

FRESHMEN:
ATTEND YOUR
SMOKER!

Armour Tech News

SEE VARSITY,
ALUMNI PLAY
TONIGHT

Vol. II. No. 11.

Armour Institute of Technology, Chicago, Illinois

December 6, 1928

FRESHMEN COMPLETE FINAL ARRANGEMENTS FOR SMOKER: SET FOR NEXT WEDNESDAY

Western Society of Engineers Grants Use of Rooms In New Wacker Drive Building; Chapman In Charge of Affairs

What is it?—Freshman Smoker! Where? Rooms of Western Society of Engineers! When? Wednesday, Dec. 12 at 7:30 p. m.!

That is the dope, freshmen, and the whole gang will be there. At last the dreams of a hard working committee came true when they made their announcement of the smoker. This event is something new in the way of social events here at Armour, and has caused considerable interest on the part of everyone. "This smoker," Dave Chapman, chairman of the Freshman social committee, says, "I believe, is a good way to get the freshmen together. Since the 'handshake' the freshmen have just gone through their daily grind and have become acquainted with only a few in their own departments. I hope that this will bring them closer together."

The members of the committee announce that they have secured excellent entertainment. Professor John J. Schommer is to give a talk upon some subject, to be chosen by him. It is rumored that this subject may have something to do with football, and include a few Swedish jokes, but no authoritative statement has been made yet. Through the courtesy of Mr. Mercer, a prominent Chicago engineer will give the talk of the evening. An added treat will be a reading by Professor Ambsary. Then the freshmen will have some of their own talent. Four of them have banded together to form a string quartette. They will entertain (?) with a few numbers.

Refreshments will be plentiful, consisting of cake, apples, and ice cream in the form of "Dixies." This social function has met with the approval and help of both the Deans. As a measure of their wishing the freshmen success, they will furnish the cigars and cigarettes. They have also announced that there will be no homework required for any freshman on Wednesday evening.

A nominal charge, twenty-five cents, is being made to cover the cost of refreshments. This is being collected by selling tickets; which have been going so fast that over two hundred freshmen are expected to turn out.

The rooms of the Western Society (Continued on page 3, col. 3)

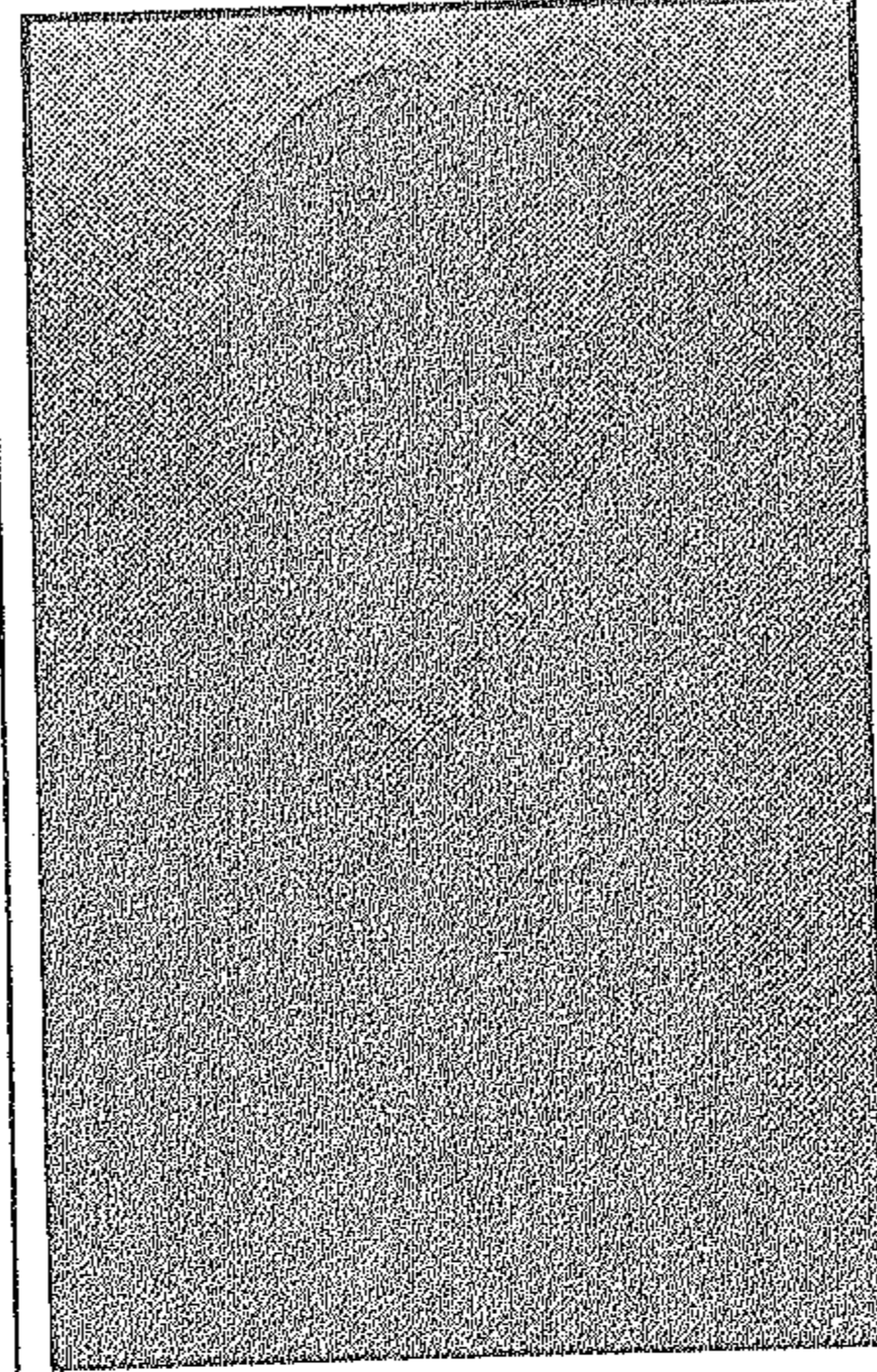
New Air Navigation Method To Be Taught

A new or rather improved method of air navigation will be given in the Aeronautics courses at day and night school. Prof. J. E. Griffith will teach this method in conjunction with the Air Navigation course taught in the Civil option in the second semester. Philip V. E. Weems, Lieutenant Commander, U. S. Navy, developed this new method at a suggestion received from Mr. K. H. Beij of the Bureau of Standards. By the so-called "Weems' Method" of fixing one's position astronomically, it is possible to reduce the time of computation to 40 seconds, or about one-eighth of the usual time required.

The "Weems' Method" makes use of a specially designed sextant, which incorporates a bubble as an artificial horizon, and a series of star charts that were developed by Lt. Com. Weems. By the use of these charts and the improved sextant, Col. Lindbergh was able to fly a plane with one hand and determine his position by taking a sextant altitude with the other.

An article by Lt. Com. Weems appeared in the issue of "Liberty" of November 24 in which his topic was, "Teaching Lindbergh How to Fly."

Frosh Social Chairman



DAVID CHAPMAN

Television Features Radio Ass'n Meeting

Station WIBO will broadcast a one-hour program of pictures next Monday morning beginning at 11:30 as part of an experiment in "television" being conducted jointly by the Armour Branch of the American Institute of Electrical Engineers and the Armour Radio Association.

At the Armour Tech end of the system, a complete apparatus for the reception and development of the "television" program will be operated through the courtesy of the Carter Radio Corporation. Mr. U. G. Sanabria of the Carter Radio Corporation will be in charge of the apparatus. Pictures will be thrown on a screen in Science Hall where all students of the electrical department, as well as any others who may have an open hour at that time and are interested in the demonstration, may view this most recent of the developments in the field of communication.

