

FRESHMEN:
ATTEND YOUR
SMOKER!

Armour Tech News

SEE VARSITY,
ALUMNI PLAY
TONIGHT

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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 consideration 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 Amstary. 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)

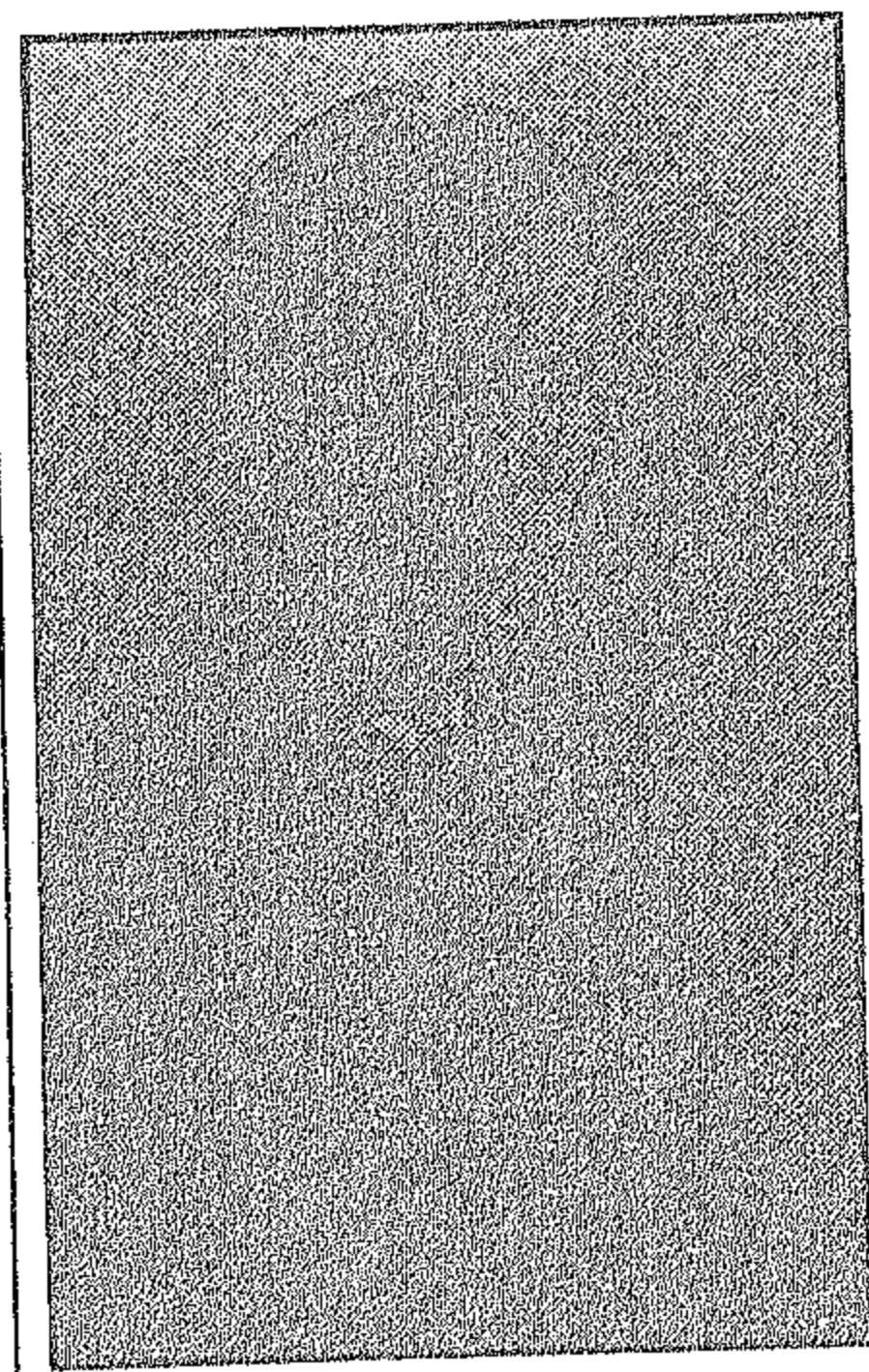
New Air Navigation Method To Be Taught

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. Freud 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 onto an alundum 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)

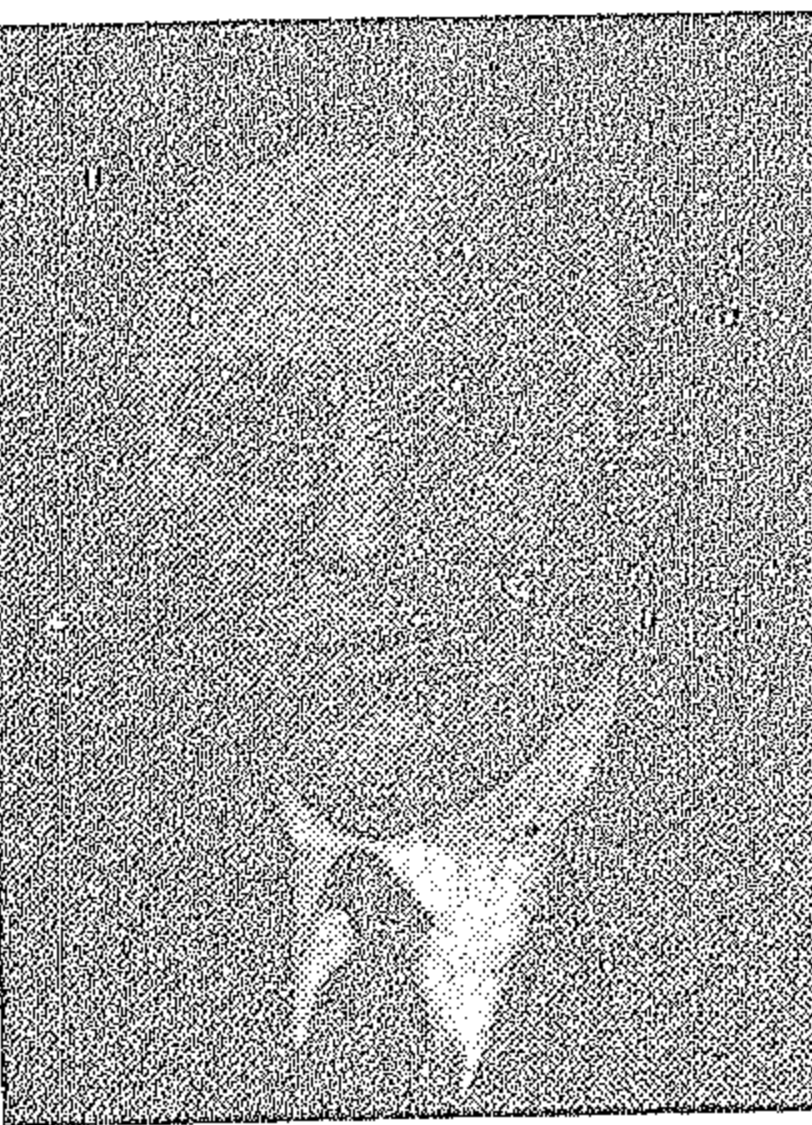
STUDENT MASS ASSEMBLY SCHEDULED FOR NEXT WEEK

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 decolorate 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 Crane men.

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 portions, 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!