



No. 11

Armour Institute of Technology, Chicago, Illinois

by Ballot Today Last Week's Campaign Talks

to Influence Vote

Candidates for class offices were presented to the freshmen last Friday morning at their class meeting in the supper dance. The social committee, Mission. The primary election was held yesterday, and today the runoff election is to be conducted.

Candidates for president are: R. Graham, D. Long, and P. Shaffer; for vice-president: K. Myers, F. Reh, G. Gardes, and S. Shapiro. Students seeking the secretarial post are: J. McErlean and R. Zoellner; for treasurer are D. Crego, D. Graf, C. Kramer, and J. Waber; and for the A.T. S.A. representative the following men are running: G. Hamilton, R. Jacobsen, and R. Sweeney.

The final group of candidates who are seeking the office of social chairman, and all promising a supercolossal freshman dance are: F. De-Money, H. Leave, R. McMahon, and J. Smith.

The candidates for all six offices presented campaign speeches at the assembly last Friday, and because of the large number of men running for office the voting promises to be spirited.

Worcester, Brown Speak Before A.I.E.E.; Plan to Hold Joint Meeting Soon

winter program were heard at the tion of the various kinds of materials. This means that he has ground about last AIEE meeting. R. E. Worcester | The dye and the artificial silk or | 131,000 tools so far-and he is still spoke on "Highway Lighting," and rayon industries were the two main going strong. E. Brown discussed "The Sperry topics of the talk.

of the efficiency of sodium lighting. If tungsten lamps had been installed it is estimated that the operating costs would be twice the present figure.

Brown explained the Sperry method of discovering hidden flaws in rails, and told how it was developed. liquid called viscose. This thick The Sperry apparatus is mounted in a car which moves along the track, through tiny holes of a spinneret to marking the bad rails and recording their position.

It was decided that a joint meeting of the Chicago AIEE section and the electricals of Lewis, Northwestern | Krathwohl Advocates and Armour would be held in the near future. Plans for the meeting have been left to the committees.

Junior W.S.E. to Hear about Aluminum Uses

Dr. Paul V. Faragher of the research department of the Aluminum Company of America will give a talk before the downtown Junior W.S.E. next Thursday evening, dealing with the engineering application of aluminum and its alloys and will discuss the cooperative program of research. The aluminum industry, young by comparison with the industries built around the older base materials, has from its very beginning followed a policy of cooperating with manufacturers in the development or redesign of their products. Continuous research work has pioneered in the field of the aluminum alloys. The talk, which will be illustrated by lantern slides, should be of interest to all members engaged in design in every branch of engineering.

This evening Professor W. M. Wil-Structural Welding" in which he will speaker. ber of lines. New methods of weld- something like this: "The relations wards changed his estimate since the of glass. Besides this all of the metal, rooms. As yet, no definite plans have terested in the development of plant show that progress in structural tended use of welding as a means of give a green area or blue and yellow The happy little beast was gently The talk was illustrated with lantern o'clock in the NEWS office. All re- usually include papers on new profabricating structures in general.

Freshmen to Select Formal Junior Dinner Dance Date March 5

In a meeting of the junior class Wednesday, plans for the annual junior formal were discussed. The dance is set for March 5 at the Ballroom of the Palmer House. It was decided to make the affair a dinner dance rather than a led by B. G. Anderson, has already made arrangements for the ballroom the present time. Others on the committee are I. M. Footlik, D. W. Jacobson, and W. A. Stuhr.

Dr. Kintner Talks on Chemistry of Cloth over WCFL

C. Kintner, Associate Professor of 9:30 till 1:00. Chemical engineering as the guest speaker. A. P. Schreiber, publicity director, assisted Dr. Kintner as in- Engineering Shop Assistant terpreter.

The subject of Dr. Kintner's broadcast was "Clothing Industries." The object of the talk was to demonstrate industry.

Use High Speed Rotary Knives

Initial student speakers of the scribing the fibers used in the produc- a week, since he began work here.

seem to be best suited for highway of bisulphite of lime under high pres- tallest building in the world. lighting. Worcester cited the San sure. The digested chips are washed

Used in Paper and Rayon

This pulp is used in making paper as well as making rayon. This pulp is treated with a strong lye solution and then with carbon bisulphide. The product thus obtained is dissolved in a dilute lye solution to form a thick form the fibers that are finally woven into rayon cloth.