Station WIBO is the broadcasting unit of the Nelson Bros. Bond and Mortgage Co. The pictures they are to broadcast will be sent especially for reception by the apparatus located in Science Hall, where the two organizations will be in joint meeting.

Mr. Sanabria is a pioneer in the development of visual broadcast, having had charge of the Carter Co.'s research work for many years. He will explain the development and the present status of the invention to the gathering, and will answer any questions propounded by those present.

Pictures Taken Here For Evening American

Friday, November 23, the school was visited by a reporter and staff photographer of the "Chicago Evening American" for the purpose of taking pictures of the students at work in the various engineering laboratories. These pictures are to illustrate an article to appear in the magazine section of the Saturday American in the near future.

Various machines were photographed in operation in the chemical engineering laboratory. In the metallurgy lab, pictures of students performing the operations of smelting and assaying were taken. Pictures were also taken in the gas engine and dynamo labs.

Armour Glee Club To Sing from WLS Dec. 12

Dr. Daniel Protheroe will direct the Armour Tech Glee Club in a concert Wednesday evening, December 12, to be broadcast over station WLS. The glee club will be featured on the choral hour regularly given by the Sears Roebuck station between 9:30 and 10:15. The glee club has been instructed to meet at the Sherman house studio, Clark and Lake, at 9:10.

No definite choice of numbers for the program has as yet been made. However, a tentative list of selections has been made and includes the following numbers: "The Lost Chord," "Viking Song," "Winter Song," "Ma Li'l Banjo," and several other pleasing renditions. The program will also probably contain several of Dr. Protheroe's own compositions.

The glee club this year has a wealth of freshmen talent in its ranks, much of which has shown exceptional ability. Dr. Protheroe believes that with the quality of tone and volume displayed during the recent rehearsals, the program will be one of merit, and a credit to the school.

The last rehearsal of the club before the broadcast will be held tonight at 5 o'clock in the assembly hall.

The director and members of the chorus will welcome any comment listeners may have to make on the program. These criticisms may be sent to the NEWS letterbox, or better still, may be addressed directly to Station WLS.

SYNTHETIC GEM EXPERT TALKS TO CHEMICALS

On Monday, Dec. 3, the members of the A. L. Ch. E. were addressed by Mr. G. Everett Marsh on the subject of Synthetic Gems. Prof. Freund introduced the speaker as a former professor in the Electrical Engineering Department of the institute. Mr. Marsh is one of the country's foremost experts in this line, and is a manufacturer of these gems. His factory has a yearly production of about 2,000,000 carats.

Mr. Marsh stated that all the literature on the subject was to be found in French as the French have done most of the work in synthetic mineral chemistry since 1880. Early attempts were all concentrated on the ruby. Small rubies were made as early as 1850 but large ones were not made until 1880. These were made by introducing finely powdered aluminum oxide into the oxygen supply of an oxy-hydrogen flame. As the particles hit the flame they are melted and are then driven by the blast on to an aluminum pencil. This is a very difficult process as the reaction must be carried on above 2250 degrees Centigrade, but must not exceed 2450 degrees Centigrade. This process is used today.

Only the purest chemicals can be used to prepare the materials for the gems. Often the best grade on the market must be purified further before it is acceptable for use.

Commercial synthetic rubies appeared on the American market in 1904. Sapphires appeared in 1910. A two carat ruby made synthetically costs about three dollars, while the natural gem of the same size costs four thousand dollars. The gems made by men are identical with the natural product, except that the product is more uniform and free from flaws.

Only gems of the ruby and sapphire type can be made at present. Emeralds are not made although a gem of superior wearing properties is made in its place.

McCAFFREY, ALUMNI SEC'Y, CONFINED HOME WITH FLU

J. Warren McCaffrey, '22, secretary of the Armour Alumni Association, was confined to his home at 7623 Bennett Avenue last Monday. His physician gave him orders to stay at home for a few days due to an attack of influenza.

Dean Penn Returns From Visit To East

Dean Penn returned last week on Wednesday from an interesting trip to Stevens Institute of Technology, where he attended the inauguration of Dr. Harvey N. Davis, the new president of the college. This convention indicates the spirit of cooperation that exist among the various institutions of the country. Representatives from 152 different colleges, universities, and societies attended, where they joined with the alumni and students of Stevens Institute in giving Dr. Davis a hearty inauguration. There were 381 people attending the inaugural dinner, while during the ceremonies, the auditorium was packed to overflowing.

Old Stevens Loco Displayed
As a part of the program, the Pennsylvania Railroad staged a demonstration with a replica of the John Stevens locomotive which was built in 1826. The tracks on which the engine ran were made of wood, which were fastened together on the top with short iron straps. On curves, short, straight pieces were used rather than curved rails. Centered between the two main rails is a third, also of wood, on top of which are sections of cast-iron track to gear with a cog wheel on the locomotive. The carriage itself is fitted with ordinary wagon wheels about five feet high, entirely independent of the power plant. Near one end is the boiler encased in a cylindrical iron shell surmounted by a flat cone which terminates in a cylindrical stack. This (Continued on page 2, col. 5)

STUDENT TALENT FEATURED IN 1ST ENGINEER ISSUE

Resplendent in a duo-color cover, the first number of the Armour Engineer, the school quarterly publication, was distributed Wednesday, November 28. This is the twentieth year of publication of the magazine, and the bountiful supply of illustrations and photographs, feature articles, and news matter in the recent issue uphold its reputation.

Several Student Articles
Four student articles were featured in this issue of the Engineer. The authors of these articles were M. B. Golber, '29, L. C. Kantner, '31, N. S. Ewing, '29, and I. G. Klein, '29. The Commencement Address to the class of 1928 by S. L. Avery, president of the United States Gypsum Co., and a discussion of the relation between the utility companies and educational institutions by George R. Jones, Vice-president of the Public Service Company of Northern Illinois, are included. An article by R. H. Earle, '17, on Chromium Plating is an added feature.

The many excellent advertisements by national manufacturers and firms add to the dignity and general appearance of the publication. The high quality of paper used, and the evident care with which the number was made up all contribute towards the high standard of the magazine. The staff of the Armour Engineer is as follows:

L. F. Bernhard, '29, Editor.
M. B. Golber, '29, Associate Editor.
R. J. Guenther, '29, Articles Editor.
H. H. Dozois, '29, Engineering News Editor.
A. J. Stabovitz, '29, Humor Editor.
J. Warren McCaffrey, '22, Alumni Editor.
N. S. Ewing, '29; I. G. Klein, '29, Articles.
V. A. Peterson, '29, Local News.
C. A. Blomquist, '29, Local News.
(Continued on page 3, col. 4)

