



MUSIC AND DRAMATIC CLUBS COMBINE THURSDAY TO GIVE ANNUAL CHRISTMAS CONCERT

**Musical Potpourri To Have Pieces From Band,
Glee Club, Stresses and Strains,
And Orchestra**

DRAMATIC GROUP TO GIVE ONE-ACT PLAY

True to the annual custom of having entertainment by the musical organizations just before the holidays, Armour will present a concert in the Assembly Hall, Thursday, from 10:30 to 12:30. In addition to the various musical clubs, the new Dramatic Club will make its debut.

The program, which is planned to have appeal for all, will start promptly at 10:30. Considerable thought and work was necessary to arrange the sequence so that all of the organizations as well as the Dramatic Club might appear on the same bill. The program is printed on page 2, and it will be followed faithfully if all goes well. Those responsible for the management of the concert are the officers of the Armour Musical Clubs which follow:

President—J. E. Walker.
Vice-President, J. S. McCall.
Manager—E. W. Carlton.
Secretary Treasurer—T. A. McGill.
Faculty Advisor—Professor C. W. Leigh.

Violin Solo to be Played

It has been the aim of those in charge to have a novelty of some sort from each organization. Thus a violin solo by Philip Korrell will be a feature of the orchestra. Stresses and Strains will synopate on "Goofus" with Earl Bollinger at the piano, Bernard Loesche and Paul Troemper on the violins, and W. H. Hornberger on the bass. The Glee Club will present a quartet composed of M. A. Collick, first tenor, T. F. Jones, second tenor, A. Tiensun, baritone, and R. E. Roseen, bass.

"A Night at the Inn", a one-act play by Lord Dunsany, will bring out the talents of the men at Armour who have proven themselves dramatically inclined.

Fight Song on Program

Numbers by the band, with the Armour Fight Song as a finale will bring the Christmas Concert to a close.

The officers of the various clubs which have cooperated to give the student body this opportunity are as follows:

Glee Club—Dr. D. E. Protheroe, Director; E. W. Carlton, President.
Orchestra—E. E. Lantz, Student Director.

Band—W. H. Hornberger, Student Director.

Stresses and Strains has not as yet an official director.

To make clear to all the men participating in the Christmas concert exactly what is expected of them on next Thursday morning, the following is given.

The concert will start at 10:30 A. M. sharp. This means that the Orchestra men must come to Room B-Mission at least by 10:15 A. M. to dress. This room will be used for dressing by all men in the concert.

The regular music room, located at the east front side of the Assembly Hall, will be used for the Musical Club properties. Chairs, sheet music, stands, and the larger orchestral instruments will be found there, to be brought back after they have served their particular purpose. The members of the Stresses and Strains, Orchestra and Band are requested to keep their own instruments in Room B when not playing.

The Dramatic Club will use Professor Scherger's office for their properties and dressing room.

All the members of the Musical Clubs must wear white flannel trousers, black or dark blue coat, white

(Continued on page 2)

Dramatists Hold Final Rehearsals

A rehearsal of the one act play, "A Night at the Inn," to be given at the Christmas Concert, was held last Thursday night in the assembly hall by the members of the Dramatic Club.

Members of the cast wore the costumes that will be used at the concert. The scenery and lighting effects were also experimented with.

As a result of the perseverant manner in which the club has been practicing the last few weeks, the play was enacted in a smooth and efficient manner.

Professor Hendricks, who attended the rehearsal corrected mistakes and gave the actors helpful suggestions.

An old inn on a moor in England is the setting for the scene. Three sailors and an ex-gentleman have just returned from India. While there, they had stolen a large ruby from the eye of a temple idol. They successfully escape from three native priests of the temple, and intend to sell the ruby in London. Two of the priests have met death at their hands. While celebrating their successful escapade, they meet up with the third priest. The rest will be seen the morning of the concert.

Because of the large membership of the club, it was impossible to find a place in the cast for everyone, and therefore parts were assigned after tryouts.

