

FRATERNITY NOTES

THETA XI

Alpha Gamma Chapter of Theta Xi takes pleasure in announcing the pledging of

M. A. Collick, E. E., '33
G. L. McKibben, M. E., '35
Brother Davidson, executive secretary, visited the chapter during the week before the holidays. After his visit, he made a very favorable report on the condition and standing of the chapter. Pledge Brother Adair is now living at the house.

There will be a Radio Dance at the chapter house on next Saturday night. This will probably be the last social affair before the mid-year ordeals.

SIGMA ALPHA MU

A highly successful get-together of both fraters and their parents was held at the Sigma Alpha Mu fraternity house the evening of Dec. 28, 1931. The party was attended by a large group.

PHI KAPPA SIGMA

At the meeting of Dec. 14, 1931, the following men were elected to their corresponding offices:

H. S. Hendricks—President.
C. K. Simons—Vice President.
M. W. Soldal—Secretary.
F. S. Beale—Treasurer

On New Year's Eve a formal House Party was greatly enjoyed by the actives and alumni in the Chicago area.

TRIANGLE

The election of Alumni officers was held before the holidays. The following men were elected:

S. Streeter—President.
H. Christiansen—Vice-President.
W. Reinert—Treasurer.
H. Hoff—Secretary.
E. Benson—Member.
C. Ruetter—Member.

The annual Snow Ball was held after the closing of school. The affair was a great success despite the fact that its namesake was absent.

Palace Theatre Host To Junior Electricals

Tuesday, December 29, the Junior electrical class held their first social function, a theatre party at the R. K. O. Palace Theatre.

Boys will be boys and college students will cause riots, but an Armour man is always an Armour man. And, yea, verily, did they so conduct themselves on that memorable Tuesday after Christmas. Out for a really hot time they first passed out data sheets in front of the theatre and while waiting for a few lagging members held a class in laboratory technique on the curbstone. They all took turns at being teacher, each holding that right honorable office until stamina gave away as a result of the incessant fire of questions and taxicabs.

In the theatre they conducted themselves like gentlemen. They sat in the balcony, of course, but could find no sophomore to toss over the railing. A couple of the fellows who live out in the woods thought this was the "swellest barn they ever were in."

The feature picture was one of the good old melodramas with plenty of dark stormy nights and a last minute rescue which had everybody clutching the edge of their seats. Lew Ayres was the hero of this story and gave a very fine performance in his rather difficult role of a river boat captain's adopted son.

Horace Heidt's Californians provided most of the laughs that night, proving themselves very versatile and revealing a musicianship which soon won the admiration of those engineers who can also appreciate good music. All were agreed that the evening had been a successful starter for the new junior electrical social project.

MUSICAL CLUB PICTURES

Pictures of the musical clubs to be printed in the 1932 Cycle will be taken Wednesday, January 13, in the Assembly Hall.

All members must be present in white trousers, blue or black coat, and black bow tie. Roll call will be taken in the Glee Club.

'DIESEL ENGINES' SUBJECT OF TALK TO MECHANICALS

Mr. L. Winbolt, a senior student, spoke at the last meeting of the A. S. M. E. His subject was "Diesel Engines."

In the last few years engineers have made great strides forward in the development of the Diesel engine. Because of its general construction and mainly because of the fuel burned in an oil engine, it is a slow speed engine.

In one type of oil engine, there is the compression stroke where the air is compressed to about 550 pounds per sq. in.; then the fuel valve is opened and the power stroke takes place. At the end of the power stroke, the piston uncovers some parts through which a blast of clean air is admitted, forcing out all the exhaust gases and filling the cylinder with clean air for the next compression stroke. There is no spark used in an engine of this kind, combustion taking place due to the high temperature produced by compression.

The fuel consumption of a Diesel engine compares favorably with that of a gas engine, but fuel oil is much cheaper than gasoline. During a test run of a Diesel engine mounted on an automobile chassis over a distance of 3000 miles, the average speed was better than 40 miles per hr. The cost of a Diesel is about one third of a cent per mile in comparison with one and a third cents per mile of a gas engine.

The universal use of Diesel engines in automobiles will probably not take place very soon because the price of fuel oil would go up, thus greatly affecting the owners of large stationary Diesel engines.

The use of a Diesel engine in a ship is very economical for there are no stand-by losses as there are with steam engines. The storage space for fuel oil is only 25% of the space used for coal bunkers, and 40% of the space used for oil burning ships. The Diesel engine takes skilled men for operation, and for that reason the change from coal burning to oil engines is slow.

Friday, January 15 there will be a special A. S. M. E. meeting at which time Mr. Ralph E. Turner, Managing Editor of "Power Plant Engineering," will speak on "Advancements in Generation of Power." All students interested are welcome.

A. I. E. E. Features Automatic Control

Friday, December 18, the last day before the Christmas holidays, a meeting of the A. I. E. E. was held at Science Hall in which were featured three reels of motion pictures donated by the General Electric Company.