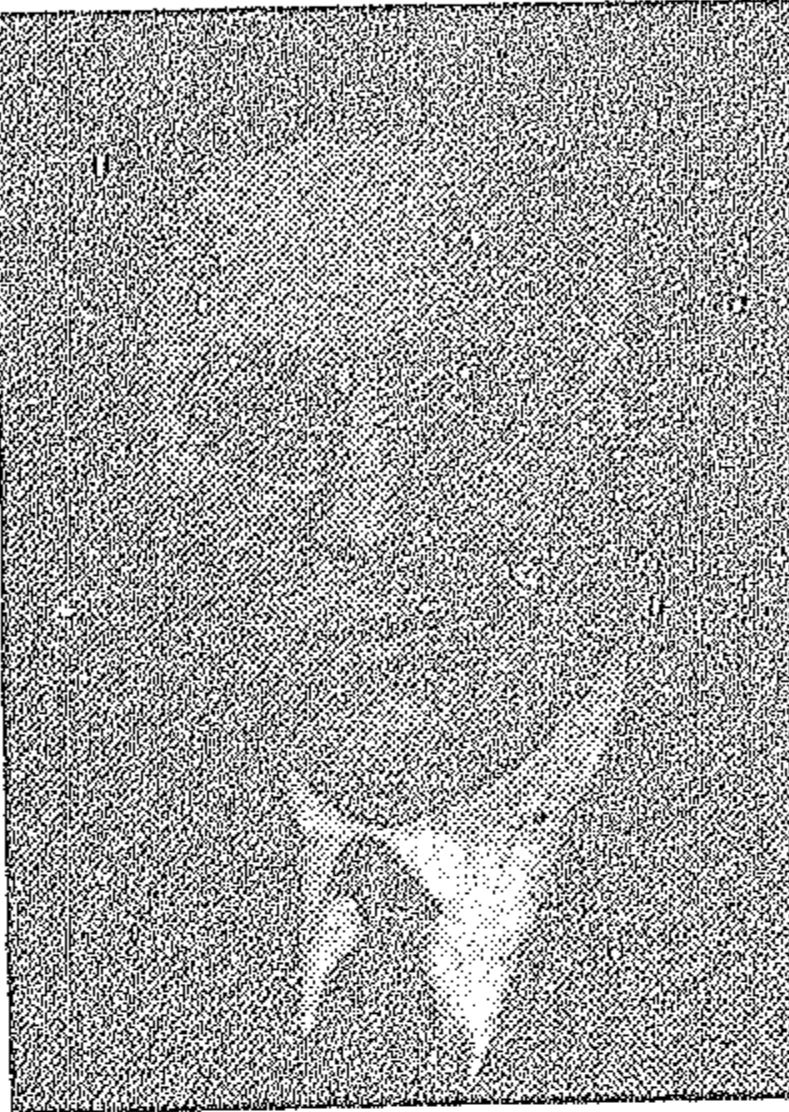
STUDENT MASS ASSEMBLY SCHEDULED FOR NEXT WEEK

An assembly, sponsored by the Bureau of Commercial Economics, will be held Friday, December 14 at 10:30 in Assembly hall. The speaker will be Robert H. Tait, the well-known explorer. His lecture, "Unknown Newfoundland," will be accompanied by motion pictures and colored slides.

TECH QUINTET HUMBLLED BY CRANE TIGERS BEFORE 200 LUSTY ROOTERS; SCORE 42-15

Coach Smid's Aggregation Outclasses Armour Basket Tossers In Opening Match; New Cheerleader Keps Spirits Soaring

Visits Stevens Tech



DEAN JOHN C. PENN

Alumni, Varsity Play At Honor "A" Reunion

The Honor "A" Society is inaugurating Armour Tech's first "Athletic Alumni Reunion" tonight. The event is being undertaken to revive interest of the alumni in the sports activities of their alma mater.

Banquet at Lakota
The gathering will first witness a basketball game between the alumni and the varsity teams, who will play at the Eighth Regiment Armory, 35th and Giles Ave., at 5 p. m. Immediately after the game, the crowd will assemble at the Lakota Hotel, at 30th and Michigan, where a dinner will be served followed by an after-dinner program.

Schommer to Talk
During the course of the evening, the following men, all of whom are vitally interested in the progress of athletics here, will address the group on various phases of athletics: John J. Schommer, athletic director; C. A. Tibbals, tennis coach; W. C. Kraft, baseball and basketball coach; E. W. McGillivray, swimming coach, and A. A. Stagg, Jr., track coach.

Cross-Country Men Invited
Coach Stagg requests that the members of the cross-country team be present, since he has an announcement to make which will be of interest to them. The nature of this announcement he refused to divulge. The presence of members of the society is imperative.

The secretary of the society has sent out letters to 150 of its alumni members, and many responses were already received at the time of publication. With this interest shown, the society anticipates a record turnout at this first reunion of its history.

Famous Booby Medal Awarded to Misegades

On Wednesday, November 21, tense excitement prevailed in Professor Carpenter's metallurgy class, as an epoch-making presentation ceremony was in progress. J. R. Yount made the presentation speech, awarding Keith Misegades the famous "Schmier-Chemiker" medal. This medal, a traveling trophy, is presented to the member of the senior chemical class who does the sloppiest act. Misegades received it this time for allowing one of his products to decerate the wall in the laboratory in Christmas tree style.

His fame, however, threatens to be short lived. It is reported that a successor for Mr. Misegades has been suggested, but was found wanting in qualifications for this high honor. So Misegades is still wearing the badge of distinction.

Armour pried open the lid of its basketball season with a rather inauspicious start before 200 local fans losing the initial battle to Crane College to the inharmonious tune of 42 to 15.

The score might seem to indicate that the home outfit's offensive strength was not up to standard, but a survey of the game reveals some sad news that is startling in many respects. The Boiler-makers committed many an unpardonable sin in the frequent missing of free throws, many of which missed the mark by a hair's breadth. A hair's breadth is just as far as not at all, so many of their attempts at evening the lopsided score went for naught. That, together with inaccurate passing and that certain lack of offensive formation where the ball was in local possession, hindered their chances and laid waste their hopes of overcoming the Cranemen.

Crane Piles Up Early Lead
Crane started the fireworks in the opening moments of play and toiled at a rapid pace. Armour often interrupted their progress but was hammered too severely, and could not snap out of its slumber.

Tell Plays Stellar Game
The occasional baskets registered by Tell sent the stands into a veritable uproar, and the 200 rabid fans made use of every available opportunity to cheer the efforts of Coach Kraft's proteges. When the team failed to furnish the Tech following with any reason to echo their enthusiasm, "Andy" Andrews, Armour's new sensation, and John Brady, supplied sufficient pep to give the engineers an added impetus to score in their losing fight.

Armour Plays in Sports
At times, the home cagers came to life and it seemed as though the already one-sided affair would even up. But these spurts were soon stopped and again the Crane Tiger barked out a few more tallies. (Continued on page 4, col. 2)

Andrews Makes Bow At First Pep Meet

A pep meeting was held in Assembly Hall Tuesday, at 11:30, to stir up a little spirit for the Crane basketball game, the first game of the season. The band played two numbers. J. P. Edstrand, Jr., '29, President of the A. T. A. A., opened the meeting with a plea to the student body to support its teams. He was followed by John Schommer, Director of Athletics. Other speakers were E. W. Brockman, last year's captain, Johnnie Manz, this year's captain, and Coach Bill Kraft.

The feature of the meeting, however, was the discovery of a new cheerleader in the person of "Andy" Andrews. Andrews, a junior Mechanical, hails from Iowa State University, Ames, Iowa, where he had quite a bit of experience in leading cheers. He succeeded in getting some real yells from the students, and shows promise of doing better with the students when they get more practice.

The old familiar skyrocket was done with a reckless abandon, then followed one new to Armour students. It proved to be a corker, and will probably be used with great effect during the rest of the year. In this yell, the cheering section is divided into two parties, which alternate. It goes:

First Section: Say!!
Second Section: What?
First: That's What!!
Second: What's What?
First: That's What They All Say!
Second: What Do They All Say?
Both: Beat Notre Dame! Beat Notre Dame!

ARMOUR TECH NEWS

Student Publication of the ARMOUR INSTITUTE OF TECHNOLOGY CHICAGO, ILLINOIS Published Weekly During the College Year

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- Editor-in-Chief: John Hommes, '29; Desk Editor: Fred B. Farrell, '29; News Editor: David T. Smith, '30; Department Editor: Charles E. Morris, '30; Assistant: Walter J. Ehrmeyer, '29; Social Editor: John E. Tarman, '30; Assistant: Vernon A. Sturm, '30; Athletic Editor: John P. Edstrand, Jr., '29; Assistant: Chester Stempkowski, '32; Humor Editor: A. B. Auerbach, '31; Feature Writer: Joel M. Jacobson, '29; Faculty Adviser: Professor Walter Hendricks

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HERE ARE WHOLE WORLDS OF FACT WAITING TO BE DISCOVERED BY INFERENCE. —Woodrow Wilson.