Use of Simple Models

Dr. Krathwohl advocated the use structors of northern Illinois, held at Wright Junior College on November 20.

fore the class, than if it is perfectly | lecture. constructed beforehand. The effectiveness lies in the fact that the class can see every step in its construction, and thus the underlying princlples upon which the model is based been able to complain of ill-treat- University of Chicago on the "Concan be brought home.

sectors.

Pre-holiday Dance | Soph Dance Offers Offered by Seniors

Suitable to the occasion the Seniors are celebrating the last day of the school year, Friday, December 17, with an outstanding dance of the year. Realizing that former dances have always been crowded because of too small a ballroom the committee this year has arranged for the and is busy auditioning orchestras at spacious Cedar Room on the fourteenth floor of the Oriental Building downtown.

For the music Johnny Mullaney and his Collegians have been obtained. The orchestra has been very popular around town playing for college proms, and will help to make this dance a high spot of the social calendar. All classes of the school are invited, and to the freshman in particular it offers a chance to meet the upperclassmen of Armour. Bids, The fifth broadcast of educational priced at one-seventy-five each, can topics sponsored by Armour, was giv- | be obtained from any of the social en last Saturday night at 7:30 p.m. | chairmen and their committees. The over station WCFL with Dr. Robert | dance is informal and is timed for

Sets Statisticians Working

the part chemistry and chemical engi- interest in the work being done by neers play in the improvement of this | Mr. E. R. Gatley, assistant in the engineering shops since 1921.

Mr. Gatley has sharpened an aver-Dr. Kintner started his talk by de- age of fifteen tools a day, six days Spears to Show Pictures

Emil Flindt's Music in Medinah Ballroom

Medinah Athletic Club's grand ballroom has been chosen as the site for the annual sophomore dance to be held on Friday, January 14. Although not definitely contracted as yet, Emil Flindt, the popular maestro of Oh Henry Park, and his superb orchestra will probably provide the Techawks with their smooth, distinctive rhythm. The bids will be priced at the customary low figure of \$1.50.

The grand ballroom has a capacity of fifteen hundred people which will be more than ample for this occasion. It has been recently redecorated, and boasts a large balcony which will be furnished as a lounge. A spring floor of recent construction coupled with the pleasant atmosphere will be most conducive to prolonged dancing. A large foyer, equipped with lounges, private elevators, and ample park- test the flow of heat through insula- a common footing where they may ing facilities are the crowning factors of a perfect selection.

Emil Flindt has played to capacity crowds at Oh Henry Park for the past two years indicating his unusual popularity. His widely known orchestra has arrangements of all the Armour songs, besides his characteristic selections of soft, sweet harmony.

E. H. Worcester is the guiding hand in the affair with a year of past Armour statisticians should find experience to his credit. With these two selections he expects this dance to be the biggest affair on the Armour social calendar.

for Faculty Club Members

gineering department will show the use of this phenomenon. The dyna-In order to further impress the motion picture which he took at tron tube invented by A. W. Hull is Method of Determining Rail Faults." The viscose process used in the magnitude of the task — if all the Camp Armour before the Armour used in radio work. This type of tube Worcester pointed out that the in- manufacture of rayon was described. tools sharpened were set one on top Faculty Club next Friday morning at is similar to the old type of screen stallation of lights on the main high- In this process, small spruce logs are of the other, they would reach to a 10:30 o'clock. The films consist of grid radio tube. The other type ways would avert 35 per cent of the chipped by high speed rotary knives. height of about 20,000 feet or nearly two reels of pictures taken at the called "the electron multiplier," innation's accident cost. Sodium lamps These chips are digested by a solution seventeen times the height of the civil summer camp at Trout Lake, vented by P. T. Farnsworth, is used Wisconsin in 1936 and 1937.

