



Dinners Will Be Optional at Novel Junior Formal in Drake on Feb. 12

Bids Now on Sale at Three Dollars

Outstanding in the social functions of the present junior class will be the Junior Formal to be presented at the Main Ballroom of the Drake Hotel on Friday night, February 12. Bill Hogan and his famous "California Cavaliers" orchestra will play for the dance. Plans have been made by the junior class social committee to make the Junior Formal the most unusual and pleasant dance ever presented at Armour.

Bids Now on Sale

Bids were placed on sale late last Friday afternoon by Stanley Healy, junior class social chairman and may be purchased from committee members: C. W. Dunbar, E. Hanson, C. W. Modersohn, S. M. Osri, M. Schuman, G. L. Stober, and I. Thomas. The committee promises to incorporate many new features which will be revealed in the next issue of the *News*. At the dance, programs will be given out, and favors in the form of bracelets will be given to the young ladies.

Bill Hogan's orchestra has an impressive record including engagements at the Los Angeles Biltmore Hotel, Arizona Biltmore at Phoenix, Jefferson Hotel in St. Louis, Baker Hotel in Dallas, Edgewater Beach in Chicago, and most recently, the Cocoanut Grove in Chicago. He has played on the RKO Theater circuit throughout the middle west, and appeared at the Chicago Palace Theater recently. Bill Hogan's California Cavaliers have also played the music for twenty-nine movies.

Feature Rhythm

Rhythm is the slogan of the band. "If a dance orchestra wants to be successful it must have, above all else, good rhythm," says Bill Hogan. "All leading bands play a different style of music, and they all have their own peculiar style of rhythm. Dancing is a rhythmic art; without rhythm, dancing is almost impossible. Therefore, you will find that" (Continued on page four)

Dr. Hotchkiss Back From California Trip

Dr. Hotchkiss returned last week from California where he and Mrs. Hotchkiss spent the holidays. Although the trip was primarily to visit their daughter and son-in-law, Mr. and Mrs. E. Stanton Foster, who are living in Berkeley, Dr. Hotchkiss was called into conference, both in San Francisco and in Los Angeles, in reference to some of the industrial policies which California business leaders are in process of developing. Aside from momentary labor troubles, economic expansion, taken together with changes in industrial, political, and social conditions, are creating new problems for management with which leaders in the West are deeply concerned.

Widely Known Consultant

As consultant for several leading concerns on the west coast while Dean of the Graduate School of Business at Stanford, Dr. Hotchkiss had gained a wide knowledge of practical management problems in the far West. He was also Chairman of the California Research Council and was active in connection with the office of the State Engineer, the State Chamber of Commerce, and the San Francisco Industrial Association. Through these activities he had been in intimate contact with a large range of public and private enterprises.

Visited California Tech

During this trip west, Dr. Hotchkiss also visited the California Institute of Technology and the engineering schools at Stanford and the University of California in connection with some of the items of Armour's development program. He reports the keenest interest at these schools and among industrialists in the progress Armour is making.

Faculty Women Hear History of Sanitation

Professor Vagtborg presented an illustrated lecture on the subject "The Story of Sanitation in Chicago-land," at a meeting of the Faculty Women's Club held last Wednesday. The slides portrayed the history of water supply, from hand bucket down at the river, to wells, and finally to the modern water supply units. Two or three of the slides showed the means by which sewage is treated. A possibility soon to be realized, according to Professor Vagtborg, is that the Chicago River will be as pure as it was when the pioneers used it for drinking water. Shortly after the lecture, the members adjourned to the Faculty Grill to view curios and heirlooms presented for exhibition by the members of the club. One of the curios was a bed warmer used in the last century. Professor Penn had a silver knife handle on exhibit dated 1817, and an inscription bearing the name of his great grandfather, Jacob Harm Penn.

The club will visit the Art Institute Friday, the tour being personally conducted by Dean Kelly, dean of the Art Institute.