The Strategic Position of the Engineer

Recent discussion coming to light in the newspapers regarding the present complexity and seriousness of the unemployment problem gives the engineer ample justification for swelling with pride at the very important position he holds in the maze of present day economic conditions.

First of all there is the Hoover plan to "stabilize prosperity" by establishing a \$300,000,000 reserve fund to be expended for public work in times of approaching slackness in industry. This scheme was brought before the annual Conference of Governors at New Orleans by Gov. Brewster of Maine, who was acting as spokesman for the president-elect.

Then there is the recent resolution of the American Federation of Labor condemning the advent into industry of any machines which will tend to minimize the need for human labor.

A third point of interest comes from Roger Babson, who reminds us of another solution for the unemployment problem, that of the creation of new industries.

Almost simultaneously with the statement by Babson comes a report from England that large scale production of artificial cotton, superior to the American natural product, has been begun, and bids fair to offer a much needed field of labor for Britain's unemployed. But while it may relieve conditions on the Island, the threatened disturbance of the demand for American cotton is causing the southern growers and the New England mill owners, together with their employees, serious concern.

Here is food for thought, if the engineering student is hungry for something to ponder. The president proposes that the periods of depression be wiped out by the undertaking of great engineering projects during the otherwise slack periods. A mechanical engineer develops a machine which does the work of fifty men, and labor kicks. A year later that very machine enables expansion of the industry so that 100 men can be employed where fifty were needed before, and labor smiles gratefully. A chemical engineer discovers a process whereby better cotton can be made from a weed, and a new industry springs into being. The railroad, the automobile, the radio, and now the airplane, have all heaved with tremendous force against the tide of civilization to change the course of human progress.

In all these evolutionary, sometimes revolutionary, advances, the work of the engineer has been foremost. He has in his power, more so than men of any other profession, forces which may disturb the economic balance of present day complex and very sensitive human relations. He should be very well aware of his peculiar advantage.

Importance of Diction

Armour is not a trade school; it is an engineering college of the first order, and as such, poor diction and correct pronunciation are as essential to the student's education as mathematics. The application of geometry and calculus is more necessary while in college than is good English, but when the graduate enters the business world the relative importance of the two is reversed. Can you imagine the division engineer of a railroad saying to his superiors, "This here is a idea I got of why it don't work"? Phrases involving errors similar to the ones in the above sentence may be heard wherever the student is given an opportunity to recite. In a senior class recently, it became necessary for the professor to call the attention of the students to their errors in an attempt to reduce them. A condition becomes serious when consideration is given by those who have no apparent interest in such "details."

The matter of proper pronunciation is a factor that must be given special attention. Words such as "apparatus," "economics," "detail," etc., which form a portion of every engineer's vocabulary are often taken as matter-of-fact and the correct or preferred pronunciation never investigated. It is highly probable that in effective speech, poor pronunciation does more to condemn the speaker than good pronunciation would justify. This merely indicates that although good pronunciation will not put a person in a class by himself, it will keep him out of an undesirable one. —F.F.

"THE SLIPSTICK"

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

A murdered man, ten miles away, Will hardly shake your peace, Like one red stain upon your hand; And a tortured child in a distant land Will never check one smile today, Or bid one fiddle cease.

The News It came along a little wire, Sunk in a deep sea; It thins in the clubs to a little smoke Between one joke and another joke, For a city in flames is less than the fire That comforts you and me.

The Diplomats Each was honest after his way, Lukewarm in faith, and old; And flood, to them, was only a word, And the point of a phrase their only sword, And the cost of war, they reckoned it In little disks of gold.

—From "Wine Press," by Alfred Noyes. A Scot named MacIntosh had an argument over his cab fare.

"Do you know who I am?" he said proudly, "I am a MacIntosh." "I don't care if you're a new umbrella, I'll have to have my fare." —F.B.A.

Helpful Hints to M. E.'s

Probably the most annoying noises in most cars would be completely and permanently eliminated if the drivers were to clamp down upon the nut which is usually found on the front right hand seat. —Freddie.

Dumb: Gee, that's a snappy plaid tie. Dumber: Sure, but it chokes me. Dumb: How come? Tight? Dumber: Yea, Scotch. —Tomthumb.

Contributor Kenny remarks that because of his marvelous knowledge of mechanics and physics, he is able to say authoritatively that modern dancing is a lot of waist motion.

Honesty, Etc.

M. E.: I want a file. E. E.: Do you want a steel one? M. E.: Naw, I only want to borrow it.

Prof. Gill: Give me the formula for water. Frosh: H-I-J-K-L-M-N-O. What??? Well, you said the formula was H to O. —Freddie.

Some of the occupants of the senior tables in the lunch room seem to be pseudo-seniors, or known in the good old days as mere frosh. Ah, seniors, how you have fallen.

This naturally leads to that immortal verse that runs: Hush, little senior, Don't be so bold, You're just a freshman Four years old.

Prof. Freud (trying to make himself heard): Order, please!

Junior Ch. E. (just waking up): Make mine ham 'n' eggs.

All our boyhood dreams crashed to pieces when Professor Stevens in his talk on railroads mentioned that the president of the line did not start out as the office boy.

The Deans' Office reports that a number of wealthy families are anxious to engage senior chemicals to test their liquor. See Mr. Kelly.

Forget-Me-Not

Not tokens of love from a shy maiden's heart, For which all youth does pine, But messages bearing, "Lest we forget" Are these "valentines" of mine. —F.F.S.

I told her there was a fool in every family and she asked me if I was an only child. —C.R.H.

How is Trognitz getting along? When I saw him last he didn't have a coat on his back. Poor chap, where did you see him? Swimming in the tank.

It is rumored that Professor Leigh claims that if all the golfers in the world were placed end to end they would encircle the earth and there would be six liars left over.

Prof.: Late again. Have you ever done anything on time? Don Williams: Sure—I bought a Ford.

Speaking of signs, what does the one in our local library mean? ONLY LOW TALK PERMITTED HERE —C.R.H.

During the Thanksgiving Recess

Son: Yes, Dad, I am a big gun now at Armour. Dad: Well, then why don't I hear some better reports?

Rather than remind you there are so many days till Christmas, or that you should break off with the girl friend, let us propound a puzzling question that has baffled us. Why is it that freight that goes by ship is called a cargo, and that which goes by car is called a shipment. Why? —A.I.

"Supering"

By H. H. Scheidemantel, '29, Ch.E.

(Ed. Note: Because of the wide and enthusiastic interest among Armour students in the "supering" positions available "back of the scenes" of the Chicago Civic Opera, the following contribution by H. H. Scheidemantel is published in the belief that it will be informative to those who have not had the pleasant experience of "supering," as well as aptly descriptive to those who are old friends of the opera stars.)

The cast of the Chicago Civic Opera Company numbers about 145, of which about 50 are principals, 70 are in the chorus, and about 25 are in the ballet. Some operas call for a large number of people who are to be soldiers, priests, or slaves. These supernumeraries, or supers, as they are called, are recruited from this and other schools of the city. The supers are supposed to be paid for their services at the rate of two tickets for five performances. The tickets are those that are left over from the public sale. Since so few tickets remain unsold most of the supers are never paid. Supering is, however, a pleasant occupation, and most of the supers are glad to take the knowledge they gain of the opera in lieu of pay.

Pleasant as it may be to hear an opera from out in front, it is in some respects much more interesting to take part in one. There is a fascination in being on the stage dressed in the queerest of costumes. For the time being one forgets tiresome calculus problems, and the data gathered in the physics laboratory that refused with irritating stubbornness to yield the desired results. For the time being one becomes a courtier in some long forgotten court, or a priest serving idols of a civilization long crumbled and buried in the dust.

