



## A.T.S.A. PLACES TICKETS ON SALE FOR DAD'S NIGHT

### Complete Plans for New Social Event

Black dad's tickets and yellow son's tickets for Armour's first Dad's Night were placed on sale last week by the A.T.S.A., under the direction of C. W. Dunbar, in charge of ticket sales. The dad's tickets are priced at \$1.30 and the son's tickets are \$0.90.

#### Hold Meeting of Leaders

Like an approaching avalanche, the forces promoting Dad's Night are gathering momentum. Last Thursday the A.T.S.A. called a meeting of all class officers and presidents of fraternal and society groups at Science Hall. There the importance and significance of a successful Dad's Night was discussed with those present. They will, in the main, be the ones who will sell most of the tickets.

A. P. Schreiber, speaking for the A.T.S.A., outlined the purposes of Dad's Night, the type of an affair it will be, and the plan by which the tickets are to be sold.

#### Appoint Men to Sell Tickets

The sale of tickets will be conducted by men representing both the classes and the departments. A list of those men from whom tickets may be purchased follows:

Senior Class: J. C. Stern, C.E., manager; J. F. McCauley, F.P.E.; A. A. Sobolik, E.E.; L. E. Zwissler, C.E.; J. A. Haase, Ch.E.; L. J. Janas, M.E.; and N. Gerber, Sc.

Junior Class: W. J. Chelgren, M.E., manager; C. K. Nauman, M.E.; J. Dunne, Ch.E.; R. F. Beardsley, F.P.E.; G. A. Palka, E.E.; and W. Schlax, C.E.

Sophomore Class: W. E. Kruse, manager; R. R. Tullgren, C.E.; F. C. Mitchell, M.E.; H. C. Anderson, F.P.E.; and R. I. Jaffe, Ch.E.

Freshman Class: D. H. Sunde, manager; J. P. Ransel and J. Winslow.

The faculty representative is Professor P. C. Huntly. J. D. Sheehan will manage the sale of tickets through clubs and fraternities.

The representatives of the various clubs and fraternities are N. Gerber of the Sphinx and Chess club, W. Laise of Delta Tau Delta, P. M. Mar-

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## Armourites Laud Diana Bacchanale

### Smooth Music, Floor Levels Please 'Astaires'

The spirit of the ancient "Bacchanale" was truly present at the modern conception of this ritual as presented by the Armour Arx last Friday. This first social affair of the current year at the beautiful Diana Court had all the spontaneous gaiety and friendliness so essential to any enjoyable dance. A little over five hundred guests stomped and swung to the Royal Club orchestra's catchy rhythms.

#### Floor Not Crowded

Dancing got under way soon after nine o'clock, many arriving rather early, in order that their terpsichorean accomplishments might be displayed to best advantage before the floor became crowded. The crowd did not reach the uncomfortable stage at any time.

The three dancing levels were found pleasantly unique and "Bo-jangles" himself would have turned green (?) with envy at the up-and-down-the-stairs routines gone through by Armour's Astaires.

#### Romantic Atmosphere Prevails

Armour men were able to impress their girls with the sophisticated setting of the modern Court of Diana. Its fashionable balconies and simple furnishings and the tuneful rhythms of Art Wise and his Royal Club orchestra contributed to lend a romantic air that made the strains of the last dance seem to come much too soon. Congratulations to Tom Cunningham and Wally Litwin and all the Arx.

## Chi Epsilon Pledges Six to Membership

Chi Epsilon, honorary civil engineering fraternity, pledged six men to its membership at a public pledging held last Friday morning preceding the local W. S. E. meeting. Professor J. C. Penn, honorary member of the fraternity, explained the ideals and principles of the fraternity and the recognition it affords to civil engineering students who are high in scholarship and have other requisites of a good engineer: character, practicability, and sociability.

L. Zwissler, president of Chi Epsilon, introduced the men who were chosen for membership. Seniors pledged were M. Herz, M. Jaedtko, J. Smidl, and S. Taradash. F. Palonis and W. F. Schlax were the juniors pledged. The pledge ribbon colors are purple and white.

## Chemicals Hear Talk on Water Treatment

"Water and Sewage Treatment" was the subject of an informative and interesting talk given by Mr. H. H. Gerstein, district chief of the city Water Purification Department and an alumnus of Armour. According to Mr. Gerstein, the pollution from surrounding industrial districts has created a problem which has taxed the ingenuity of municipal chemical engineer. With the present chlorinating system, the phenols and other impurities from the industrial plants sometimes combine with the chlorine to give the water a very objectionable taste. Instead of the usual four pounds per million gallons, as much as eighteen pounds are necessary under these conditions. Unsuccessful efforts have been made to induce the offending companies to dispose of their own pollution.

