



TEN HONOR SENIORS SELECTED

Announce Scholarship Standings

STATISTICS SHOW RANKING OF DIFFERENT DEPARTMENTS, CLASSES AND FRATERNITIES

Fire Protects Lead Departments; Seniors Have Highest Class Average

AUERBACH, C.E. '30, CONTINUES STRAIGHT A

The following statistics, compiled by the Office of the Deans, give the scholastic standing of the members of the Freshman, Sophomore, Junior, and Senior Classes of the College of Engineering and Architecture, who were in attendance during the first semester of the school year, 1929-30. In this computation the grades in Physical Training were omitted. A credit, either for work at the Armour Institute of Technology or for work elsewhere, was considered equivalent to a grade of "C."

The average of the entire school body, a total of 832 students, is 84.23%.

The average of the various classes are as follows:

The Senior Class 87.3%
 The Junior Class 86.6%
 The Sophomore Class ... 83.3%
 The Freshman Class 80.9%
 The student with the highest average in the Senior Class is Marvin A. Tennyson. His average is 95.0%.

The student with the highest average in the Junior Class is Alvin B. Auerbach. His average is 97.5%.

The student with the highest average in the Sophomore Class is Jack Cavanagh. His average is 96.2%.

The student with the highest average in the Freshman Class is James W. Juvinal. His average is 97.0%.

DEPARTMENTS

Fire Protection Engineering 85.90%
 Chemical Engineering 85.03%
 Mechanical Engineering 84.97%
 Electrical Engineering . 84.10%
 Civil Engineering 83.50%
 Architectural 82.60%

THE HONORARY FRATERNITIES (Scholastic)

Pi Tau Sigma 92.83%
 Tau Beta Pi 92.77%
 Salamander 92.2 %
 Phi Lambda Upsilon 92.1 %
 Eta Kappa Nu 91.4 %
 Chi Epsilon 90.9 %

HONORARY FRATERNITY (Non-Scholastic)

Pi Nu Epsilon 88.3 %

HONOR SOCIETY

Sphinx 89.4 %

PROFESSIONAL FRATERNITY

Scarab 89.6 %
 Flask & Beaker 88.4 %

SOCIAL FRATERNITIES

Beta Psi 86.83%
 Sigma Kappa Delta 86.80%
 Sigma Alpha Mu 86.3 %
 Kappa Delta Tau 85.9 %
 Triangle 85.8 %
 Delta Tau Delta 84.4 %
 Rho Delta Rho 84.3 %
 Phi Kappa Sigma 83.9 %
 Theta Xi 81.7 %
 Phi Pi Phi 81.3 %

The average of all students belonging to the Phi Kappa Sigma, Delta Tau Delta, Theta Xi, Sigma Kappa Delta, Phi Pi Phi, Triangle, and Beta Psi fraternities, (fraternities that rent or own their own chapter houses) is 84.29%.

The average of all other students is 84.21%.

In the above the following numerical values were given to the letter grades:

A—97.5%; B—90.0%; C—80.0%; D—67.5%; E—50.0%; Cr.—80.0%.

Senior Jewelry Now on Campus

The senior jewelry has arrived and the members of the senior class may receive their rings and keys from those with whom they placed their orders. Any money that is due on the jewelry must be paid at the time of delivery. There was some unforeseen difficulty in getting the keys delivered on time. Through some unavoidable delays in obtaining the necessary stones, the jewelers were unable to make up the keys at the same time the rings were manufactured. It is expected that those members of the class who have not already ordered their jewelry will order it now when they see the other seniors wearing the class insignia.

The last group of orders for jewelry has been sent to the jewelers. At the present time one hundred and ten men have ordered one hundred twenty-five pieces of jewelry. For those who have not ordered their jewelry, Vernon A. Sturm will receive their orders.

Electricals Hear Student Talks

The idea of having student talks at regular meetings was tried out at the A. I. E. E. meeting held last Thursday, April 3 in Science Hall at 1:00 P. M. C. E. Rudelius, '30, was the first student to speak and his topic was "Street Lighting of Hammond, Ind." Rudelius has been employed by the Hammond Utility Co. and has gained considerable knowledge concerning lighting systems. He accordingly proceeded to tell of how the problem of lighting the streets on series circuits was carried out, and the various other phases of the work.

The replacing of electric bulbs on the basis of the average life and the maintenance of a lighting system were other interesting features of Rudelius' talk.

H. E. Steir, '30, was the next to give a talk. He spoke of electricity in ballistics. Where it plays an important part, for it is by its action that the velocity of a projectile or bullet may be calculated. The government is interested in ballistics because the knowledge derived from it often is advantageous in military operations.

Tomorrow will be the last day that orders will be taken from the seniors for graduation announcements. Originally the deadline had been set for last Friday, but the time has been extended and orders can be placed from 11:30 a. m. to 1:00 p. m. in the south end of the corridor on the main floor. The announcements, samples of which are on display in the case on the main floor will be ready for distribution about the last week in May.

PHI KAPPA SIGMA FEATURES ANNUAL FACULTY BANQUET

The annual Phi Kappa Sigma faculty banquet was held Wednesday night, April 2, at the Phi Kappa Sigma fraternity house. An excellent dinner coupled with speeches, laughs, songs and cards made the evening a success. This was the first banquet to be held in the new home of Phi Kappa Sigma, and the sixty faculty members were thoroughly pleased with the location for their banquet.

John W. Hurley '30 C. E., president of Phi Kappa Sigma, introduced Professor Schommer faculty member of the fraternity, who acted as toastmaster for the remainder of the evening. Professor Schommer called on President Raymond, Deans Penn and Palmer and Mr. Allison, each of whom responded with a short talk. Professor Amsbury provided some humor and laughs with his readings and stories.

Professors Bibb and Teach, the newer members of the faculty, spoke for a few minutes at the request of Professor Schommer.

After the banquet songs were sung and the faculty indulged in card playing. The evening entertainment, which began at 7 o'clock was concluded at a late hour.

Illustrated Talk on Brickwork at W. S. E.