The stage is much larger than one imagined, and an interesting place, with all its trappings; ropes by the hundreds, curtains, and galleries, and dozens of light banks, all strung around in an orderly disorder. The audience never realizes the intense activity that goes on back stage. A crew of stage hands is kept busy moving things about, either setting the stage for the next act or removing the properties of the last act. An assistant conductor peeps through a hole in the scenery and relays the movements of the orchestra conductor to the chorus singing off stage. Electricians stand before a huge switchboard pulling switches in re-

LETTER-BOX

ATTENDANCE AT GENERAL ASSEMBLIES

Letter to Letter-Box:

At the "pep" meeting for the Armour Crane basketball game, I noticed very few of the students in attendance. This is not a very good indication of school spirit.

I believe that the lunch room, library, and other rooms in the school should be closed during the time of the meeting. I also believe that we should have a so-called flying squad to direct some of the students to our assembly hall.

Let's get out about three or four hundred rooters, and probably we will be able to have the school band attend, and show other schools our spirit. Students of other colleges playing Armour have always said to me, "Where are all the rooters?" They are more surprised when they find that the admittance is free to them.

I suggest that we have a homecoming game with the whole school attending. A parade from the school to the Armory with the band at the head would show other schools that our school spirit is not entirely dormant. Edward J. Stehno, '31.

sponse to signals from somebody in the wings or in the audience. Stars wait for their cues at their entrances softly humming the arias they are about to sing. Their maids hover near them with wraps and boxes of make-up. Some few misguided supers waste their time trying to become acquainted with the girls of the ballet who condescend to answer in monosyllables. Men from the props department sort and count small props into special boxes built for them. The wig man goes about with his comb looking for stray locks to straighten. Supers are everywhere, constantly in the way. They are shooed from place to place when their curiosity to see all they possibly can makes them a nuisance to those who have much work to do. The entire atmosphere back stage seems to be one of high tension. There is so much work to be done, and so little time in which to do it that everybody concerned with the production of the opera is usually under an intense strain. All the audience sees is the opera proceeding smoothly, faultlessly, without unnecessary delays. Considering that this is the result of the combined efforts of a large number of people, it is a miracle. (Continued on page 4)

DEAN PENN RETURNS

(Continued from page 1) part of the locomotive resembles an ordinary hoisting engine. The boiler is of the multi-tube type patented in 1808 by Colonel Stevens.

The fuel was wood, as coal had not yet come into use in that part of the country. To eliminate friction, the wheels had no flanges, but two collars were built down from the body and pressed against the rails from the inside. The original speed at maximum was six miles per hour, but the Pennsylvania Railroad with tighter joints and packing has been able to obtain greater speeds to approximately ten miles per hour with this replica of the original engine.

The Inquiring Reporter

Question: Do you think that the Armour Engineer should be issued monthly instead of quarterly?

Clifford Romine, '29, M. E.: I don't think so. It takes a long time to get the material together which goes into the Engineer. If the editors were rushed, the articles would suffer.

L. Muller, '32, C. E.: Sure. The Armour Engineer keeps the students informed about engineering work going on outside of school, a very important point for a man desiring to become an engineer. It also gives room for news which is of a type which cannot be used in the Armour Tech News.

Ralph Lake, '32, E. E.: I think a better paper can be put out if it is issued quarterly. There is more news and more time for the publication of the magazine.

Thomas McGill, '32, E. E.: I think that if they could put out a paper every month which would be up to the standard of the last issue of the Engineer, it would be worth while issuing it monthly.

A. Augustine, '29, F. P. E.: No. With all the engineering features which go into it, the amount of work it involves is too great to have it issued every month.

A. E. Wierzbowski, '32, C. E.: If the Engineer were issued monthly, it would seem more like a bigger and better magazine, and compare more favorably with monthlies issued by other colleges.

R. Shoan, '30, Ch. E.: No. The Engineer seems to be having plenty of trouble getting the amount of material it has in it in the required time. If it were issued monthly, there would be just that much more trouble.

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Aero Exposition Is Leading Attraction Of City This Week

Gaudy Planes, Wonder Engines Feature

Brilliant, colored bodies, glittering propellers and black motors make a wonderland of engineering dreams of the International Aeronautical Exposition being given this week at the Coliseum, Greer building, and First Regiment Armory. All the modern types of planes are represented among the eighty-one air craft, with both American and foreign products sharing the honors of the exhibit. Huge crowds through the exhibits daily.

Perhaps the two most popular exhibits are the largest, and the smallest; one a huge Martin bomber, with a sixty-five foot wing spread, the other, a small "air flivver" to be built by the purchaser and costing less than two hundred dollars.

Among the notables attending the show are Eric Nelson, Leigh Wade, and Jack Harding, three of the "Round the World" flyers of several years ago; Margaret Stinson, famed woman flyer; Anthony Fokker, air plane designer and head of the aircraft corporation bearing his name; C. M. Keyes, chairman of the board of directors of the Curtiss Co.; Harry Gugenheim, millionaire aviation enthusiast; William P. McCracken, Ass't Secretary of Commerce.

A striking display is a two passenger sport plane of popular price, hanging high above the crowd, banked as if for a vertical turn.

A special post office for air mail has been installed by the U. S. Post-office department in the Coliseum building, which will accept letters to be sent by air mail to any part of the U. S. A special postmark is used to distinguish the letters from regular airmail letters. All of the large air mail contractors had exhibits.

All-metal planes were present, and also some of wood. Monoplanes and biplanes shared the honors about equally. All of the smaller planes and most of the larger planes had engines of the tractor form, instead of the pusher type. Radial engines of the air cooled type are the most common, although some cylinder in-line engines are displayed. Some of the engines with cylinders in-line were air cooled and some water cooled.

Special attention was attracted the showing of large and luxuriously equipped air liners, affording all the comforts of Pullman travel without the accompanying dirt, smoke, and jolting. There were also two large commercial planes, made entirely of metal, and manufactured by Ford, fitted out for advertising purposes. In comparison with these two behemoths of aviation were the small sport and pleasure planes for the private owner. At present there are over 4000 privately owned and operated planes in this country.

Motion pictures were plentifully used to show the merits of various products.

SENIOR CIVILS VISIT NEW WEST SIDE SEWAGE PLANT

Wednesday afternoon, December 5, the Senior Civil class made an inspection trip to the new West Side Sewage Treatment Plant under construction at 5200 West 39th street. This is one of the latest types to be developed. It will, when finished, handle sludge from the North Side Sewage plant. Professors Stevens and Wells accompanied the students.

H. H. Gerstein, '22, Assistant Sanitary Engineer for the City of Chicago, will speak to a meeting of the W. S. E. this morning at 11:30. His subject will be "Water Supply." The meeting will be held in Room B, Mission, according to Edward H. Moore, '29, president of the Student Branch of the Western Society of Engineers.

ANNOUNCEMENT

The Deans' Office desires to announce that the Christmas Holidays begin Monday, December 24, and continue through Saturday, January 5. No men will be excused from school, before or after those dates, for any reason. This means that men will have to be present at classes on Saturday, December 22, and again on Monday, January 7. The Institute will be closed between these two dates.

Civil Alley Raided In Huge Mass Attack

A prelude to the freshman-sophomore class rush held in the spring was enacted on Tuesday of last week when non-civils conducted a wholesale raid on "Civil Alley" in the basement of the Mission Building, in an attempt to push through the private quarters "en masse." Complications arose due to the fact that there were no distinguishing colors for the battlers, but this did not destroy the effectiveness of the fracas since the non-civils were all pushing in one direction and the civils in the other.