Francisco Bay Bridge as an example in water and the fibers separated. Perfect Patlogan Dunked Dog Test; Armour Dogless for Several Weeks

By R. Perry

Yawning, he gazed at the blackeral weeks. Needless to say, this con- mastering the intricacies of the dition cannot be too strongly de- and D scales. In furthering the cause of simple | plored; a school without dogs earnestmodels, Dr. Krathwohl explained that ly attending an occasional lecture is a model is much more effective if it only to be likened to a school withis simple and can be constructed be- out dogs earnestly attending every Potter Lectures on

Finds Chem Lab Interesting

The discouraging part about the Professor J. G. Potter spoke last whole thing is that no dog has ever week before the Physics Club of the ment; the utmost courtesy has always tact Potential of Tungsten." He was The chief advantage of color is been extended to man's canine com- the first of several members of the that like parts, such as algebraic rade. To cite an example: a small Physics Department who will speak equations, similar figures, and others white animal passed this way last before various outside groups, the can be represented by the same summer and, being irresistibly fas- basis of the talks being the work that colors in order to emphasize their cinated, as dogs are, by the aroma they have carried on in their reequality or similarity. The use of of the chemistry laboratory, he wan- searches. color can eliminate the use of let- dered in. Now to this wee animal's The work discussed by Prof. Pot- NUS. The rooms to be vacated by yesterday for the annual convention ters to identify a triangle or some inexpressible job and delight he was ter is important in determining the Pi Tau Sigma are to be occupied by of the Society for the Advancement other figure, and thus the student will overwhelmed with attentions. After efficiency of tungsten for use in the Publicity Department which is of Management to be held in New be able to follow the lecture with- being placed in a carefully regulated photoelectric or radio tubes. All of now situated in Chapin Hall. out the trouble of finding letters in bath of precisely ten degrees centi- the work in this connection must be With this move all of the vacant preside at a group meeting on colspeak on "The Current Status of a diagram while listening to the grade and tenderly washed with soap carried on in a high vacuum. In space in Chapin Hall will be occupied lective bargaining. The membership which as determined by previous an order to eliminate any external ef with the exception of a group of flats of the society is composed mainly of Soon the students in our institu- alysis contained not less than ten per- fects, all of the bearing points and on the fourth floor, which are being consulting engineers, teachers, exetions of learning may be treated to cent free alkali. (The analyser after- systems of levers must be constructed held in reserve as tentative drafting cutives of companies, and others ining are being developed, old methods between this pink parabola, lavendar dog still had some fur left at the both magnetic and non-magnetic exare being perfected, and welding is triangle, ultramarine square, vermil- completion of the immersion; in honor cept the tungsten being tested, is covbeing extended into new fields. The lion hyperbola, and orchid circle are of the inventor this test, not previ-ered with glass. Adjustments and changes. development of types of structures as follows." Perhaps a question ously covered in the texts on the sub-measurements are made by means of which have resulted from additional might be raised as to whether a blue ject, is now known as the Patlogan outside magnets exerting their effect

singed dry next to the oven and then, slides.

the door.

board, and disdainfully sniffing, the presence of the animals inspires radiations, methods of extracting and liquid is then filtered and forced turned his attention to the ceiling, the they boost the morale of the faculty handling radium, and practical appliwhile pondering upon the things that decidedly since some dogs have been cations of radium and artificial radiomake professors drone that way. His known to listen to lectures occasion- activity. head nodded, and sighing mournfully ally. If the whole thing were carried he slumped forward until his chin to a logical conclusion by means of rested easily on the floor and, with a suitable publicity campaign there Social Science Dept. an academic flourish, scratched his is no doubt but that eventually the left ear with his right foot. Perhaps distracting human element could be it was while reclining in this singular displaced. There is also no doubt position that some distinctly disparag- that a class of mutts could master of color and single models for more ing conclusion was reached which, af- slide-rules better than a number of effective teaching in an address be- ter being noised about the far reaches students who, after owning Log-Log fore junior college mathematics in- of the city, has had the effect of rend- Polyphase Duplex Vectors for several ering Armour dogless for these sev-semesters have finally succeeded in

'Contact Potentials'

I. Ch. E. to Hold Combined Meeting Here Tomorrow

Heat Insulation Laboratory New Scene of Experiments

Under the direction of Professors Anderson and Peebles various tests with insulation are being conducted in the heat insulation laboratory. The tests are made primarily in the constant temperature room which is in- with them a joint meeting. The local sulated all around with four inches of cork. This room can be cooled to Marshall, chairman, will present a 20 degrees fahrenheit and heated to program made up of dinner, presabout 100 degrees fahrenheit.

ductivity of different types of heat | chemical engineering laboratories insulation, moisture capacity of in- while in operation. sulation, room coolers, radiators, pipe insulations, and cabinet stoves. practicing chemical engineers meet Equipment is being constructed to each other at this sort of meeting on tion at high temperatures.

