

### A.I.E.E. Proposes Trip Through East

At a meeting held last Friday the A.I.E.E. discussed the desirability of a W.S.E. branch here at Armour which, according to a proposed plan, will be maintained by all of the existing engineering society branches of the school. A week from next Friday a final discussion and a formal vote on the matter will be held.

Chairman A. M. Zarem stressed the importance of mingling with engineers of other fields. A W.S.E. branch, Zarem pointed out, would offer opportunities for such a more versatile engineering education. Booklets entitled "A Pattern for a Local Engineering Society" have been distributed among the electricals and should aid in clarifying any questions to the reader. The booklets outline the background and purpose of the society, which is composed mostly of engineers from the Chicago region.

In order to prevent the last minute confusion of Open House which has existed in years past Zarem requested that the A.I.E.E. begin to give serious thought to the affair. As in the past, the A.I.E.E. will set up and manage most of the electrical exhibits with the supervision of faculty members.

The A.I.E.E. is seriously considering an industrial inspection trip through the east and the New York Fair. A committee was appointed last Friday to investigate the cost and itinerary of such a trip. The committee is composed of R. Kotal, J. B. McCormack, T. F. Quarnstrom, and V. Terp. The trip, if found feasible, will be taken sometime next semester and will take about two weeks, according to present plans.

### Tech News' Banquet Date Set for Feb. 9 in Union

This year the *Armour Tech News* will hold its banquet at the beginning of the semester; the date being February 9.

R. I. Jaffee is in charge of arrangements for the banquet which promises to be the best in recent years. Because of the short period in January, the banquet has been scheduled for the first week of the new semester, at which time all members of the staff will be able to attend. Once each year a banquet is given for members of the staff, at which time speakers are presented, movies shown, and the installation of the incoming editors.

### A.S.M.E. Learns of 'Crazy Gears' from Research Engineer

"Crazy Gears," was the subject of H. E. Goldber, research engineer of the Miehle Printing Press and Manufacturing Company, at the meeting of the A.S.M.E. last Friday, at 10:30 a.m., in Science Hall. Mr. Goldber is a graduate of the University of Chicago and received fellowships in mathematics and chemistry. He was employed by several large companies for many years previous to his present position with the Miehle Company.

Using a pair of the "crazy gears," which he designed for use in a printing press, to illustrate his lecture, Mr. Goldber explained the design of the gears was calculated to obtain the exact and proper desired motion. They are built to conform exactly to that design. This method of design was started and developed by Mr. Goldber.

To accomplish this feat, Mr. Goldber had to use plane trigonometry, plane geometry, simple algebra (involving three linear equations with three unknowns), higher algebra (cubic equations), analytical geometry, differential calculus, integral calculus (elliptic and hypoelliptic), finite difference, calculus of variations, and differential equations. "This shows," explained Mr. Goldber, "why an engineer studies mathematics."

To explain why this method was developed, Mr. Goldber showed that in automatic machinery, the motion of various bodies is usually obtained by motion from driver to follower. The driver is usually assumed to rotate at uniform speed and the follower is given some definite motion, ordinarily rotation at uniform speed. If the follower motion is to be rotation at uniform speed, ordinary circular gears are used. If, however,

### PLAYERS—

(Continued from page one)

cues with all the ease and polish of professional performers. Staging, directed by Ralph Erisman, in the revamped auditorium was, of course, ingenious beyond the usual run of amateur productions which lack the skilled touch of engineer and architect.

This play was one of the first modern presentations designed to stress a situation and not a central character, to be played by a "name" actor, to the corresponding joy of the man in the box-office. There were nominally three leads, Captain Stanhope, Lieut. Osborne, and 2nd Lieut. Raleigh upon whom the action hinged, and all were capably portrayed. The terrific strain that led to madness unless one was of stolid temperament, as Lieut. Trotter, or steeped in alcohol as Captain Stanhope, was convincingly shown.

The remaining supporting players, neglected as usual, and upon whose performance the entire realism of a play depends, were: Tom Hunter (Mason); Robert Jaffee (Hardy); Arthur Hansen (Colonel); Sidney Silverman (Sergeant-Major); George Hanneman (German Soldier); and Charles Schultz (Soldier).