The district manager of the National Common Brick Association gave a lecture to the Armour branch of the Western Society of Engineers, Wednesday, April 2, on the subject of "Brickwork."

The lecture was accompanied by slides showing forms of brickwork and construction. An outline of the history of the use of brick in construction from its earliest days showed the many styles and methods of use. Modern methods of brick and wall testing were explained. As well as measures adopted by the Bureau of Standards to insure proper construction of brickwork.

Hold A.I.Ch.E. Smoker at Phi Pi Phi House

The Armour branch of the A. I. Ch. E. will hold a smoker tomorrow night, Wednesday, April 9, at the Phi Pi Phi house at 3131 S. Michigan Ave. All the men of the Chemical Engineering Department as well as the faculty have been invited and several alumni are expected to attend. There will be entertainment of such a nature as to highly amuse all present. There will also be cards and other forms of amusements to say nothing of the large supply of smokes and eats.

Raymond, Palmer to Attend Inauguration

Dr. Raymond and Dean Palmer will attend the inauguration of William E. Wickenden as president of Case School of Applied Science at Cleveland, Ohio, next Friday. This will be held in conjunction with the Semi-Centennial of the Case school.

On Saturday, April 12, a conference will be held of the Endowed Engineering and Industrial Colleges.

Dr. Raymond and President William E. Wickenden are very close friends.

Two Honoraries Name Pledges

Phi Lambda Upsilon, honorary chemical engineering fraternity, pledged I. G. Katz, '30, and M. Yzaguirre, '31, at a smoker held Tuesday evening, March 25. G. L. Parkhurst, '27, an alumnus of the organization, assisted in the pledging ceremonies.

Pi Tau Sigma, honorary mechanical engineering fraternity, pledged R. H. Stevenson, '31, and R. M. Krause, '31, at a smoker held at the Triangle house on Thursday, April 3. Professors Libby and Roesch attended the smoker.

DR. LEE DE FOREST WRITES A LETTER OF APPRECIATION

Thanks Dr. Raymond; Hopes His Lecture Will Inspire Men

ENJOYED VISIT HERE

President Raymond last Friday received the following letter from Dr. Lee de Forest who spoke at a recent assembly on some of his personal experiences.

Dear Dr. Raymond:—

I much appreciate your kind note of March 31st and I can only assure you again that I doubt if anyone in the audience enjoyed the occasion more than I. It was to me both a pleasure and inspiration to get back again to the birth-place of my wireless experimental work and to recall the difficulties, struggles and privations which later resulted in so much achievement for the general betterment of mankind.

If my remarks served as encouragement or inspiration to any of your students who may be situated in somewhat similar circumstances to my own when I was of their age I shall indeed feel satisfied.

With kindest regards and all best wishes to Armour Institute, its devoted faculty and students, I am Very sincerely
 Lee de Forest

Fire Protection Talk Feature of Meeting

The manager of the Fire Prevention Department of the Western Actuarial Bureau, Mr. R. E. Vernor, was the speaker at the F. P. E. S. meeting held on Wednesday, April 2 at 9:30 in Science Hall.

Mr. Vernor spoke on various phases of Fire Prevention. He explained the causes of fires, fire-traps, and the far reaching effect of fires. For an example he suggested that if a manufacturing plant burns down, the men are out of work, they spend less, they have less and also the manufacturing concern loses business, causing customers to go elsewhere, leading to a general let down that affects the whole community. It was in this expository manner that Mr. Vernor presented his subject.

About the most effective portion of the talk was the moral to be drawn from the story of the "Clown Fireman." Mr. Smoky Baker, who discouraged with his work, was inspired and encouraged to continue when he learned that all his novel methods had saved one human life.

A.T.A.A. BOARD OF CONTROL CONSIDERS SCHOLARSHIP AND PARTICIPATION IN ACTIVITIES

W. K. Simpson, Ch. E., Star Athlete, Heads List of Men Honored by Awards

WINNERS GET NUMBERED CYCLES

Frosh Dance to Be Held April 25

On Friday night, April 25th, the Freshman Class will hold its annual dance. The social chairman, of the Freshman Class, Robert Belford has been working diligently on the plans, with the cooperation of his committee. They have been very scrupulous in their consideration of the appropriate place to hold such an event, and they assure the class that they will obtain the best possible.

The bids will be out this week and may be obtained from the social chairman or from the following men who are on the social committee:

- Walter Nordell
- Thomas Luckett
- Harold Bodinson
- Donald Chadwick

Local Fraternity to Submit Petition

Flask and Beaker, professional chemical engineering fraternity, has received permission from the national president of Alpha Chi Sigma to submit a petition for a chapter of this fraternity at Armour.

Alpha Chi Sigma, a national professional chemical fraternity, has forty collegiate chapters in various colleges throughout the country, according to the 1927 Edition of Baird's Fraternity Manual. In addition, there are 13 professional chapters whose members are professional chemists and chemical engineers who previously were elected to the collegiate chapters.

A.S.M.E. to Celebrate Founding of Society

The Armour branch of the A. S. M. E., held a meeting, Thursday, April 3. Professor Daniel Roesch spoke about the celebration of the fiftieth anniversary of the founding of the society, to be held April 8. This celebration is to be a national affair, local sections and student groups taking active part.

Two students also presented talks; M. Vander Velde spoke on "Elevators," giving details of construction and safety measures. T. O'Malley followed with a discussion on "Gas Engines."

Lost Articles in Dean's Office

The following articles are still in the Lost and Found at the Deans' Office.

- One black and gold coat with '30 numerals.
- One pair of white-flannels from orchestra or glee club.
- Mark's Airplane Engines—D. D. Garen.
- Slide Rule—F. A. Schoneman.
- Several notebooks.

The ten honor seniors for 1930 have been chosen by the Board of Control of the Armour Tech Athletic Association, and will receive as awards specially engraved copies of the Cycle. The men who receive the honor for this year are the following, in the order as decided upon by the board:

1. W. K. Simpson
2. E. R. Rowley
3. D. T. Smith
4. N. D. Buehling
5. W. R. Trognitz
6. W. P. Edstrand
7. D. Paul
8. P. E. Heath
9. H. W. Faulstich
10. P. E. Boynton.