The Reason for the Attack

The reason for the rush as given by the non-civils was because the civils have recently prevented anyone who is not a member of the "Alley" from taking the short cut through the basement of the Mission Building. Hence, they gave warning to the civils that they would be raided at 10:30 on the day in question, and both parties to the fray turned out in large numbers.

The Civils' Explanation

The civils were asked the reason of why they prevented the non-civils from going through their quarters. The cause of their belligerency dated back to those first few cold days in November when non-civils began parading through the sanctum under the Assembly Hall and invariably felt the south door half open to let the wintry breezes cavort. The civils, with a view to their own comfort, decided to make all trespassers either close the door tight or go around the outside of the Mission. The door was still not awarded its due amount of attention by the intruders, so the civils took action and "tossed out" anyone who did not close the door. This antagonism progressed to the point where no one except themselves was allowed through the basement at certain times of the day.

The Value of "E" for Glass

The "Big Push" was progressing royally with the civils outnumbered but having the advantage of position with the aid of two old pianos. The attack was being conducted from both ends of the "Alley" with no advantage to either side when some curious Fire Protec who is taking Strength of Materials thought that the time was opportune to test the Mc/I value of the plate glass window in the disputed door. Evidently the results were disappointing and on attempting to determine the modulus of rupture, the specimen suddenly separated into several fragments. Immediately the attackers and the attacked decided that they had better attend the 10:30 classes, and everyone dispersed, with the civils claiming the victory since no aliens passed through the "Alleys." At 11:30 a new glass was in the door to keep the quarters warm.

Apropos the incident, Professor Leigh could not refrain from voicing his reaction toward the serious possibilities presented by the clash: "If the electricals had broken the window in the basement of Armour Mission, it would have been a current event, but you can not get a civil word out of those who did it!"

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Edison Man Tells Of Opportunities

T. G. Le Claire, Field Engineer of the Edison Company and Secretary of the Chicago Section addressed a meeting of the A. I. E. E. Monday, Nov. 26, 1928, in Science Hall. Mr. Le Claire, a graduate of the Engineering course at Idaho University and of a course at General Electrical Co. of Schenectady, spoke on "Opportunities in Engineering."

"Absolute faith in the future of Electrical Engineering and Keeping in touch with the engineering societies are elements of success in the engineering utility field," said Mr. Le Claire. The first reaction of the student after graduation is to revolt against the great amount of detail work required. Mr. Le Claire advised that honesty, enthusiasm and optimism are the qualities for success and advised all men "to stick to it."

FRATERNITY NOTES

Beta Psi announces the initiation of three of last year's pledges; Richard Stevenson, Walter Breh, and Wilbert Deering, also the pledging of Alton J. Jungels and W. M. Miran.

The Theta Xi's will give a dinner and dance at its house on Sunday, December 16.

Phi Pi Phi announces the establishing of the Rho chapter at St. Lawrence College, Canton, N. Y.

The Phi Pi's opened their basketball season with a 43-11 victory over Barry Memorial on Wednesday, November 28.

FROSH SMOKER WEDNESDAY

(Continued from page 1, col. 1) of Engineers are located on the 12th floor of the Engineering building, at Wacker drive and Wells street. Other members of the committee besides Chapman are H. Hendricks, P. Abrahamson, R. Fairbanks, and F. Ollison.

Holland Tunnel Topic Of Morgan Park Talk

"The Holland Vehicular Tunnel," was the topic of a talk given by Professor J. C. Penn, Dean of Engineering, to the members of the Physics-Chemistry Club of the Morgan Park High School yesterday afternoon. This organization is composed of students who are taking Physics and Chemistry, and who are especially interested in learning more regarding the practical sides of these fields.

Dean Penn's speech dealt chiefly about the part these subjects played in the construction and maintenance of the tunnel. This bore, connecting Manhattan and New Jersey, consists of two tubes, each of which carries two lanes of traffic moving in the same direction. Although in operation for only a little over a year, it carries 25,000 cars daily, about twice as many as estimated.

From an engineering viewpoint, the most important problem in maintaining the tunnel is that of ventilation. The system constructed provides fresh air at all times and carries off the fumes of the automobile exhausts.

Student Talent Is "Engineer" Feature

(Continued from page 1, col. 4)

C. G. Anderson, '30; F. C. Ong, '29, Assistants.

B. H. Roffee, '30; C. E. Morris, '30, Assistants.

L. P. Brown, '29, Business Manager.

C. J. McDonald, '29, Circulation Manager.

H. H. Stebbins, '30, Assistant.

R. L. Picchetti, '31, Assistant.

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Cycle Still Needs Soph Assistants

More Sophomores and Freshmen are needed to act as assistant editors to aid in the publication of the Cycle. Students who are interested can get information from the editor, Boyden W. Hindman, '29, E. E., or from any of the assistant editors.

Photographs, which will be an important feature of this year's Cycle, are needed by Philip S. Kjellgren, Photography Editor.