These men make up the cast:

S. Finlay Toffy
W. W. Davies Albert
A. D. Burnett Sniggers
E. Curran A Priest
L. Gabriel A Priest
J. J. Gura A Priest
C. C. Schultz The Idol

The stage work will be managed by the following men:

H. D. Monger Stage Manager
J. Juvinall Lighting
M. Fuhrer Properties
W. Anderson Make Up
G. Terp Scenery

Chemicals to Inspect Inland Glass Plant

This Tuesday, December 17, the junior students in the department of chemical engineering will visit the Inland Glass Company in Clearing, Illinois during the afternoon.

Glass is made by melting a mixture of sand, sodium carbonate, lime, and magnesia, and allowing the resulting substance to cool. The final product, which is spoken of as a supercooled liquid, is a mixture of the respective silicates, and is transparent and very brittle.

Different types of glass vary accordingly as their composition. Certain types of cut glass contain lead, which is present as lead silicate. The tinting of glasses is produced by dissolving the oxides of metals such as, iron oxide and copper oxide, in the pot mixture.

In order to prevent the strains set up in glass due to rapid cooling, it is sent through an annealing chamber, or layer, where the temperature drop is approximately 150 degrees Fahrenheit per hour. These layers are from 60 to 70 feet in length, and the glass being annealed is sent through them in three hours.

This trip begins a new series of visits by the juniors. They will visit industrial manufacturing plants exclusively in the future, the 'water treating' trip having been concluded.

Because of the Midwinter Recess extending from December 21, 1931 to January 3, 1932, there will be no issue of the *Armour Tech News* until January 12, 1932.

Mechanicals Attend Lecture by Kennedy

Last Friday, an illustrated lecture was given in Science Hall before the A. S. M. E. The speaker was Mr. R. E. Kennedy, the technical secretary of the American Foundrymen's Association. His subject was "Developments in Cast Metals."

Casting of metals has been done for centuries, and has been the forerunner of the tool making industry. The earliest casting of metals on record has been done in permanent moulds made of stone. The use of green sand moulds is a later invention. About 1252 A. D., in Japan there was cast a great statue of Buddha. It is brass and was cast in five sections, the whole weight totaling 200 tons.

In foundry practice, metals are classified into two divisions, ferrous and non-ferrous. The former includes cast iron, steel, and malleable iron; the latter, brass, bronzes, also aluminum and magnesium alloys.

The strength of cast iron depends on the comparatively thick streaks of graphite in the metal which tend to separate the crystalline structure, thereby weakening the piece. The ideal metal is one which has uniform structure throughout the whole cross-section.

Malleable iron is fundamentally white iron which has been heat treated to remove excessive carbon and silicon.

The use of alloys has come into prominence in the last few years. By adding a certain per cent of nickel to the iron, the machinability of the casting is improved. The addition of chromium reduces the elongation of the cast parts due to exposure to extreme heat.

Alumni Banquet Set For Coming Thursday

Every alumnus of Armour Tech should attend the annual banquet to be held Thursday, December 17, in the Rose Room of the Morrison Hotel.

John Schommer says that all speakers are to be "muzzled". The purpose of the banquet is, he says, "to get together for a good old-fashioned reunion to renew old acquaintances, and talk of our old college days." Entertainment by singers and other musicians and an occasional story will be interspersed throughout the sessions. The alumni will be seated around small tables.

Louis Hirsh, '14, is in charge of the banquet while George H. Smith, '29, is arranging the entertainment. They believe that the work and thought put into this affair will result in one of the best get-togethers in years. The price is \$2.50 and the gathering will start at 6:30 P. M. although dinner will probably not be served till seven.

Movies Will Feature Next A. I. E. E. Meeting

Three reels of motion pictures donated by the General Electric Company will feature the next meeting of the A. I. E. E. to be held in Science Hall, Friday, Dec. 18.

These films are made easily understood by means of animated diagrams to demonstrate the functions of the various pieces of apparatus. In this fashion a better understanding of the action of a machine may be obtained than from the ideas set forth by a speaker.

The reels are of a very technical nature, but due to their importance, should be of interest to every electrical.

The subjects are
1. Automatic sub-stations (railroad service).
2. Automatic sub stations (general service).
3. Vacuum tube synchronizing equipment.

