house ping-pong tournament has reached the quarter finals. G. M. Rod and B. Larson seem to be the only possible contenders to reach this stage of the game successfully.

RHO DELTA RHO
Rho Delta Rho takes pleasure in announcing the pledging of Milton Cohn, Arch., '35.

Plans for our first dance have been completed and it will be held at the Chapter house this Saturday evening. This party is given in honor of the pledges and will open up social activities for the year.

KAPPA DELTA EPSILON
The Annual Halloween Party was held Saturday, October 29. The affair was unusually well attended and a pleasant evening was enjoyed by everyone.
Next Saturday, Nov. 12, a bridge

FIVE SOPHOMORES CHOSEN TO HELP SOCIAL CHAIRMAN

John J. Ahern, social chairman of the sophomore class, announced the following men as members of the committee: Wm. B. Ahern, E. E.; R. J. Albano, E. E.; E. R. Penske, Arch.; G. W. Wheaton, F. P. E.; R. H. Wittkindt, Ch. E.

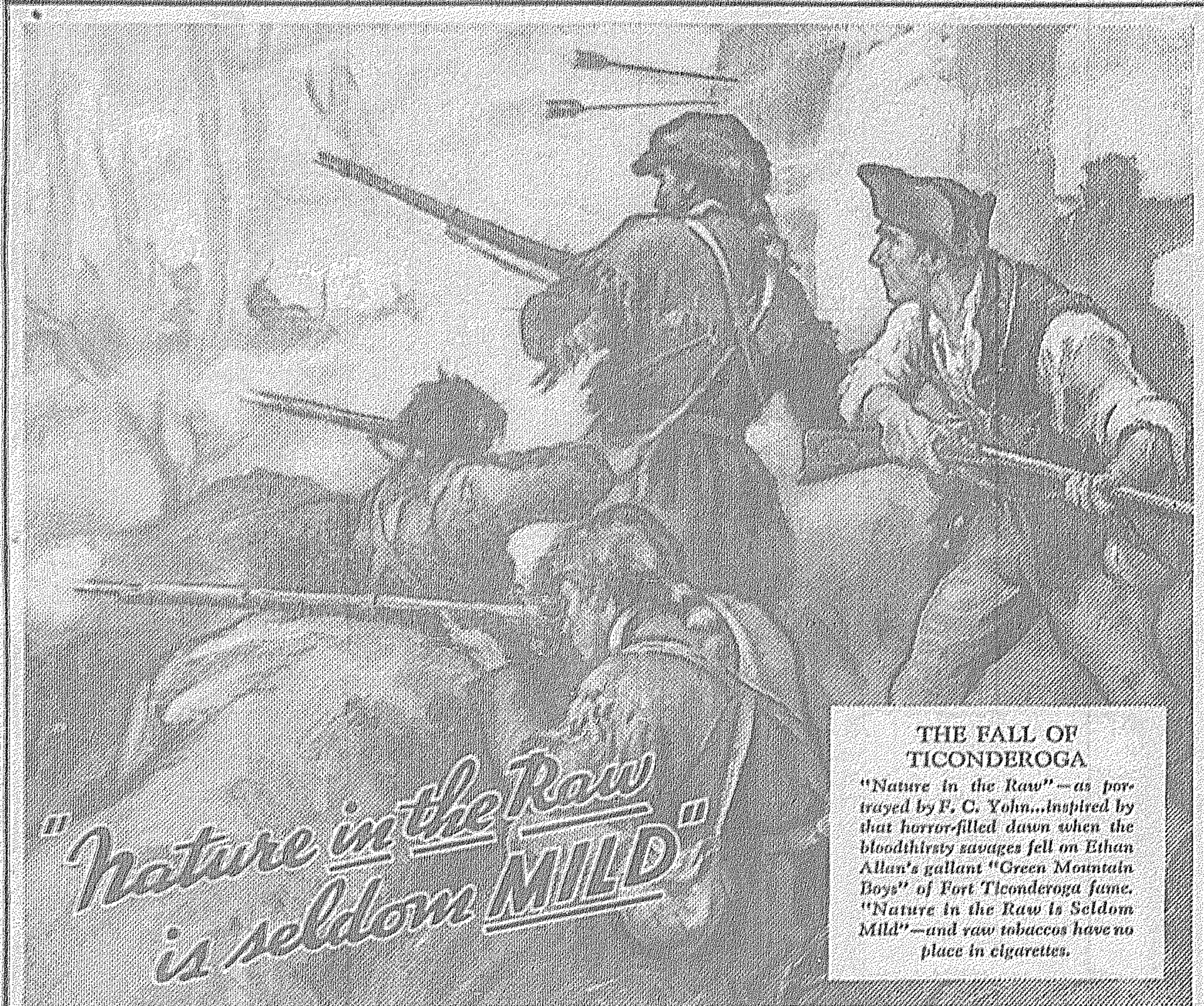
There will be a meeting of the social committee in the near future to determine just what will be done to make the year the greatest social success which any sophomore class has ever enjoyed.