The Cycles to be given to these men will have engraved on their covers the name of the recipient, his numerical ranking among the ten, and the inscription, "Honor Edition Award."

The board of control of the A. T. A. A., the body that elected the honor seniors, is composed of Dean Palmer, Dean Penn, Professors Huntley, Leigh and Schommer, Mr. Allison, Coach Kraft, and five student representatives elected by the association.

In electing the honor men, the names of the twenty men in the class whose extra curriculum activity records are highest are given to the board of control. The twenty men are then judged on both activity record and scholarship. The ten honor seniors are chosen by the results of this balloting.

Freshman Class Hold Business Meeting

The freshman class held a short business meeting on Wednesday, April 3, in Science Hall. The meeting was opened by Roy W. Carlstrum, the class president, and Walter Schirmer, one of the Junior Marshals, was introduced. Schirmer proceeded to explain the meaning of the term "class rush" with all its trials and tribulations. Schirmer also advised the freshmen as to methods of attack and wearing apparel to be used on the big day, Saturday, May 17.

Robert Belford, chairman of the social committee, then rendered his report on the activities of the committee. Belford is reported to be very enthusiastic over the coming Freshman Dance and expects a very large attendance.

The class then proceeded to elect a Sergeant-at-Arms, with the following results:

- Nominees
- LeRoy Anderson 13
 - Jarl Taft Sorenson 24
 - Spencer Cone 24
 - Wurth Gustavson Majority
- Mr. Gustavson was then duly enrolled as the Sergeant-at-Arms of the class of '33.

Dean Palmer represented Armour at a meeting of the Education Club last night at the Chicago Women's Club. The speakers were Dr. C. H. Judd of the University of Chicago, Dr. C. J. Lunok, Mr. P. Semon, and Dr. L. B. Sharp. The purpose of the club is to study the educational problems connected with the Chicago schools.

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E. H. Chun, '32 H. Pilgrim, '31

Exchanges

J. P. O'Hara, '33
A. J. Aukstaitis, '31

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HONOR CYCLES

The most prominent portion of the front page of this issue is devoted to the honor Cycle award; while some may fully appreciate just what these awards mean, we feel certain that there are some to whom the significance is lost.

The honor Cycles are awarded upon a basis of activities in which the men are active during their four years at Armour. The points awarded for each activity vary, the degree of responsibility and amount of work necessitated governing the amount. This means that the men receiving the honor are truly the leaders in the school.

In a college with as high a standard as Armour, and with the terrific drains that the various curricula make upon a man's available time, it is significant to note that the men have time and are willing to devote this time to the pursuit of the extra-curricula activities. When one stops to realize that most of the sports demand hours of training and practice, most of which begins late in the afternoon and lasts until the early evening hours, it is clearly seen that these men have made a real sacrifice to participate in the affairs of the school. Similarly, the men engaged in all other forms of activities, whether it is on the publications or as officials of the organizations, are devoting much of their time to work in which there is little glory and much labor.

We feel that at Armour the large group of students who are active in all the various phases of endeavor is a definite asset to the school. Reference to almost any magazine will disclose the fact that the various athletes are released from the more rigorous duties as a student; they are in the school as pure athletes and not as men desiring an earnest education. It is likewise known that in many universities the men active on the various publications receive monetary reward for their work. It is therefore a most noteworthy achievement for Armour to point to its men and show that they are actuated solely by the desire to brighten the glory of their college; there is no glittering award to lure them onward.

It is to be hoped that the men throughout the school will recognize the fact that these ten men are the pick of the class, they have given their best to Armour, and are receiving nothing but the honor due them. To them, we extend our heartiest congratulations and best wishes for the future; with the record that they are leaving behind them, they should go far in the outside world.

A. B. A.

"The Slipstick"

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

A BASE STORY

They poured acid on his clothes,
They threw it in his face,
But he neutralized it to a salt,
The villain was so base.

Ein Stein

The snow balled things up considerable last week, so to speak.

Contribution—This is of interest mainly to those who run the Slipstick by their contributions. Oftentimes some lad will give us some material, which he might not see in print, but don't be discouraged. Our explanation is that sometimes the same story has been used once or that it cannot be used due to its very nature, or even, the column might have been made up for the next week. But don't get disgusted, keep on sending them in, the more the merrier; and to see them the following week have them in by Wednesday noon. Wish we could end this paragraph funny so that it wouldn't sound like an editorial, if it does.

A BRIGHT ONE

One enterprising youth suggests that black lights be placed on autos so that the approaching motorists would not be blinded. They would be just as good as one bright one.

Dick.

Believe It Or Not

It's easy to tell the woman who pays. She's usually married to a Scotchman.

Insurance Adjuster—"What! You want \$15,000 for the loss of a finger?"
Gangster—"Certainly, it was my trigger finger."
Chester

With the determined way that large concerns are after the seniors, it looks as if they will have to stop loafing and go to work.

"What's your name?" inquired the traveler.
"George Washington, sah!"
"Well, that's a name everybody knows."
"If it ain't, it ought to be. I've been drivin' this yere hack in dis yere town for thutty years."

Ode

Flivver, Flivver, little car,
All the world knows what you are;
Shivering as though you're cold—
Lizzie, you are growing old. Phil J.

The lowest depth of despair comes after a six month treatment for halitosis when you discover you are unpopular anyway.
The windows in room H are a very good example of what transparency is not.

Dumb—and How!

Salesman: "Would you like a nice bridge lamp?"
Customer: "No, I never read on bridges."
J. N.

A husband going home with only one alibi at 2:00 a. m. is making a great mistake.

Geese is a low, heavy set bird, which is most meat and feathers. His head sits on one end and he sits on the other. Geese can't sing much on account of the dampness of the moisture. He ain't got no between-his-toes and he's got a balloon in his stum-mick to keep from sinking. Some geese when they get big has curls on their tails and is called ganders. Ganders don't haff to sit and hatch, but just eat and loaf and go swimming. If I was a goose, I'd rather be a gander. John Z.