#### Install Plant at Crib

An ammonia chlorine mixture was found to give better results, but more time was required by this method. In the district where pollution was greatest it was decided that the purification plant be installed at the crib itself instead of the pumping station.

#### Purification Plant Important

This method, according to Mr. Gerstein, is not the final solution to the problem. Sentiment in favor of a filtration plant has been growing, and favorable action is expected in regard to a plant at 79th street within a short time. Mr. Gerstein believes that the field of water purification is becoming of increasing importance to the chemical engineer and offers great opportunity.

## Dr. M. A. Grossman Speaker at A.I.E.E.

Dr. M. A. Grossman, who is research director at the Carnegie-Illinois Steel company and who is well known at Armour through his work with Professor Carpenter in laboratory research several years ago, spoke at the regular meeting of A.I.E.E. last Friday on "Composition and Heat Treatment of Electrical and Magnetic Steels. His lecture included an explanation of the crystalline theory which has recently been advanced to explain the behavior of metals in a magnetic field, and he named several of the most used steels and alloys in the manufacture of permanent magnets.

Of particular interest to some of the men was the permalloy magnetic chart which shows the permeability of the alloy for various proportions of the alloyed metals. The curve reaches a sharp maximum at a composition of 78% nickel and 22% iron, making the graph appear like an inverted picture of an icicle on a telegraph wire.

Parallel with the electrical advancement in the field of transformers and alternating current machinery, the metallurgical development in electrical steels necessary for transformer cores and alternator applications has proceeded at a rapid rate.

## BIDS FOR SENIOR INFORMAL GO ON SALE THIS WEEK

Coupling the beautiful Gold Room of the Congress Hotel with an outstanding orchestra, the seniors will hold their annual "Senior Informal" Friday, November 27, from nine to one o'clock. The bids which will be placed on sale this week are to be at \$1.50. They are of novel design, made of metal with black suede envelopes.

#### To Play Armour Songs

Jack Russell's popular eleven-piece N.B.C. orchestra has been selected for the dance. He has made special arrangements in order to play the "Armour Fight Song" and a fraternity medley. The Gold Room is considered as the most beautiful room of its kind in Chicago. It ordinarily accommodates 1000 people and provides ample space for dancing. It has been arranged so that Armour is to have use of the two lounges adjoining the Gold Room, the spacious corridor leading to the room itself, and the cozy balcony of the room. Armour students will be welcomed at the Glass Hat and the Congress Casino Lounge (both cocktail lounges) where they will be exempt from minimum and cover charges.

#### During Thanksgiving Vacation

According to Arthur Dreis, senior social chairman, there will be no home work for day school students and no classes for the evening students which should stimulate interest in the dance.

## Install Larger Water Tank in Main Building

A new, modern water reservoir was installed last week in the attic of the main building to replace the old tank which burst several weeks ago. The old tank had been used since 1891 to supply water to the school for purposes other than drinking.

Supplementing the old tank with its riveted connections and simple iron construction is a six-piece, steel, arc-welded reservoir 22 feet in circumference and 7 feet 10 inches high. Due to the excessive size and weight of the individual sections it was necessary to hoist them from the first floor to the attic by means of a windlass. This operation resulted in only minor damage being done to a wall opposite the drafting room entrance.

Several important devices for eliminating any leak or overflow are incorporated in the tank. This includes an overflow pipe leading to the boiler room in the basement and a small trough around the tank at the bottom to take care of small leaks. The leak in the old tank resulted in the ruining of several ceilings. These were replaced at considerable cost.

## Colonel Davis Talks on Military Leaders

Colonel Edward A. Davis, retired military officer formerly the commander in charge of the Sixth Corps Area, was the guest speaker at the Armistice Day Assembly held last Wednesday, November 11. The glee club and orchestra preceded the speaker with a musicale, and, following the assembly, classes were dismissed for the balance of the day. The simple characteristics of great men was the keynote of Colonel Davis's talk. Because of his close acquaintanceship with many of the outstanding leaders of the World War the speaker was able to describe several kings and generals such as King Alexander of Jugo-Slavia; Lord Allenby, the great English general who fought in Palestine and Egypt; and Field Marshal von Hindenberg of Germany. At the conclusion of his address Colonel Davis advocated more centralized control for the Federal Government and denounced the waste and inefficiency of local government.