It was the general consensus of those present that Leon Epstein as Trotter "stole the show." He brought out his bluff, hearty lines, with realistic, and sometimes comic, gusto. It is rumored, however, that his cigar smoking scene was not mere acting. He really felt the effects.

To Mr. Christopherson, serving his term as advisor and director, goes essentially the entire credit. This most recent production within the memory of current students, wins over many of the recent "Players" productions.

The follower is to be rotated at non-uniform speed, many devices are used. Very often the designer cannot produce the desired motion and must resort to the best approximation to that motion. By the use of rollercurve gears, the follower can be given almost any desired motion, thus obtaining the best condition.

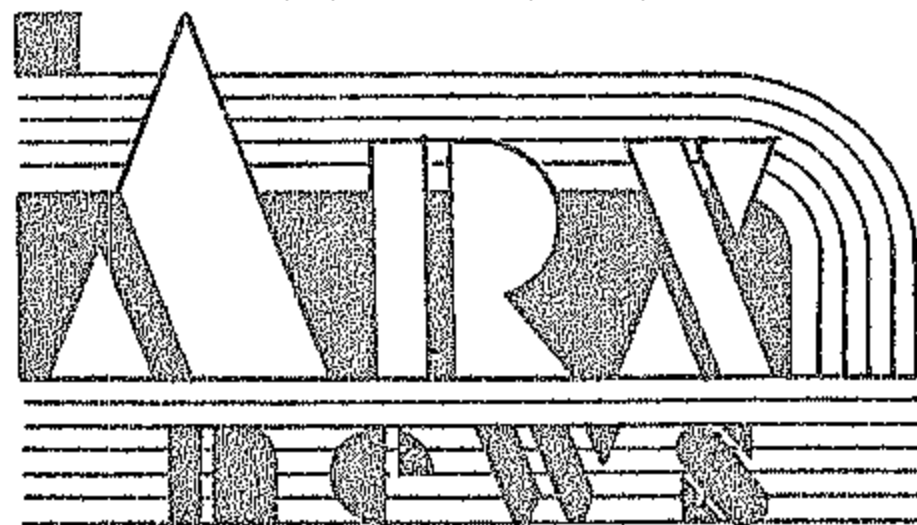
### Freud Offers New Chem Plan

In accordance with the growing feeling that the present inflexible college courses allow no variation in treatment of the students despite diverse levels of capability, Freud, Wasley, and Manley have introduced into the chemistry courses a system whereby the more capable students may advance themselves more than was formerly possible.

Prof. Freud's plan offers greater freedom in laboratory work to selected students, allowing those men who have showed ability in organic lecture and laboratory courses to proceed at the speed of which they are capable rather than that dictated by a course designed for the greater number of average students. The lab work for the selected men will be an introduction to research, affording the opportunity to prepare compounds not usually met with in the ordinary laboratory course, but of industrial and scientific interest. One of the students is working on the preparation of methyl carbinol for use by Dr. Komarewsky. Others are preparing compounds to be used in research on wetting agents.

The preparations will be under the supervision of Dr. Freud and Dr. Wasley but will necessitate reference to the literature, thus promoting familiarity with original sources of information. The six students working under this plan at present are S. O. Falk, C. McAleer, J. E. Meinhand, J. W. Smith, K. H. Myers, and J. T. Waber.

Dr. Manley's freshmen are being given an opportunity to do extra work in inorganic chemistry. An advanced class of about 20 outstanding students will meet every Friday to consider in greater detail some of the work of freshman chemistry. The members will write special reports on an assigned topic. One report is to be read and discussed each week. At the first meeting last Friday the subject was ionization, and the Broensted-Lemar theory of acids and bases and the Debye-Hueckel theory of ionization were discussed.



*It seems as though all of the Arx survived the holidays. I guess they all had a good time, for JOHNNY REA, alias Art Gum, had a hearty smile on his pan; L. JOHANSON wished me a happy New Year; ERICKSON, SPEYER, HUTTON, FOX; in fact the whole — bunch seemed to have been most favorably affected by apparently a joyous holiday vacation, when I first saw them last week. I now surmise that what we needed was a good vacation like those two weeks; in fact, ever since the first of October, we could have used it.*

We hear that all of ye Arx had a good time... even Erickson, for he was way down south in New Orleans.