Things look bright for the column conductor. Four brand new contributors: Dollar Bill, Sparks, Ein Stein, and John Z. Congratulations, and welcome to our Kolom.

HELP! HELP! CRIED THE CLERK

Mrs. Newife—"I'd like to buy a wrench."
Hardware Clerk—"What kind? A monkey wrench?"
Mrs. N.—"Why, er—no, I think my husband wants the big baboon size."
Dollar Bill

True Confessions

Son: "And now, that I've told you I'm going to marry Agnes, there's one more thing I'd like to get off my chest."
Dad: "What's that?"
Son: "A tattooed heart with Margie's name on it."
Wait.

Cheer up, topcoats, your day is due—maybe.
K. K.

Professor Oliver Charles Clifford

(A Biographical Sketch)

BY CHARLES BLAHNA, '31
Oliver Charles Clifford, associate professor of electrical engineering, was born in Wadsworth, Ohio, on February 4, 1870. From grade school he went to Oberlin Academy and then to Oberlin college. In 1893, he received his A.B. degree from the latter, and immediately followed this up by a two-year engineering course at Cornell University.

After leaving Cornell, he went to China, where he taught school for the Imperial Chinese government. After the Boxer rebellion he was in charge of some eight or nine hundred men while building a school there. The uncharged shells were used for making the necessary beams and trusses. In 1904 Professor Clifford returned to Chicago and attended the University of Chicago for two years. In 1907 the degree of Ph. D. was conferred upon him by that University. The thesis which he presented at the time was on the "Susceptibility of Copper and Tin Alloys." Later he studied the hysteresis effect in Heusler alloys with Professor A. A. Knowlton. Strange to say these magnetic alloys are composed of copper, manganese, and aluminum, each of which alone is non-magnetic when pure.

Professor Clifford came to Armour as an instructor in physics in 1906. Three years later he was transferred to the electrical department and promoted to the rank of Associate Professor. Teaching has continued to occupy

FRATERNITY NOTES

SIGMA ALPHA MU

Sigma Epsilon of Sigma Alpha Mu wishes to announce the initiation of the following men: Orville T. Barnett, '33; Sol Edelman, '32; Daniel Michel, '33; Sidney Morris, '33; Milton Winogron, '33.

The chapter held its annual Alumni Banquet at the St. Claire Hotel last Friday evening. The affair was a huge success and many of the old grade were there to feel that old fraternity spirit return once again. The new men were introduced to the Alumni and the Alumni, in turn, were introduced to the new initiates.

his time almost completely, since he also has several evening classes.

While he was in China, in 1898, he met Jennie R. Colman from Colorado and they were married in Shanghai. Their children are two girls and a boy. One girl is married and living in Colorado, while the other is teaching Latin and Greek at Sophie Newcomb College of Tulane University, New Orleans. The son is working for the City Service Company as an oil geologist with headquarters in Oklahoma.

Professor Clifford is a member of the Sigma Xi Honorary Scientific fraternity. In winter books and music constitute his pastime, while in summer, as with many of us, baseball and vacation predominate. A cottage located on the highway between Denver and Colorado Springs, at Palmer Lake, begins calling with the first sign of spring. Each summer he spends some time there enjoying the high altitude and the beautiful mountain scenery.

DELTA TAU DELTA

Gamma Beta Chapter of Delta Tau Delta announces the initiation of Harold D. Marshall F. P. E. '33 Sunday, March 23, 1930.

There will be a dance at the House Saturday evening, April 12, 1930.

BETA PSI

Beta Psi announces the initiation of the following men, O. W. Staib '33, D. B. Snapp '33 and L. Anderson '33. The initiation, which was held Saturday, March 29, was followed by a banquet at which many alumni were present.

RHO DELTA RHO

Friday, March 21st, Rho Delta Rho held the informal initiation for the following pledges: Sam Milevsky, '32; Herman Meyer, '33; Henry Fishman, '33; Ted Cohan, '33; Ira Krawitz, '33.

The formal initiation was held Friday March 28 at the chapter house, and was followed by a dinner. An initiate dance is being planned.

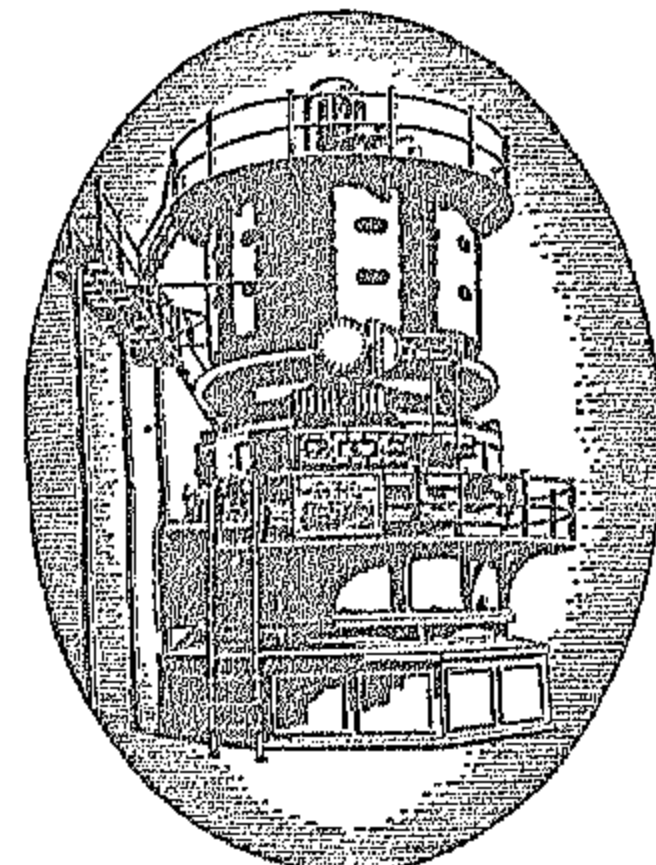
THETA XI

The Annual Spring Formal will be held in the Marine Dining Room of the Edgewater Beach Hotel on Saturday, April 12.