The combination again this year of the sophomore and freshman dances will come in for consideration. Last year the combination resulted in a very successful affair, financially as well as socially. The probability is therefore that the procedure will be followed again this year.

party will be held. The arrangements are being taken care of by Brother Mill Hoffman and he promises us a few surprises.

William Holland, Ch. E. '34, is working for his M. A. at Armour on a scholarship.

Edmund Field, Ch. E. '34, is doing post-graduate work on a fellowship at Northwestern University. He recently won the second prize in a contest sponsored by the American Institute of Chemical Engineers for general excellence in chemical engineering.



THE FALL OF TICONDEROGA
"Nature in the Raw"—as portrayed by F. C. Yohn—inspired by that bloodthirsty savages fell on Ethan Allan's gallant "Green Mountain Boys" of Fort Ticonderoga fame. "Nature in the Raw is Seldom Mild"—and raw tobaccos have no place in cigarettes.

No raw tobaccos in Luckies —that's why they're so mild



WE buy the finest, the very finest tobaccos in all the world—but that does not explain why folks everywhere regard Lucky Strike as the mildest cigarette. The fact is, we never overlook the truth that "Nature in the Raw is Seldom Mild"—so these fine tobaccos, after proper aging and mellowing, are then given the benefit of that Lucky Strike purifying process, described by the words—"It's toasted". That's why folks in every city, town and hamlet say that Luckies are such mild cigarettes.

"It's toasted"
That package of mild Luckies

Cont. 1932 The American Tobacco Co.

TRACK CANDIDATES HOLD MEETING TO BEGIN THE SEASON

Plan to Hold Interclass Meet on Saturday December 10

FIFTY MEN ATTEND

At the first seasonal meeting of the Armour Tech track team, fifty candidates showed up to plan the year's work. Coach Lonnie Stagg Jr. was delayed and did not arrive until after the meeting, but Captain Elmer Sademan gave the men a good deal of valuable information as to the necessity of early practice and continual training.

Equipment Given Out

The first business conducted was the distribution of the equipment. All the men of last year's squad were given full suits and the majority of the new men received some equipment. Whether more equipment will be obtained is doubtful as the full squad of fifty men is not expected to be retained throughout the entire season. Therefore, when a man drops training for any reason during the season, he is expected to return his equipment immediately so that a man who has the time for practice and has no equipment can have it.

Plan New System

A system is being planned wherein the track men will check in every time they practice during the week. Those who do not have the time to spend a minimum number of hours per week in practice, will be asked to turn in their equipment immediately. This system should prove to be effective as it will increase the amount of practice each man gets, and will also provide a fair distribution of the equipment.

As in previous years, practice will be confined to the track in Bartlett Gym until the football season comes to an end. From then on, the men will train on the new U. of C. field-house track and most of the home indoor meets will be held on that track. Armour men can come to Bartlett Gym any day at any hour to practice and in the near future, lockers in Bartlett Gym will be assigned for their use.

Schedule Nearly Complete

Although the track team has always had a good schedule in the past years, the coming season's list of opposing teams indicates that an even better year of competition is on hand. The schedule will be printed as soon as it has been officially completed. Directly after the meeting last Friday, it was arranged to have the interclass track meet sooner than it has been run off in the past, and consequently that meet is to take place on Saturday, December 10, so that the new material can be judged some time before the regularly scheduled meets begin. Candidates should therefore prepare for the interclass meet by beginning practice now.

To get the freshmen who are out for track, together, a meeting was arranged for Monday. The reason was to get them organized for the interclass meet, and so give them a better chance to win the meet. In previous years, good material has always been found in the freshmen class.

FORTY CANDIDATES RESPOND TO FIRST BASKETBALL CALL

Forty basketball candidates answered the initial call made by Coach W. C. Kraft and attended the first meeting of the 1932-33 season held last Thursday at 5:00 in the school gym.

During the meeting Coach Kraft explained the fundamentals of the game, the details of future proceedings and the method of conducting the practice sessions. It was decided that basketball practice would be held up in the Tech gym this week starting this afternoon and continuing until Thursday. After that, a picked squad of about twenty-five men will report at the Eighth Regiment Armory, at 36th and Giles avenue, the home floor for the Armour team, where a regulation floor is available to produce the future Tech variety.

Intensive practice will begin immediately after the warm-up practice sessions in the Tech gym. Coach Kraft was very much pleased with the fine turn-out in which there is very promising material. The return of three veterans, Captain Baumstaber, Ilg, and Hummel will form the nucleus of the team. Any candidate has a chance to make the team, ability proven, regardless of the fact that those of the men are better winners.

Of the twelve games scheduled to date, six of these games will be played at the Armory. This will give the Armour students plenty of chances to root and see the team in action.