Conference Course Holds First Meeting

Sponsored by Armour Institute, a conference course in plant engineering and maintenance for selected executives got under way last Friday evening when the first meeting of the series of fifteen was held at the LaSalle Hotel. Professor H. P. Dutton, supervisor of the series, was leader of this first conference, his subject being, "Present tendencies and points of view in plant engineering." Mr. J. D. Cunningham, chairman of the board of trustees, and Dr. W. E. Hotchkiss, president of Armour Institute, gave short introductory talks to introduce the special course.

Cooperate with Industry

This is the first attempt of any educational institution to offer its services in such a way to modern industrial organizations. The desire of these latter to cooperate is demonstrated by the enrollment of thirty companies varying in interest from the Illinois Bell Telephone Company to Sears Roebuck and Company. Each of the meetings resembles a trade conference in form, offering opportunity for exchange of ideas, experiences, and points of view, and being preceded by an informal dinner.

Faculty to Speak

Each meeting presents a guest speaker who is a specialist in the field to be discussed at his meeting. W. J. Austin, president of The Austin Company of Cleveland, H. P. Kendall, president of The Kendall Company of Boston, and C. P. Wood of Lockwood Greene Engineers, Inc. of New York, are some of the out of town speakers who will supplement the work of Chicago specialists. Professors Finnegan and Nachman are included in the list of speakers.

March Selected for Premier Soph Dance

Inaugurating their social season for the coming semester, the sophomores will hold their winter dance Friday, March 5. The social committee, headed by B. G. Anderson, has combined its efforts to choose a location which will be convenient and well suited for such a purpose, and an orchestra whose music will be enjoyed by the dancers. Thus far the Hotel LaSalle and the Knickerbocker Hotel present the best possibilities for suitable locations. Although the committee has reviewed several prominent orchestras, no definite choice could be stated. The bids will probably be limited in number and will be out sometime next month.

Athletic Events Free To All Honor 'A' Men

Honor "A" men of the future will be admitted gratis to all Armour home athletic games according to a ruling passed last Thursday at the A. T. S. A. board meeting. This ruling makes it possible for all Honor "A" members, past, present, and future, to attend all home athletic events upon presentation of the society key. This custom is in practice at most schools, and it was thought fitting to give this privilege to Honor "A" members.

E. Wenger Presented Before Armour W.S.E.

Mr. E. C. Wenger of the Portland Cement Association addressed the local student branch of the W.S.E. at its meeting last Friday. His talk on "Highway Improvement" stressed the need for street improvement. Some of the problems confronting the municipal engineer are: which streets should be improved first, should the street be widened or not, what type of street slab should be used, how should the intersecting streets be joined, how much room should be left for parking, what provisions should be made for pedestrians, and what system of traffic control should be used? Mr. Wenger also gave a discussion of the types of surfaces best suited to modern traffic demands and the types and quality of materials used in producing them.

This was the second visit of Mr. Wenger to Armour. He addressed the W.S.E. last semester on the topic of "Cement Highway Design."

Second 'Dad's Night' Plans Being Formed

Following the success of the recent "Dad's Night," plans are being tentatively formulated for a somewhat similar affair to be held next year. This future event will consist of a banquet with entertainment, but it will not be followed by an athletic contest.

Temporary plans call for all athletic teams to be present—each team seated at separate tables. Speakers will include individuals of Armour and also prominent men from other localities. Music will probably be furnished by the Tech Musical Clubs and there will also be acts by individual entertainers. All plans are very tentative however, and nothing definite will be formulated until next year.

A. P. Schreiber, publicity manager of Armour, and C. W. Dunbar, first vice-president of A.T.S.A., were in complete charge of this year's affair, and all credit is due them.

Chemical Class Visits Lead Refining Plant

Despite the cold, rainy, weather last Wednesday, the senior chemical metallurgy class journeyed out to East Chicago to inspect the International Lead Company. The group, led by Prof. Carpenter and O. Zmeskal, was guided through the large refining company by the superintendent and a number of engineers.

The principles developed in the metallurgy class as industrially applied and some of the latest developments in metallurgical science were graphically illustrated to the chemicals. Chief among the new processes was the white lead process developed by Elmer Sperry of gyro-scope fame. This process is considered better than the Dutch process due to the fact that it can be precisely controlled at all of its stages.

The International Lead Company, a unit of the Anaconda Copper Company, turns out 96,000 tons of lead yearly and 80 tons of white lead daily.