SIGMA KAPPA DELTA

Election of officers for the coming year was held on the evening of Tuesday, April 1, with the following results: President, Harold Fox, '31; Vice-president, Charles Link, '31; Treasurer, Joseph Kennedy, '33; Recording Sec., Edward J. Stehno, '31; Corresponding Sec., R. H. Kutteruf, '31; Sergeant-at-Arms, R. R. Eddy, '31; Social Chairman, R. A. Timmermans.

The annual Hard Time Party will be held at the Chapter House on the evening of Sat., April 12.



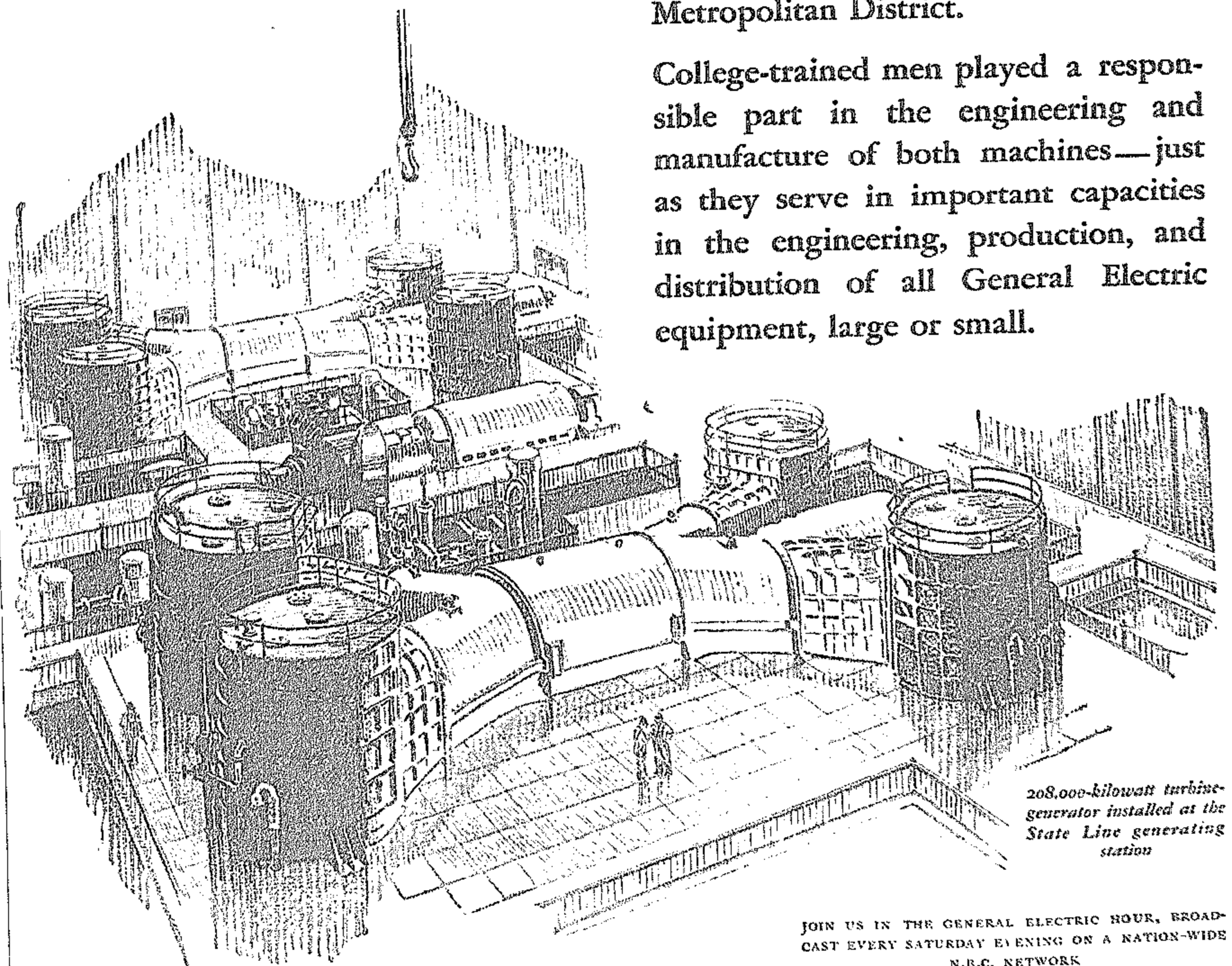
5000-kilowatt turbine-generator installed in 1905 at the Fish Street station of the Commonwealth Edison Company, Chicago

When Small Machines Were Big

MORE than a quarter century ago, the Commonwealth Edison Company, prophetically alive to the immense possibilities of the future, ordered from General Electric a 5000-kilowatt steam turbine—in those days a giant of electric power.

To-day, a General Electric turbine-generator of 208,000-kilowatt capacity sends out its vast energy to the Chicago Metropolitan District.

College-trained men played a responsible part in the engineering and manufacture of both machines—just as they serve in important capacities in the engineering, production, and distribution of all General Electric equipment, large or small.



208,000-kilowatt turbine-generator installed at the State Line generating station

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GENERAL ELECTRIC

SALES AND ENGINEERING SERVICE IN PRINCIPAL CITIES

ARX NEWS

This column is making its debut today to the students of Armour as the official news of the architectural department. We hope that it will be of interest to both the architects and the engineers. It will be necessary to have an appropriate name and therefore we ask the readers to suggest something that will fit the subject. Repeating the announcement of Tuesday, March 25th, any news should be turned in to H. P. Richter, '32 or E. C. Kubicek, '32, before Thursday of each week.

The second set of drawings of the exhibition sponsored by the Association of Collegiate Schools of Architecture was at the Burnham Library of the Art Institute during the week of March 24th.

Armour Institute was represented in this exhibit by a Class A project, An Employment Agency, by Harold R. Lutz; a Class B Archaeology project, A Greek Temple, by F. Polito; and a Class B project, A Fire House, by Everett Goldenberg.