The subjects covered were:
1. Automatic sub-stations (rail road service).
2. Automatic sub-stations (general service).
3. Vacuum tube synchronizing equipment.

A written explanation accompanied the films and did not necessitate a speaker. The subject matter of the three reels was brought out by a guide, just as if he were conducting an inspecting trip through the various stations and pointing out the important details.

Automatic control, as was vividly impressed upon the A. I. E. E. members, meant automatic control in the fullest sense, all operations being performed without human guidance. Plant attendants were necessary only for the upkeep of the equipment.

From stand-still the equipment is brought into full operation through the use of relay equipment which automatically starts or stops, cuts in or out of circuit the necessary equipment to supply the load at all times, variable as it may be. All equipment is protected by circuit breakers and over-load devices which prevent any of the apparatus from carrying excessive currents. An outstanding feature is that in case of complete stalling of the entire system, the automatic control will start all equipment functioning properly within two minutes time.

Animated diagrams were used by the motion picture guide to make simple the tracing out of the exceedingly complicated circuits.

Inquiring Reporter

Question—What did you think of the work of the Armour Players?

R. D. Armsbury, Ch. E., '35—I was quite surprised with the whole play. It was well acted and the plot was very exciting. Make the next play a humorous one.

W. Krause, E. E., '34—I thought that the play was very good. Make the next a bigger and better one.

W. A. Grosser, E. E., '32 — The play was quite a success, and I think the work of the Dramatic Club should be exhibited more often. Those who took part certainly deserve much credit.

C. A. Cunningham, F. P. E., '34—By the manner in which the first play was presented, one can see that the club will be a success. Armour needs a Dramatic Club, and I sincerely hope the boys will keep up the good work.

A. R. Viel, Ch. E., '32—This excellently, well-performed sample of a much-needed activity was most entertaining.

George Adrian, F. P. E., '34—The play was a knockout. More and longer plays are needed at Armour Tech.

B. M. Kostenko, C. E., '34—I enjoyed the play very much. I went to see it expecting to have to make allowances for the first effort of the Dramatic Club but as soon as the play started it was easy to see that it was going to be a success. The characters were very well portrayed

and were convincing. The Dramatic Club should give us a chance to enjoy another play soon.

R. McFarland, Ch. E., '34—To me the play was a welcome addition to the usual Christmas Concert and a most welcome surprise. I hope that the next play will be of a humorous nature or else as exciting as the last one.

Allen H. Helmick, Ch. E., '33—I think the members of the club should be congratulated on their success. The play was well acted and showed the results of good directing.

E. D. Anderson, C. E., '33—I think that the acting of the members of the Dramatic Club was up to the standards of most colleges and that they deserve as much praise as can be given. I hope to see this club develop into a permanent organization.

Walter C. Breh, E. E., '32—Having been fortunate enough to view the first play, it is self-evident that with the type of material and splendid direction available the Dramatic Club will fill a much needed want in collegiate affairs.

V. Hedlund, E. E., '35—The play was very interesting and well-acted with the exception that the actors did not talk quite loudly enough.

H. Kreisman, M. E., '34—Considering it was their first performance together, the actors did very well.

D. Peterson, C. E., '35—The lighting effects were excellent and the play kept one in suspense until the end.

CYCLE PICTURE SCHEDULE

9:30	Senior Officers—Gymnasium.
9:36	Junior Officers—Gymnasium.
9:44	Junior Social Comm.—Gymnasium.
9:50	Sophomore Officers—Gymnasium.
9:56	Sophomore Social Comm.—Gymnasium.
10:05	Freshmen Officers—Gymnasium.
10:10	Freshmen Social Comm.—Gymnasium.
10:15	Varsity Basketball Team—Gymnasium.
10:35	Swimming Team—Gymnasium.
10:42	Boxing Team—Gymnasium.
10:50	Campus Club—Gymnasium.
10:56	Press Club—Gymnasium.
11:02	Truss Club—Gymnasium.
11:10	Armour Radio Asso.—Gymnasium.
11:15	Rifle Club—Gymnasium.
11:20	Tau Beta Pi—Gymnasium.
11:26	Sphinx—Gymnasium.
11:30	Eta Kappa Nu—Gymnasium.
11:36	Scarab—Gymnasium.
11:42	Phi Lambda Upsilon—Gymnasium.
11:48	Chi Epsilon—Gymnasium.
11:54	Salamander—Gymnasium.
11:56	Pi Tau Sigma—Gymnasium.
12:02	Alpha Chi Sigma—Gymnasium.
12:08	Pi Nu Epsilon—Gymnasium.
12:12	Honorary Fraternity Council—Gymnasium.
12:16	Interfraternity Council—Gymnasium.
1:15-1:40	Musical Clubs—Assembly Hall.

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