## Tickets Are Now on Sale For Play

With the perfection of the Armour players' production now rapidly approaching the standard set by last year's group, Mr. W. B. Fulghum, director of the players, announces that tickets are now on sale, and may be purchased at the book store for the price of ten cents. The play, "Waiting for Lefty," will be given in the Mission on Wednesday, November 25.

"Waiting for Lefty" is well named since all the members of the workers' union are waiting for "Lefty" to appear at their meeting before taking steps toward declaring a strike. The climax of the play is reached with the announcement, "Lefty has been murdered." The unusual aspect of the play is illustrated in the omission of a solution for the particular labor problem involved.

## Ten Men Are Pledged to Alpha Chi Sigma

Ten students in the chemical engineering department were pledged to Alpha Chi Sigma, national professional chemical fraternity, last Friday. The three sophomores and seven juniors pledged were: N. K. Anderson, '38; E. C. Berger, '38; J. Danek, '38; J. Dunne, '38; J. D. Keane, '39; G. F. Morris, '39; P. J. Peltier, '39; L. B. Poskonka, '38; G. Thodos, '38, and E. F. Wagner, '38.

The new and spacious quarters in the Armour flats are being extensively decorated, so the pledging was held at the Phi Lambda Upsilon rooms. Dr. J. A. Shaad, new instructor in chemical engineering and faculty advisor of Armour chapter, was introduced to the new men. Dr. Shaad was formerly a member of Zeta chapter at the University of Illinois.

## Hold Soph Smoker on November 25

### Will Have Use of Rooms at Lawson Y. M. C. A.

On November 25, the Sophomore Smoker and Splash Party will open the 1936-37 social season for the class of '39. Tickets for this party, which will take place one week from tomorrow night at the Lawson Y.M.C.A., can now be secured from any one of the class officers or members of the social committee.

#### John J. Schommer to Speak

Plans include the use of Lawson Y.M.C.A., which is located at Chicago Avenue and Dearborn Street. A better site for this event can not be found. The Lawson "Y" affords spacious club and game rooms, a beautiful swimming pool, locker facilities.

During the first part of the evening, John J. Schommer will speak in his own inimitable way to the sophomores. It is not necessary to expound herewith upon all the rare and enviable qualities possessed by this famous Armour Tech professor and Athletic Director. They are well known, and the mere mention of John Schommer's name will cause the weakest heart to fall in line with those who have already purchased their tickets.

#### To Serve Cider and Doughnuts

Cider and doughnuts—will be served during the course of the evening, which will include swimming, sport, card-playing, and a royal participation in "make-up" bull sessions.

Free bids will probably be sent to the presidents of all leading Armour Tech organizations. Sophomores are reminded that their friends are welcome to come and join freely in all the party activities.

Tickets at 50 cents per person can be purchased from the following men of the class of '39: B. G. Anderson, H. S. Anthon, I. Footlik, R. I. Jaffee, E. C. Mitchell, R. Starrman, W. Steward, and R. R. Tullgren.

## Phi Lambda Upsilon Pledges Seven Men

Armour's branch of the honorary chemical fraternity, Phi Lambda Upsilon, has pledged another science student among its usual quota of chemical students. H. L. Bliss is the senior science student. The chemical pledges are F. D. Hoffert, M. L. Holland, R. M. Levy of the senior class of '37, and N. K. Anderson, W. R. Marshall, E. F. Wagner, who are members of the junior class of '38.

The above seven men of Armour were given their pledge vows last Tuesday night, November 10 in the Tau Beta Pi rooms and were given the pledge ribbons which they now wear on their coat lapels. Ribbon colors are litmus red and litmus blue.

Science students, because of a wide choice of electives, are able to guide their study along the line of any department they wish, whether it be mechanical, electrical, or some other type of engineering. Therefore, science students that are selected to pledge Phi Lambda Upsilon are those men who have chosen to major in chemical engineering.

## A.S.M.E. Sees Movie on Auto Production

"Master Hands," a motion picture produced and shown through the courtesy of the Chevrolet motor car company, was shown last Friday at the meeting of the A.S.M.E. Pictures of the production of the modern motor car from the foundry to the final assembly lines were vividly portrayed.