The other schools represented in this exhibition were: Massachusetts Institute of Technology, University of Michigan, Carnegie Tech., University of Southern California, University of California, Ohio State University, Princeton University, University of Illinois and Kansas State Agricultural College.

We were very sorry to hear that Professor Dean had to undergo an operation for appendicitis recently. We hope, however, for a speedy recovery and his return to his classes.

The Beaux-Arts Institute of Design held an exhibition of drawing done by the various schools enrolled in their system at the Art Institute.

Civils Make Two Trips Jr. Archs Travel Once

The sophomore civils and junior architects made an inspection trip on Friday, March 28, to the American plant of the American Bridge Company at Forty-second Street and Princeton Avenue.

They were conducted through the plant and shown the entire process of the assembling and fabricating of trusses and other structural members.

Yesterday the senior and junior civils made a trip to the Movara plant of the McClintick-Marshall Construction Company at Eighty-third Street and Stewart Avenue. This plant is, with the exception of the American Bridge Company's Gary plant, the largest and most modern plant in the Mid-west.

Through the influence of Mr. Reed the Burnham Library had an exhibition for one week commencing April 2nd, the designs entered for the Vincennes Memorial in a nation wide competition. The George Rogers Clark Sesquicentennial Committee, which was established by Congress, is to erect at or near the site of Fort Sackville, in Vincennes, Indiana, a permanent memorial in honor of George Rogers Clark and his associates in the War of the American Revolution.

Because of this exhibition the group of bridge photographs by Mr. Charles Whitney scheduled for this time will be postponed for one week.

Wanted: A man who can pole vault. Signed: D. J. Paul, track captain.

If you wish to apply, see Paul now and he will sign you up.

Ventilation experts have decided that a dog's lungs are the seat of his pants.

Teach Delivers Statistic Talk

Professor V. B. Teach of the department of mathematics delivered the lectures for the week of March 23 to Professor Freeman's evening class in Engineering Economics. He spoke on Statistical Methods, choosing the following topic classification for discussion: The Organization of Statistical Data and Graphic Presentation, Frequency Distributions and Averages, Index Numbers, Analyses of Time Series, Correlation, Estimating and Sampling.

In discussing averages he pointed out that the representation of a frequency distribution by an average, a single typical figure, is only justified if there is a tendency of large masses of the data to cluster about a central figure, from which the values of all observed cases depart with some degree of regularity and smoothness. Engineers who make successive grades of 20, 30, 100 in Calculus can take heart from now on as Prof. Teach will surely realize that a mark of 50 does not indicate their true knowledge of the subject.

The index numbers of production and prices used so much at the present time were shown to be of little value unless one understands the method used in their calculation. It is interesting to note that Bradstreet's and Dun's indices which are obtained as the result of laborious computation could be determined by only a few factors, and are useful only in indicating the trend of these few.

Professor Teach believes that the application of mathematical statistics to economics, business and finance, engineering and biometrics has just begun.

Sophomore Gets Award From Fire Protects

The Fire Protects held their annual smoker Thursday night, April 3, at the Delta Tau Delta house.

Each year at this smoker, Salamander presents a handbook on Fire Protection Engineering to the sophomore who has the highest scholastic average for his freshman year. Walter M. Trouten was the winner of the prize for this year.

The speakers for the evening were W. H. Townley, J. V. Parker, J. B. Finnegan, Smoky Rogers and E. E. Vernor. After an hour or two of gambling, during which time Mr. Townley managed to collect more money than anyone else, a few talks and much smoke, the ice cream and cookies were welcomed and disposed of.

Program Dedicated to Chemical Engineer

The weekly radio salute of the Westinghouse Electric and Manufacturing Company for tonight, April 8, is to be dedicated to the chemical engineer. This program, broadcast over KYW locally at 9:00 P. M., is part of a series designed to acquaint the general public with the scientific and engineering advances taking place in the various industries and professions.

Rifle Club Holds Business Meeting

The Rifle Club held a business meeting last Wednesday, April 2, in the physics lecture room at 12:45. The drive which the Rifle Club has been making to put target shooting on the same basis as other sports is progressing steadily. To date a range in Chapin Hall has been obtained and set up, the club is a financial success and the rifle team is getting better as is shown by the average score of 86 which was turned in against Crane.

The money obtained from the dues is to be used in buying another club rifle and in improving the range. After the above business was concluded, president H. E. Steir, '30, announced that an election of officers will take place about the first part of May.

An announcement was also made concerning the match with the Hyde Park Y. M. C. A. to be held Saturday evening April 5.

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MAJOR TO SPEAK TO CHEMICALS

The Armour Branch of the American Institute of Chemical Engineers at its next regular meeting, Tuesday, April 8, at 11:30, in the Physics lecture room, will hear Major Heritage of the Chemical Warfare Service of the United States Army speak on "The Relation of Chemical Industry to the Manufacture of Chemical Warfare Agents." Slides will be used to illustrate the talk.