As it can be seen from the schedule, the squad will have a tough schedule to face this coming season and will need a lot of diligent practice and the support of the school to make the season a great success.

Since the list of opposing teams is similar to those of preceding years, the Tech men will be out to defeat teams they have lost to in previous games.

Boxers, Matmen Train for Meet

In spite of numerous interruptions by the basketball tournament, the boxing and wrestling squads have been rounding out in fine shape. Both squads are in the final stages of development in preparation for the annual tournament which begins next month. The preliminary bouts are scheduled to start on December 2.

The tournament this year will be open to any and all students who have not as yet won boxing letters. Men who intend entering the tournament are instructed to enroll immediately, with Captain Leo McDonald '34, for putting off with a boxing partner, or with Captain Frank Talbot '35, for putting off in the wrestling tournament.

Along with the honor which goes to the winner in each division there will be given a valuable medal.

There are a number of men who intend entering the tournament but have not been working out in the gym as yet. These men are advised to start getting into shape at once. At all events enroll your name with the head of the division you are in at once.

TECH SHORTS

Basketballers Begin Practice

The basketball season got under way last Thursday with a meeting of the candidates in the gym. This week practice will be held tonight, Wednesday, and Thursday in the gym, and then practice sessions will be switched to the 8th Regiment Armory. George Baumstaber is the captain for the coming season.

A miniature wrestling meet was held in the News office when Fleisner and Hanson rolled and bumped around while grappling with each other. Hanson, mainly because of a 20 lb. advantage, won the decision.

George Nelson, one of Tech's star trackmen, has proved that history repeats itself. In other words, he again broke his collar bone. The accident occurred while he was participating in a game of touch football in Ogden Field. This will put him out of practice for six weeks or so.

The trackmen had a meeting last Friday, at which Captain Sademan addressed the prospective members of the team about their training. Manager Britman distributed all the available equipment.

The long tennis tournament is approaching its end. Fishman, by defeating Peabody 6-0, 6-2, is in the finals, and Ellis and Lammers will meet to determine who will engage Fishman in the championship match.

H. P. R.

IT'S AN OLD, OLD STORY WITH MR. GEORGE A. NELSON

Although less than a year has passed since the last occurrence, George Nelson has "gone and done it again—bust his collar bone"—the fourth time in his short span of life. This third repetition of history happened last Thursday afternoon in a game of touch football in the Ogden "Bowl." As usual, after the accident in which his sensitive member was fractured was over, George picked himself and his arm up, and walked over to the doctor.

Coach Kraft Sets Bone

As the doctor was not present, Coach Kraft, following the former's directions over the phone and also those of the much-experienced patient, trussed up the injured limb and George was carted home in a black wagon. It wasn't the "Black Maria," but only a fellow student's car. In case that some of Armour's newcomers do not know who Mr. Nelson is, it might be well to state that he is or was one of the mainstays of the Tech track team.

George Asks for Suggestions

Evidently Mr. Nelson gets a kick out of worrying people—Coach Stagg, Captain Sademan, members of the track team, and we can't forget Mrs. Nelson, his mother. However, he had more consideration this time than previously, as his injury will probably heal before the track season actually starts. Last time, the track team was without his services for some time in the middle of the season. This is no doubt the main reason why George got ahead of himself this year, and from now on,

Golf, Tennis Matches Progress to Finals

The fall tennis tournament has progressed to the finals and if there is any fair weather left before winter the tournament may be finished for the first time in several years.

The men who reached the semi-finals are Esbensen who beat Gundersen 6-2, 6-3; Feinberg who won by default from Trudello; Ellis who defeated Riess 6-4, 5-7, 6-1; and Lammers who won from Hillman 6-1, 6-1. Esbensen defeated Feinberg in the semi-finals 6-2, 6-3 and will meet the winner of the Ellis-Lammers match for the championship.

The golf tournament is also progressing. The finals are to be played between Richards and the winner of the Ahern-Fogle match that was played yesterday. The winner of the championship will win a gold medal award.

the Nelson bone-busting should be more nearly a perennial feat. He has offered to receive suggestions from Tech men on what to do with the defective collar bone. However, it would be advisable for his friends to be well protected or else to be a good distance away when presenting the suggestions, as Nelson still has two legs and one arm in good shape.

GRIDIRON QUERIES

By Professor John J. Schommer

Question 14. How much time is allowed the quarter-back to call signals?

Answer. Fifteen seconds in the huddle and fifteen seconds more to play.

Question 15. What is the penalty for a water-boy talking to the players on the field during a time out?

Answer. It depends on what is said. If conversation can be construed as coaching or the giving of information, there is a penalty of fifteen yards from spot of down on the team receiving the coaching.

Question 16. A team which is on the offense attempts to drop kick a goal from the field, and the ball does not go over the goal line, how is the ball played?

Answer. It is played in the same manner as a punt.

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