#### Show Mass Production Methods

Highlights of the film were the mass production methods, and the complexity of the automatic machines, climaxed by the gigantic presses for forming the solid steel body tops.

A short business meeting was called to order by President S. Miner before the pictures were shown.

Two student speakers, I. Thomas and H. Nicholas will speak at the meeting on Nov. 20. Their subjects will be in order mentioned, "Technical Aspects of a Trip West" and "Tool Rebuilding." The speeches will conform with the convention competition and will be judged by student judges picked for the occasion.

#### Hold Special Meeting

A special meeting will be held Nov. 24, at Science Hall. Mr. W. E. George, a representative of the American Steel and Foundry Company, will tell about the things to be noted in the inspection trip Wednesday, November 25. All arrangements concerning transportation should be sent to J. Hlousek.

Plans for the annual smoker were discussed with details to be announced later. This smoker will be held December 2 in the Student Mission.

## Soil Mechanics Topic at W.S.E. Meeting

At the W. S. E. meeting, Mr. A. E. Cummings delivered a talk on the practical application of soil mechanics to foundation problems. Mr. Cummings, who is employed by the Gow Concrete and Foundation Company, has spent many years in the study of soil mechanics. According to Mr. Cummings, the lag of research in soil and foundations behind research into structural design of buildings has been caused by the more involved mathematics needed in the former problems. In order to explain more closely he used several slides showing the stress analysis of a simple beam alongside of an analysis of a footing problem.

Most of the progress, he stated, has been made within the last 20 to 25 years, but progress will be more rapid when the architects and engineers exchange their ideas on soil and settlement problems more freely.

## W. J. CHELGREN IS ELECTED JUNIOR CLASS PRESIDENT

### Dunne, Healy, Schlax, Seidenberg Are Poll Victors

#### USE RUN-OFF ELECTION

W. J. Chelgren, leader in the preliminary election, was elected president of the junior class in a run-off election held last Tuesday, November 10. "Bill" Chelgren, as he is known to his classmates, is an assignment editor on the *News*, secretary of the A.T.S.A. Board, and secretary-treasurer of the musical clubs as well as a member of the mechanical engineering department.

#### Almost 100 Per Cent Vote

W. F. Schlax, civil engineering student, was elected as vice-president; J. Dunne, chemical engineering student, was elected as secretary; I. Seidenberg, mechanical engineering student, was elected as treasurer; and S. E. Healy, mechanical engineering student, was elected as social chairman.

In the preliminary election held on November 6, 139 of the 163 members of the junior class cast ballots, but in the run-off election 157 juniors, almost 100 % of the class, cast their ballots.

#### Run-Off Balloting Also Close

The ballot of the run-off election contained the names of the two candidates for each office who had received the most votes in the preliminary election.

In the run-off election the returns showed the voting to be close. Many men were elected to office by narrow margins. The complete returns from the election as stated by the election committee of C. Basile, C. Dunbar, W. R. Marshall, G. A. Palka, and I. Seidenberg are as follows: For president W. J. Chelgren, 92; W. P. O'Brien 65; for vice-president W. F. Schlax 86; R. M. Faust 71; for secretary J. Dunne 102; R. F. Beardsley 56; for treasurer I. Seidenberg, 95; C. K. Nauman, 63; and for social chairman S. E. Healy, 99; R. E. Worcester, 58.

## Armour Grad Talks On Electrical Codes

Members of the F.P.E.S. were privileged to hear a talk last Friday in the physics lecture room by a man well known in the electrical field, Mr. Victor Tousley. Speaking before the group on the subject "Prevention of Fires in Electrical Hazards," Mr. Tousley thoroughly discussed the National Electrical Code and cited a few of the important advantages to both manufacturer and consumer of a national set of rules and regulations governing the installation and use of electrical equipment.

The National Electrical Code, in existence for approximately fifty years, was formulated to reduce the number of fires and fatalities resulting from improper installation of electrical appliances. The national government found it impossible to draw up such a set of rules due to state hindrances. The work was subsequently taken up by a committee of interested individuals. As a result of their work, the code, in its present revised form is recognized in most of the 48 states and is strictly complied with.

That the code has accomplished its purpose is very much evident by comparing fires and accidents resulting in both the electrical and automotive fields from the increased use of electricity and automobiles. Increased use of automobiles has resulted in a proportional increase in accidents and fatalities, whereas an increased consumption of electricity has led to no appreciable rise in the number of fires and fatalities. According to Mr. Tousley, this is directly due to the National Electrical Code.