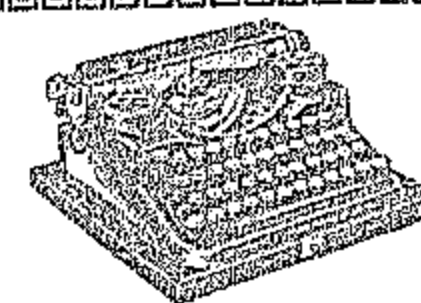


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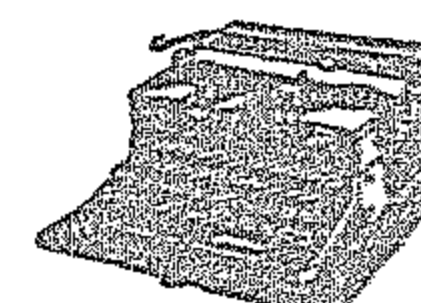
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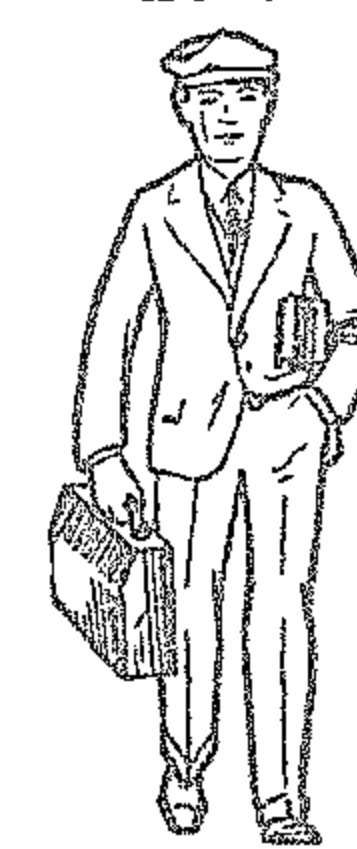
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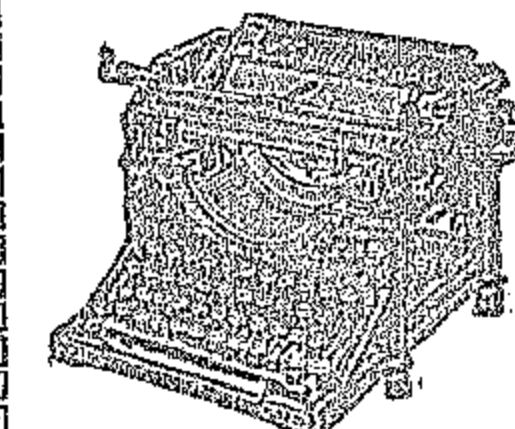
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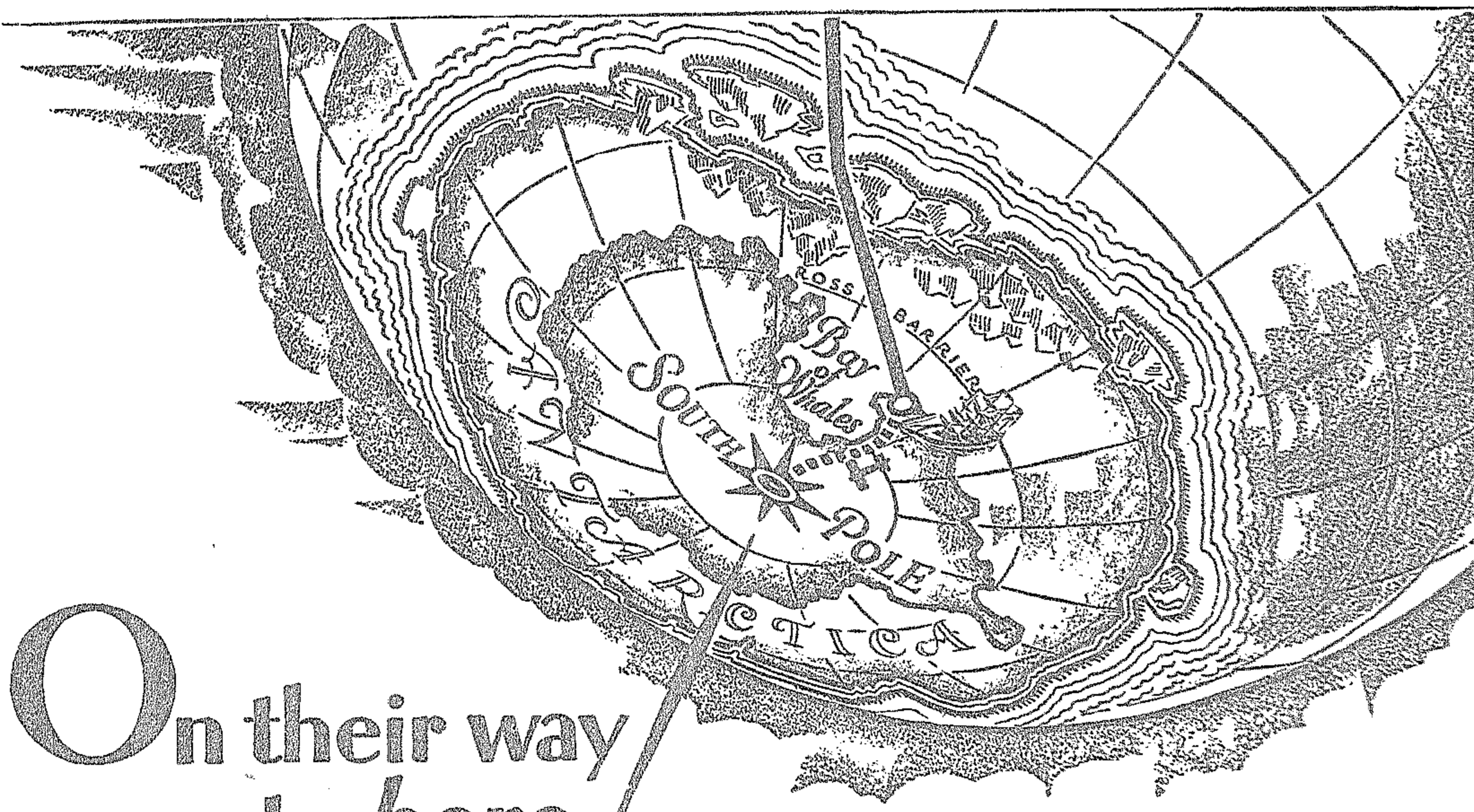
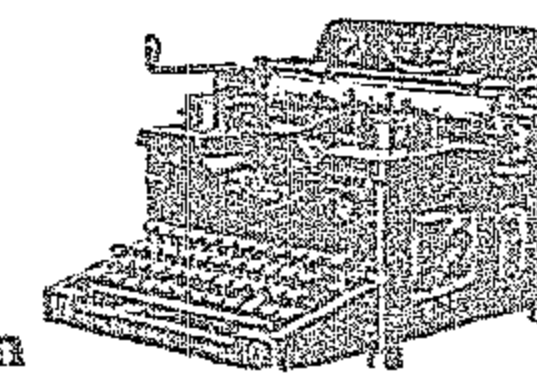


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TECH TEAM SET FOR GAME WITH IRISH, MONDAY

Basketball Men Ready To Trim Opponents At South Bend

ARMOUR TO UPSET PRECEDENT

If Armour can play with the same reckless abandon which has characterized many of its games in the past, its chances of trimming Notre Dame Monday, Dec. 10, on the South Bend oblong loom up with great probability. If previous scores mean anything, the local outfit will find themselves on the wrong side of the ledger. Past scores don't mean a thing to the present game—it's the score at the end of the game to be played that carries more weight than a dozen records.

Armour's willingness that Notre Dame should be beaten is brought about by the fact, that in all the games with that famous institution, only in one particular instance did the home cagers come within speaking distance of beating their Indiana rivals. But the Irish can be beat. This has been evidenced in recent upheavals in the football dope when Notre Dame's rivals were thought of as set-ups, but reversed the predictions when the final scores were posted. Thus if their football ability of the past season is any criterion on their basketball skill, Tech will come home with a long sought for win.

The home cagers will leave for South Bend at noon on the day of the game. Now wouldn't it be a real idea to back the team with a few rooters for that important struggle? Cal Johnson, basketball manager, announces that if we get enough fellows to make the trip there is a possibility of having a private car. So fellows, speak up, and let's give the team a little backing. Those making the trip by car should aim to leave about 3 p. m. in order to be on hand when the gun goes off. The game will be called at 8 p. m.

The probable lineup will be Capt. Johnny Manz and Augie Augustine at the guard positions, King Simpson and Bill Tell at forward, and Clare Robin at center. It is hoped that King's ankle will have mended sufficiently by then that he will start the game. Other men who will see action are Stan Ott, Norval Ewing and Jimmy Fee.

Grid-Iron Queries

By Professor John J. Schommer

(Ed. Note: Professor John J. Schommer, conference umpire, and leading authority on football, will answer through this column, any questions on football which are puzzling our readers. Questions should be dropped into the NEWS contribution box, located on the first floor of the main building.)

Question 13: How do the teams decide which team shall kick off at the commencement of the first and third quarters, and which goal to defend?

Answer: Referee tosses a coin. Winner of toss has privilege of choosing one of three things: goal, kicking off, or receiving. At the opening of the third quarter the situation is reversed; then the loser of the toss at the beginning of the first quarter has first choice.

Question 14: Which team has the choice of kicking off or receiving after a touchdown has been made?

Answer: The team scored upon has the choice of either kicking off or receiving.

Question 15: If the umpire or timekeeper shoots his gun, announcing the end of the game while a man is running for a touchdown, is that man allowed to complete his play and will his team be given time to make kick for extra point?

Answer: Yes.

Sunday School Teacher: "Who was it that saw the hand-writing on the wall?"

Bobby: "The landlord." —C.R.H.

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Techs Humbled By Crane; Score 42-15

(Continued from page 1, col. 6)
Crane's well-oiled offensive and smooth working defense gave evidence that they were in fine shape.

Miss Free Throws
The consistency which our local talent missed gift shots was really appalling, and will shed considerable light on their apparently low collection of points. At one time there were a total of 5 consecutive free throws that missed their calling. In all there were some 10 or 11 that went astray.

This is the first time in 3 years that Crane has subdued Armour. Their team was good, and considering that two of Armour's best bets at the forward position are out indefinitely it is perfectly safe in saying that they deserved to win.

The opening of the game was occasioned by a series of fouls on both sides. The eagle eyes of both Referee Glick and Umpire Stanger interrupted play at numerous times in administering penalties to erring warriors. Armour took advantage of only one of these early opportunities while their West Side rivals completed 4.