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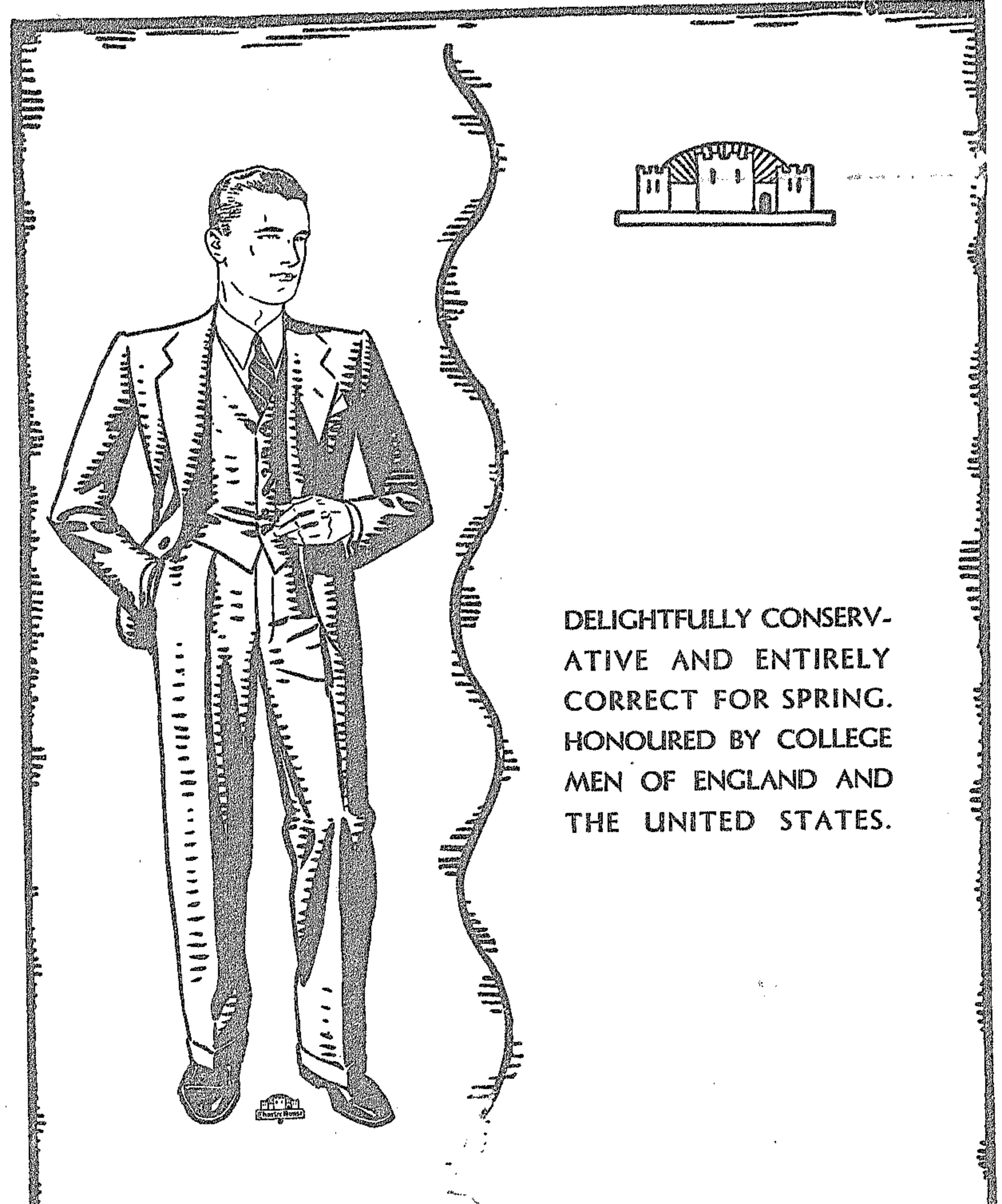
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OUR PIONEERING WORK HAS JUST BEGUN

ARMOUR WINS INVITATIONAL

CAPTAIN PAUL TIES RECORD AS ARMOUR DEFEATS SELECT GROUP OF FIFTEEN COLLEGES

Majority of Second and Third Places Account for Large Total of 61 Points; Chicago Second

O'NEIL OF LOYOLA U. HIGH POINT MAN

Armour Tech trackmen rose to greater heights than ever before last week when they defeated athletes representing 15 colleges competing in the second annual Armour Tech Invitational Indoor Track meet held in Bartlett gymnasium at the University of Chicago.

Eleven of the fifteen teams entered were listed in the final point column indicating the keen rivalry displayed by the visiting teams. 140 athletes were entered in this meet.

Don Paul, captain of the black and gold team of Tech, was the outstanding performer of the afternoon when he put the 16 pound shot 46 feet 9 inches. This heave tied the Bartlett gym record which is held by Weaver of Chicago. On the night before the Invitational Paul took first place in the shot in the Central A. A. U. indoor championships held at the Oak Park high school. His winning distance was 45 feet 11 1/4 inches. Incidentally Don collected Armour's only undisputed first place of the nine event schedule of the Invitational.

The quarter-mile race which was run in two heats ended in a tie between Freudenthal of Chicago and Sturm of Armour. The Chicago lad took first place in the second heat after Sturm copped the first heat in identical time of 54.4 seconds. Sturm had won the 440 on six occasions prior to the Invitational meet.

Armour collected twice as many points as its nearest rival, the Chicago B squad, to win team honors of the meet. Although Tech won but two firsts a majority of the second and third places and two fourth places accounted for the huge point total amassed by engineer squad. Places were scored according to the following plan: first, ten points; second, eight points; third, six points; fourth, four points; fifth, two points. There were no relay races included in the afternoon's program.

Sademan gave the Wheaton flash, Hess, a very good race in the mile. For a time it seemed as though Elmer would win from the flying minister but the Wheaton lad had too much left and nosed Sademan out of first on the last lap of the race. Elmer scored a third in the two mile coming in after James who took second. Harlacker of the University of Chicago won first in ten minutes and eleven seconds.

Tech's third places were chalked up by Kara who won a third in a select field in the high hurdles, and Dan Iverson who placed third in the 880 after scoring a first in his heat in the half-mile run.

Harold Fox won a gold ribbon and a fourth place for Armour in the 440. Fox after a poor start won second in his heat and then placed fourth in the event. Jens won fourth in the 50 yard dash in a field of 26 starters. He placed second in the fourth heat, third in the semi-finals and fourth in the finals of the 50 yard dash.

Complete summaries follow: One mile run—Won by Hess, Wheaton; Sademan, Armour, second; O'Neil, Loyola, third; Garrity, Mooseheart, fourth; Lawrie, Chicago, fifth. Time, 4:32.4.