At the finish of the inspection trip the visiting chemicals were treated to a dinner at the company's dining hall through the courtesy of Mr. Stockdale, superintendent of the plant.

Foundation Begins Work on X-Ray Lab

New Assistants Added To Organization

Expanding their present quarters and equipment, the Research Foundation has started work on an X-ray and a spectroscopic laboratory which will be completed soon. Dr. Zigar, professor of physics at the Y. M. C. A. College, will have charge of the X-ray laboratory. Dr. Zigar was awarded his degree by the University of Chicago in 1931 and has been working at the present time setting up equipment for the laboratory. Dr. Hougan of the University of Chicago, who joins the Armour faculty next semester, will also devote time in the research laboratory. He will teach chemical engineering courses. Professor W. W. Colvert, physics instructor, will do special research work in the new spectroscopic laboratory. Other professors who will devote extra time in the research laboratories are D. Roesch, J. C. Peckles, J. S. Thompson, H. McCormack, C. G. Anderson, and A. H. Carpenter. Professor J. B. Finnegan, who is assisting Dr. T. C. Poulter, has now moved his office into the research rooms. The new laboratories are expected to be ready for use about the first of next month.

'Engineer' Features Story by Dr. Poulter

Scientific research in geophysics at "Little America" in the Antarctic by Dr. Thomas Poulter will be featured in the next edition of the *Armour Engineer and Alumnus* to be distributed during the first week of February.

Many interesting articles will be contained in the new issue of the publication according to the editor, Prof. W. Hendricks. Armour graduates and faculty members have contributed several feature articles on engineering and scientific subjects which will be published in the magazine.

Among the subjects to be discussed in the February issue of the *Armour Engineer and Alumnus* are the electronic organ; the new ocean-vessel, "Queen Mary"; and the invention, development, and history of the teletype machine by H. L. Krum, an Armour graduate.

Famed Engineer Will Talk on Leipzig Fair

Dr. Felix Iserman's speech on exhibits at the Leipzig Trade Fair will be featured at the special A.S.M.E. meeting next Tuesday at 11:30 in Science Hall. Dr. Iserman is a noted German engineer and is now travelling through the United States on a "good will" tour to promote interest in the Trade Fair. The talk will be based mostly upon the "machining of metals," and in order that mechanical engineering students may fully benefit by it, all junior and senior classes of mechanical students will be dismissed. Twenty-four engineering booklets have also been received from Germany in an attempt to promote interest among mechanical engineers in the Fair. The booklets are now in the Automotive Laboratory and may be used by any students.

At the meeting held last Friday at 10:30 in room D, Mission, three student speakers were presented. L. J. Janas spoke on "High Speed Diesels," C. E. Hockert on "Fans" and M. J. Loftus on "Shaking Forces." The first two speakers were rated by judges in order to improve their speaking ability. Professor Daniel Roesch spoke shortly on the purpose of the ratings, describing them as a method of helping one "step himself up." President S. M. Miner told of the additions to the donated books which will be presented to the most active members of the A.S.M.E. The list now includes books on "Fan Engineering," "Diesel Engineering," and "Refrigeration" and handbooks of various types.

PLAYERS WILL PRESENT BACKWOODS COMEDY IN MISSION FRIDAY MORNING

Kidnapping and Lynching Party Provide Drama For This Farce on Vermont Life, 'The Quarry' by J. Aubrey Clark

PROFITS OF LAST PLAY ALLOW FREE ADMISSION

Tickets on Sale for Downtown Concert

Continuing the precedent set by their first downtown concert last winter, the Armour musical clubs will perform at the Goodman Theater on Thursday, February 25, at 8:15 p. m. Last year's concert was so enthusiastically received that Director O. Gordon Erickson predicts an early sellout. The tickets are priced at fifty cents, and all seats are reserved. They may be purchased from any member of the Glee club or orchestra.

One of the interesting features of the program will be the Glee club's rendition of "Summertime" from "Porgy and Bess," the music for which was written by George Gershwin, and arranged by George Danforth, an Armour sophomore. The orchestra is also working on several new numbers.