HONORARIES HEAR ARTHUR C. LUEDER AT ANNUAL DINNER

Tomorrow, December 16, the Inter-honorary Banquet will take place in the French Room of the Knickerbocker Hotel at 6:30 P. M.

The main speaker will be Postmaster Arthur C. Lueder, head of the Postoffice Department of Chicago. Dr. Scherger, who was kind enough to secure the speaker, will give a speech and also will introduce Mr. Lueder.

At least seventy-five people will attend. This number will include the active members, alumni, and pledges of the honorary fraternities. Several professors from each department have also promised to attend.

This is an annual banquet given by the honorary fraternities of Armour. At this one, which is the fifth, the pledges and possibly some new members will be introduced. The honorary fraternities include Tau Beta Pi, engineering; Chi Epsilon, civil; Eta Kappa Nu, electrical; Phi Lambda Upsilon, chemical; Pi Tau Sigma, mechanical; Salamander, fire protection; Scarab architectural; Pi Nu Epsilon, musical; and Sphinx, literary.

The banquet committee is composed of J. O. Cavanagh and R. H. Blom. The price will be \$1.75 per plate.

Fire Protects Visit Inland Steel Plant

Friday, December 10, the junior fire protects visited the Inland Steel Company plant at Indiana Harbor, Indiana. Professor J. J. Schommer led the group and explained the operations.

The blast furnaces were in operation and the spectacular processes of tapping and pouring were witnessed by the students. In the rolling mills, steel at 2000° Centigrade was passed through rollers until it was in sheets about a foot thick. The plates were then reheated and sent through another set of rollers shaping channels 110 feet in length.

After visiting the coking ovens, where coal is changed into coke the party inspected the by-products plant. Here the by-products of the coal are separated into coal-tar and gas which is used by the Inland Steel Company for heating the steam boilers.

The trip began at 9:45 A. M. and was completed at 2:00 P. M.

CALENDAR

Tuesday, December 15

4:00 P. M. Basketball, Armour vs. North Central College at Naperville, Ill.

5:00-6:00 P. M. Orchestra practice, Assembly Hall.

6:00-7:00 P. M. Drama Club, Assembly Hall.

Wednesday, December 16

4:30-6:00 P. M. Drama Club, Assembly Hall.

5:00-6:00 P. M. Stresses and Strains, Room B.

6:30 P. M. Inter-honorary banquet, French Room, Knickerbocker Hotel.

Thursday, December 17

10:30 A. M. Christmas Concert, Armour Tech musical clubs, Assembly Hall.

2:00 P. M. Junior Chemical Inspection Trip.

4:30 P. M. Basketball, Armour vs. Crane Junior College at Eighth Regiment Armory.

Friday, December 18

10:30 A. M. A. I. E. E. Meeting, D Mission.

7:30 P. M. A. C. S. Meeting, City Club.

Monday, December 21, to

Sunday, January 3

Midwinter Recess.

Wednesday, January 6

4:30 P. M. Basketball, Armour vs. DeKalb Normal, De Kalb, Ill.

TECH BASEBALL TEAM MADE SIXTH MEMBER OF NORTHERN INTERCOLLEGIATE CONFERENCE

**Teams Schedule Ten Regular Games
To Decide Championship
On Diamond**

TROPHY TO BE AWARDED TO LEAGUE VICTOR

Large Crowd at Senior Informal

What was perhaps the largest crowd that has attended an Armour social event in the last year or two assembled at the Medinah Athletic Club last Friday night, December 11, to spend the evening dancing to the music of Waddy Wadsworth's R. K. O. orchestra and generally having a good time. The evening's entertainment started at nine o'clock and continued until one.

According to several who were present at the dance, it was the most "self-amusing" crowd an Armour function has had for some time. Indeed, a few went so far as to say that Waddy Wadsworth's orchestra, good as it was, at times was practically superfluous.

Each of the numerous feminine guests was given a program having a white leather cover instead of the customary black. To state the opinion of some who saw them, the programs were of very attractive appearance, the Armour seal, in gold on a blue background, having been stamped on the white cover.

The dance was given under the direction of J. J. Casey, senior social chairman, and his assistants, W. E. Baumann, Mr. R. Beal, W. M. Trautman, and H. W. Yount. The chaperons were Professor and Mrs. Herbert Ensz, and Professor and Mrs. Henry T. Heald.