440 yard run final—Won by Freudenthal, Chicago, Sturm, Armour, tied for first; Zuly, Loyola, third;

TABLE OF POINTS	
Armour	61 1/2
Chicago B	31
Loyola	30
Chicago Normal	26 1/2
Crane	24 1/2
Lake Forest	24
Mooseheart	22
Wheaton	16
Marquette	10
Butler	10
Beloit	9 1/2

Annual Golf Tourney Won by Johannsen, '33

The annual Golf Tournament which drew fourteen contestants was held at Evergreen Park. The players were naturally handicapped by the fact that the state of the weather had been such as to prevent any extensive practicing such as they usually take advantage of later in the season when the game is well under way. The fairways and greens were in fairly good condition considering the fact that it is so early in the season. The majority of the men played twenty-seven holes, although some of those who felt that they wouldn't place left the course after they had holed out at the eighteenth.

Johannsen, '33, took first with a total of 147, Zacher and Chamison tied for second place with 150, Baldwin took 152, and Pearson and Garen totaled 154 and 159 respectively.

Fox, Armour, fourth; Glover, Beloit, fifth. Time, :54.4.

50 yard dash final—Won by Ramsey, Chicago; Fitzgerald, Lake Forest, second; Lewis, Crane, third; Jens, Armour, fourth; Stovel, Loyola, fifth. Time, 5.7.

Pole vault—Won by Bangert, Chicago Normal; Parker, Lake Forest, second; Gallop, Crane, third; Silk, Mooseheart, fourth; Holden, Crane, fifth. Height, 11 feet 4 inches.

Two mile run—Won by Harlacker, Chicago; James, Armour, second; Sademan, Armour, third; Heake, Wheaton, fourth; Ferris, Wheaton, fifth. Time, 10:11.

High jump—Won by Belford, Chicago Normal; Stearn, Butler and Silk, Mooseheart and Walsh, Loyola, tied for second. Height, 5 feet 11 inches.

High hurdles—Won by Thompson, Marquette; Sowers, Mooseheart, second; Kara, Armour, third; Collier, Chicago Normal, fourth. Time, 6.7.

Shot put—Won by Paul, Armour; Parker, Lake Forest, second; Ameno, Beloit, third; Stearn, Beloit, fourth; Peteeshee, Crane, fifth. Distance, 46 feet 9 inches (equals Bartlett gym record held by Weaver of Chicago).

880 yard run—Won by O'Neil, Loyola; Romin, Crane, second; Iverson, Armour, third; Glover, Beloit, Zuly, Loyola, tied for fourth. Time, 2:06.



Baseball Season Opens Thursday

Armour Tech has a diamond engagement scheduled for Thursday with Morton Junior College at Ogden Field. The old familiar yodel "play ball," of the umpire will be enacted at 4 p. m. With a game impending, the squad of possibly thirty has been working feverishly to get into the best of shape. Despite this effort, however, our contingent is woefully weak with the bat.

A potential Tech Juggernaut is possible if the new prospects come through as expected. Of the new candidates, De Orto, Moran, Drigot, Cosme, Galvane and Rowley seem to be the class of the group. With these men to round out the squad of excellent veterans such as Captain Simpson, Robin, Reichle, Link, Stehno, Hauser, Weldon and Anderson a well balanced aggregation will not be too much to expect.

On Monday, April 14, a squad of fifteen players will embark for South Bend, Ind., to tangle with the strong "Irish" team of Notre Dame University. Manager Short announces that a special rate of \$4.50 a round trip will be offered to the first ten persons wishing to accompany the team to the contest. The entire coterie will leave some time Monday morning. Hence, if any of you are interested it behooves you to make arrangements with either Coach Krafft or Manager Short.

TECH SHORTS

Spring Activities

Everything seems to have started at the same time around Tech last week for baseball practice began out-of-doors, track men started their cinder pounding and tennis players have dusted off their racquets. Besides this the various fraternity sports have made their first bow.

Ogden Field has been repaired under the direction of Coach Krafft. With two baseball games next week he has very little time to get his team ready for the biggest schedule Tech has ever engaged in. Although the first string pitchers are in good shape at present the rest of the squad is not quite ready for heavy work.

A. H. J.

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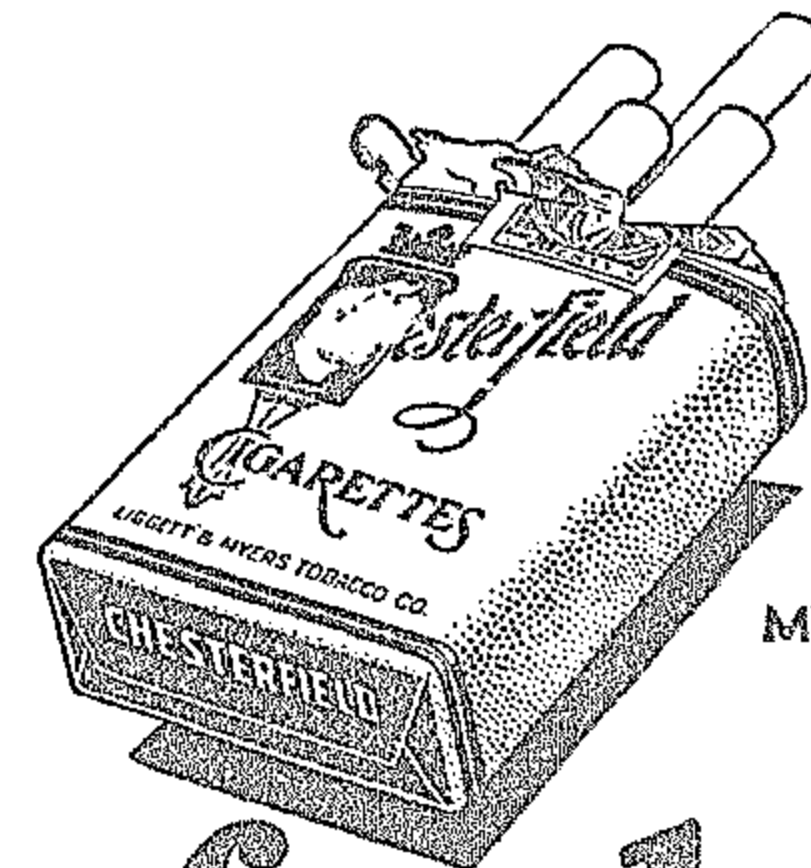


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