Quote: mmm! Unquote. Translated he said, "Those gals are mmm." It's the real thing this time, they're going to write each other twice a week. My, my, young love is truly 'sumpin'.

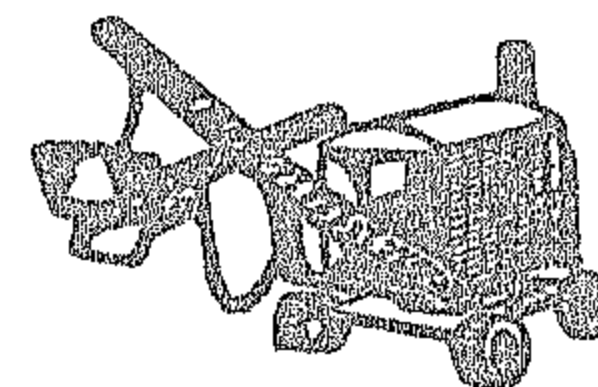
During the vacation I found that we have quite a noble family represented in our Arx group. It seems as though way, way back in Ireland Miss Rawl's male ancestors were chosen for members of the King's Guard because they were "soooooo beeeeg and s-t-r-o-n-g." Nice, eh!

Misc.: Burnham dropped in, and he and your columnist compared notes. Armour stands up very well... Morris Beckman passed his state examination last year; congratulations... Lindhal was delegate at convention in New Orleans, a good time was had... Scarab convention to be held in California in June, four or five are expected to go.

I leave with two more weeks 'til vacation; what a life, if it only could keep up this way.

BOZ-ARTS.

### Steam Shovel



The school social season started off with a bang (and I mean a big bang!) last Friday night when the boys commonly known as the "Armour Star Hams," but "hams" no longer, put on a great show doing "Journey's End" before a packed house in the auditorium of the Student Union.

Bob Jaffee was the lead-off man in the lineup, and his appearance at the opening of the first act was followed closely by Charlie McAleer. The six-foot-four inch cook made his appearance shortly as Tom Hunter came sauntering on the stage with bowls of soup in each hand.

Leon Epstein, who it is reported never smoked cigars before, was required to in the play and really seemed to enjoy himself. Maybe he was sick, who knows?

Dixie (from the south, suh!) Duncan successfully carried the burden of the cowardly Lt. Hibbert. The big bully of a sergeant-major who roughly treated the little German boy was played by Sid Silverman. The German boy was portrayed by Dick Hanneman.

THE COLONEL (SLUR THE WORD, SUH!) WAS GRIPPINGLY ENACTED BY ART HANSEN. HOWEVER, HIS BROKEN GERMAN WAS REALLY BROKEN!

At the dance following the play, Don Charleton and his orchestra furnished the music. His "sweet sweeping swing" was not enough to coax "Doc" Cutlin out on the floor with his 17 year old "glamour girl." Don't get married on us, Doc!

Will Fridstein please keep awake

### Proposed W.S.E. By-Laws Unsatisfactory to F.P.E.S.

A business meeting of the Fire Protection Engineering Society was called to order by President Hoffman. The first order of business was the treasurer's report. To this he added an announcement urging the prompt payment of dues. Mr. Morrison, the secretary, read the minutes of the previous meetings, giving a summary of each lecture given before the society this semester.

Dispensing with the old business, a smoker to be held in the Student Union was then discussed. Ed Swanson suggested the smoker be held the first part of the second semester and that all the first year Fire Protects be personally invited. It was brought out that the society desires especially the interest and support of the freshman members of the fire protection course and hope to establish this through the smoker.

Discussion upon the joining of the Western Society of Engineers was then led by Tom Hunter. He stated its possible advantages and the principals of the organization. The assembly after much debating voted that it favored the idea, but disagreed with the proposed by-laws.

during glee club rehearsal. Mr. Erickson gets tired waking him up every Thursday night. Well, he's interested in the glee club, anyhow.

The boys did a bit of traveling over the Christmas holidays. The main point of interest seemed to be Texas, with Erisman, Yeager and Wessis among those who made the trip.

Social note: Jack Clark and Fred Holle, among others, made mud pies last week in the cement lab. Get your recipe from them.

Save your pennies, boys. The annual sophomore dance comes off in February at the Medinah Athletic Club, with the Junior Formal following in March, at the Congress Casino. Also, next month is the Co-op dance in Mission.

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