Clarence S. Rowe Speaks to W. S. E.

About sixty members of the Armour branch of the W. S. E. listened to the talk delivered by Clarence S. Rowe last Friday in B Mission at 10:30. Mr. Rowe, who is in the engineering department of the Chicago Public Works, spoke on the Halsted street bridge soon to be constructed.

He first gave a rather comprehensive history of bridges in Chicago, from the first humble fixed bridge built in 1829 to the world famous bascules, which span our rivers today. Up until recent years no attempt was made to beautify the bridges.

The new Halsted Street bridge will be a double leaf trunnion bascule bridge of about 18 feet vertical clearance. It will cost \$2,200,000. The design of this structure presented a number of problems because of a bend in the river and also in the street at this point. This was overcome by allowing for a widening of Halsted Street and making the bridge of the new width.

The legal problems concerning the bridge have for the most part been settled, and actual work has been started. The temporary bridge is being built and in a few days work will be begun in removing the old structure.

Faculty to Receive Proofs of Pictures

A change in photographers this year has necessitated the retaking, last Thursday, of all the pictures of the faculty for the 1932 Cycle. The proofs will be returned soon and distributed in the mail boxes, and the selection should be made as soon as possible. Members of the faculty who so desire may have pictures made up in attractive styles at the same quotations as the students are receiving.

Armour's baseball team has entered the Northern Intercollegiate Conference for the 1932 season. At present the league will be made up of six teams: Armour, Elmhurst, Lake Forest, Mount Morris, North Central, and Wheaton.

Home-and-home games will be played with each team, making a total of ten games already scheduled, and leaving from four to six games yet to be arranged.

Although eight men have graduated from last year's team, Coach Kraft is very confident that Armour's 1932 team will be as successful as the teams have been in the past. For the last five years, Armour has won 52 games, lost 17, and tied two. During 1931, they won eleven and lost only three games. The best season was in 1929 when 13 games were won, while only one was lost, the latter being to Luther college of Decorah, Iowa, Iowa state champions.

Trophy for League Champions

The league was formed to create more interest and to promote competition in college baseball in the Middle West. A trophy will be given to the college each year that wins the championship.

Later on, more teams will probably enter the league to make it the strongest conference for smaller colleges in the district. Other sports will also be added to the roster of competition. Coach A. A. Stagg, Jr. is at present trying to develop a conference for track competition among the colleges.

Armour should make a good showing in this league, having defeated some of the strongest midwestern colleges in past years. The teams on former schedules were: University of Chicago, Notre Dame, University of Iowa, Luther (Iowa), Chicago Normal, Crane, Lake Forest, North Central, Bradley, DeKalb, Western State Normal, Michigan State Normal, St. Mary's, Morton, and "Y" College.

Last year, Armour defeated three teams in this new league, Lake Forest, Wheaton, and North Central. Both of the Wheaton games went to extra innings, but Tech finally won, 5-4, and 7-6. North Central was defeated twice, 5-2. Lake Forest lost earlier in the season, 6-4, but defeated Armour, 6-3, in Tech's last game for 1931.

Award Three Gold Baseballs

"Vic" Omiecinski, '34, led the batting averages last year with .392, getting 18 hits in 46 times at bat. He also knocked three home runs out of the park to aid Tech in winning games. Gold baseballs were awarded to "Chief" Stehno, for his remarkable pitching record; Captain C. J. Robin for his all-round playing while being on Armour's teams for the past four years and to Omiecinski for maintaining his season's batting average above .350.

Seven Men Back

The following men will be back from last year's squad: Omiecinski, Sommer, Galvani, Lynch, Young, Grundstrom, and Reed. Practice for catchers and pitchers will probably start the second week in February in Tech's gymnasium, but the outfielders and infielders usually do not start until the first week in March if weather permits.

"Chief" Stehno ended his collegiate pitching career by winning six and losing two games. His best game for 1931 was his one hit game on May 26 against DeKalb. Probably his best pitching success was against Coe College in 1930, holding them to only two hits and a walk.