Dr. Copeland to Talk on Electron Emission

Dr. Paul L. Copeland has been invited to speak before the Physics Colloquium of Northwestern University, on next Thursday. His talk will be "the Secondary Emission of Electrons from Solids." All solids when bombarded by electrons give off secondary emissions. In many cases the emissions are six or seven times as great as the electron bombarding the sample. This secondary emission in the case of common radio tubes is undesirable. Two types of tubes, how-Prof. S. M. Spears of the civil en- | ever, have been developed that make for the amplification of currents in photoelectric and television work.

Dr. J. S. Thompson will give a series of three lectures at the Wil son Junior College this week on the subject of "Radium and Radioactivity." These talks which are a repetino end refreshed, staggered out of tion of a series given for several years will cover the properties of Aside from the common humanities radio-active substances and their

Transfers Quarters

Pi Tau Sigma Also Leaves First Floor of Flats

the few remaining organizations in denser tubes, evaporators, vacuum the Research Building to move. Pi | leaf and industrial filters, gas ab-Tau Sigma, the honorary mechanical sorption, vertical condensers, an exfraternity, will move, according to tractor, and an agitator. present plans, to the fourth floor of the first entrance, Chapin Hall. Part | be operating sanitary water treatof the remodelling necessary to make these rooms presentable will be done by the school and the balance will be done by members of the fraternity.

moved to the third floor of the same gas analysis, and various pumps. building in which it is now situated. Extensive remodeling will take place Professor Dutton Travels before the move. The space occupied by the Social Science office will be taken by Professor D. P. Moreton and his staff for the use of the AR-MOUR ENGINEER AND ALUM- the social science department, left

manner of making the proposed ment.

research is causing the more excircle added to a yellow circle will "Dunked Dog" test for free alkali.) upon the metal parts within the tube. NEWS staff tomorrow at 12:20 The proceedings of the A.S.M.E.

Armour Branch to be Host to Chicago Section

Tuesday, December 7, 1937

Acting as hosts to the Chicago section of the A.I.Ch.E. for the third successive year, the Armour student chapter tomorrow night, will conduct chapter, under the direction of W. R. entation of student papers, speeches, Tests are being made on heat con- and inspection of the Armour Tech

Chemical engineering students and exchange and discuss ideas and experiences. The practice of conducting these combined meetings was begun two years ago under the leadership of H. P. Milleville who was then chairman. Last year's was as successful as the first; the local chapter hope this year to equal or surpass the two preceding joint meetings. Guests Received by Faculty Club

The guests from the Chicago section will be received in the Faculty Club. H. J. Bodnar and E. F. Wagner, senior chemicals, will be in charge of the reception. From there, they will proceed to the Student Union where dinner will be served.

At the conclusion of the dinner, student talks are to be presented. Six student papers based on studies made in the Armour chemical engineering laboratories will be given by both graduate and undergraduate students.

First S. M. Osri, a senior chemical, will talk on "High Frequency Induction Furnace"; N. Gerber, research student with Dr. Komarewsky, will present "Gas Absorption"; T. M. Gilkison, assistant in chemical engineering, will give "Condensing Organic Vapors"; senior chemical B. W. Gamson will talk on "Heat Transfer Coefficients"; A. P. Schreiber, graduate student, will present "Cross-Tube Evaporator"; and last R. M. Levy will talk on "Binary Liquid Sys-

Berger and Kruse in Charge Most of the equipment used in the

Armour chemical engineering laboratory course will be in operation by teams of junior and senior chemicals. Inspection of the laboratory by the group will start about 9:00 o'clock. E. C. Berger will be in charge of the senior laboratory, and W. E. Kruse will be in charge of the junior laboratory.

Operating in the senior laboratory will be distillation apparatus, dies, The everexpanding needs of the vibrators, steam jacketed kettles, a Research Foundation have required gas fired furnace, horizontal con-

In the junior laboratory there will ment experiments, industrial water treatment experiments, an optical pyrometer, a radiation pyrometer, thermocouples, a resistance thermo-The Social Science office will be meter, an adiabatic calorimeter, orsat

to Management Convention

Professor H. P. Dutton, head of

Professor Dutton also will be present at a meeting of the American There will be a meeting of the Society of Mechanical Engineers.