In all Armour fell the victim to 6 free gifts to Crane which they garnered a total of 7 via the same route.

Considerable substitution was resorted to as the game wore on, Crane employing a total of 13 men and Tech 10. Tell, Augustine and Manze played brilliantly while Lutz, Golan and Farber drew the spot light for the Cranemen. Simpson saw service despite a bad ankle, showing promise of being in 100 percent shape for the Notre Dame tussle.

"SUPERING"

(Continued from page 2)
ber of people the high quality of the product displayed by the Chicago company indicates the efficiency of the organization.

Another interesting phase of supering is the glimpse of stage life one gets, that is, one sees the actors when they are not acting. The public seems to consider artists of all kinds as being just a little bit peculiar, with some of this peculiarity manifesting itself in the form of temperament. That portion of the public that gets its examples of temperament among people of artistic bent from newspaper accounts consider temperament an affectation on the part of the artist who is merely seeking publicity. No doubt sometimes this is true, but what the public fails to realize is that while the artists appear before them smiling happily they are really hard at work. Some little appreciation of the strenuous nature of their undertaking is gained by seeing them at close range when they are not on the stage.

Dean Palmer Speaks At Lindblom High

Dean Palmer will address the prospective engineering students of the Lindblom High School tomorrow, and will explain the outlook for persons with an engineering education. His talk will consist of a short outline of this field, its importance in present day industry, and the prospects for its future.

Natators Face Normal College Wednesday

The swimming season will be officially opened on Dec. 12 with the Tech mermen facing Normal College at Normal. The meet is scheduled for 3 p. m. and promises to be a closely contested affair.

In order to get a general line-up for the team, time trials will be held Dec. 6 at the U. of C. Any member wishing to be eligible for this first meet should not fail to appear. Captain Trognitz speaks highly of the team's chances with Normal, an old, traditional rival.

Boxers Card Seven Bouts For Season

A tentative schedule of bouts for the boxing team has been announced by Coach Garbett. These matches will not start until next month, so that the remainder of the year will be spent in the gym passing the time with an occasional workout. The schedule as proposed follows:

- West Side Prep School "Y" at Armour, Jan. 14.
- South Chicago "Y" at So. Chicago, Jan. 26.
- West Side "Y" at Armour, Feb. 4.
- West Side Prep School "Y" at West Side, Feb. 16.
- South Chicago "Y" at Armour, Feb. 25.
- West Side "Y" at West Side, Mar. 9.
- Culver Military Academy at Culver, March 23.
- Bloomington "Y" at Bloomington, Ill., April 6.

At the present time the probable members of the first squad are Capt. Larkin, Buehling, Whitfield, Jammer, Briggs, Bryant, Nelson, Hallen, Goodheart, Sandstrom, and Svardloff.

ARMOUR TECH RIFLE CLUB

In a rifle match held Nov. 27, 1928 between Lane Tech and the Armour team, the following scores were turned in; giving the match to Lane Tech by a lead of 50 points.

Armour—	Stand.	Prone	Ave.
L. Statkus	61	92	82.
S. S. Pulaski	61	92	76.5
R. A. Hess	57	92	74.5
D. Garen	60	83	71.5
S. Janiszewski	51	68	59.5

Total Points, 728.

Lane Tech—	Stand.	Prone	Ave.
S. Patla	92	89	90.5
W. Skatchke	88	88	88.
R. Whitlock	70	87	78.5
O. McCaslin	50	86	68.0
C. Urbas	50	78	64.0

Total Points, 778.

All the above scores are based on a possible 100.

A return match is to be held next week at the Armory at 34th St. and Wentworth where a better showing is expected.

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Campus Club Basketball Team Organized

A basketball team is being organized by the Campus Club, and the indications are that the fraternities will have some very interesting practice games. Juergensen, Ewing, and Dawson will furnish plenty of competition. D. Garen is managing the team this year.

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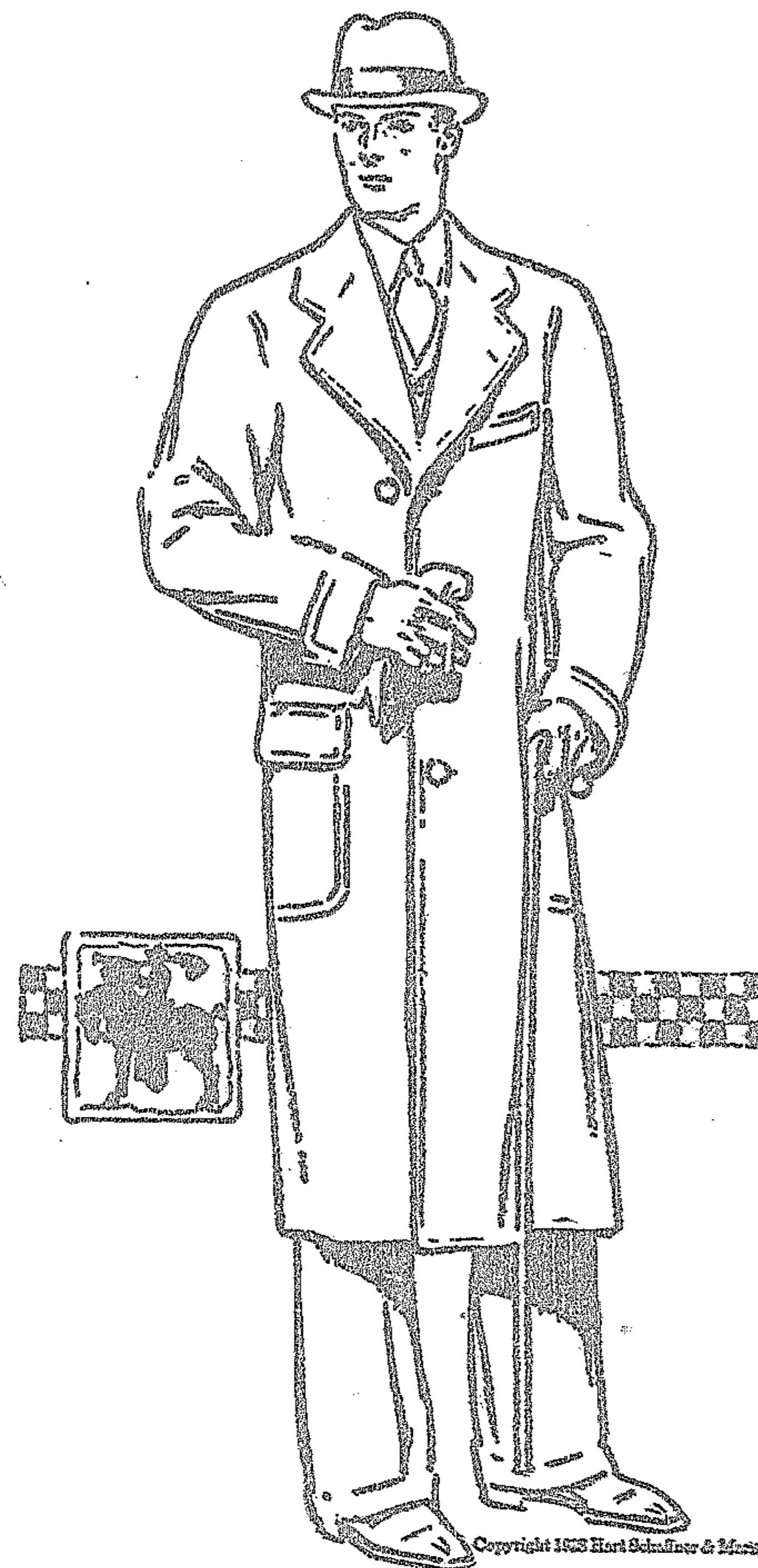
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