The musical clubs hope to be able to finance several concert trips for next spring. The proposed trip to Pontiac on January 22 has been postponed, but further possible trips may heighten the experience and prestige of the clubs.

Radio Club to Have Voice Transmission

Radiophone communication will soon replace the wireless telegraphy which at present occupies the Radio Club. The change from code work to radiophone, for some time a bone of contention, was finally decided on, and tomorrow or Thursday will see the first use of the new equipment.

Members of the club have done the work necessary to adapt their transmitter for the sending of voices. Roy Colin, president of the Radio Club, has been especially busy with this work.

As the phone communication will be intelligible to those unversed in the mystery of Morse Code, visitors will be invited to come up at certain hours which will be announced later. Meetings of the club are now held on Thursdays, at which time any prospective members may present themselves at the club rooms on the second floor, third entrance Chapin. Next semester will see the return of Norman Pulliam, former member.

A party is being considered, and will probably be held, for an affair last year netted sixty some dollars. If it is held, the surroundings will be very inviting, as a siege of house-cleaning has just passed.

Chemists Club Offers Talk On Autochromes

Camera enthusiasts should be pleased to note the invitation extended to them by the Camera Chemists of the Chicago Chemists Club to attend their meeting tonight. Dr. C. O. Schneider, the well known authority on autochromes, will speak on "Capturing the Chromatics."

Photography has been Dr. Schneider's hobby for over thirty years, the last ten of which have been devoted to autochromes. He is considered one of America's outstanding color pictorialists. Dr. Schneider's color photographs are not merely tinted prints, but are actually colored as they are taken in the colors of the natural setting. He uses the lumiere process which was developed in France.

The meeting will be held tonight at 8:00 p.m. in the Chicago Chemists Club rooms at the Hotel Stevens.

Under the guidance of Mr. W. B. Fulghum, the players will present their second play of this semester on Friday, January 22 at 10:30 in the Mission. Their choice of play is the farce of J. Aubrey Clark, "The Quarry." The production of this play is in many respects different from their previous problem play. "Waiting for Lefty" was produced primarily to stimulate social thinking by the students, whereas "The Quarry" is being produced primarily for amusement.

No Admission Charge

Since the last play was profitable enough to cover this production's expenses, there will be no admission charged.

The final cast, as selected by Mr. Fulghum consists of:

M. EphraimDeputy Sheriff
E. WorcesterReporter
F. M. MacConnell

..... Higgins, the sheriff
R. WeissmanGus, the accused
R. I. JaffeeEm Cady
J. MashmanZeke Tasker

As the cast might suggest, the play has for its setting the backwoods of Vermont. To further increase the atmosphere of the play, the entire dialogue is carried on in typical backwoods style. The play itself concerns an alleged kidnapping of one of the town girls by the town imbecile. Complications set in and a lynching party is organized. With the mob pacified, the play comes to a very dramatic and unexpected conclusion.

Kidnapping Involved

On the technical staff are Sidney Miner, assistant director; Joseph Kubert, stage and lighting manager, Frank Hanneman, property manager, (Continued on page four)

Meat Packing Topic at A.I.Ch.E. Meeting

"The Meat Packing Industry" was the subject of an informative talk delivered by Mr. Tolman, engineer for the Wilson Packing Company, before members of the A. I. Ch. E. last Friday.

Among the most important problems facing the meat packing industry, according to Mr. Tolman, are air conditioning and the effective control of humidity in preserving meats. Although great progress has been made in these fields, a great deal remains for the sanitary and chemical engineer to accomplish, especially in humidity control.

Utilize By-products

Mr. Tolman emphasized, however, that the many and varied chemical processes arising from the utilization of by-products offer a great variety of opportunities for the chemist and chemical engineer. At the present time these by-products are the industry's greatest source of profit. As an illustration of recent developments, he exhibited a specimen of a widely used insulation board made exclusively of hair.

The field of hydrogenation of fatty oils is one in which Mr. Tolman has been engaged for some time. In spite of the great potentialities of this process, comparatively little research work has been done. Mr. Tolman believes that the future will bring great progress in this interesting work.

Bacteriology Necessary

For work in the meat packing industry, Mr. Tolman stated, four years of the study of general chemical engineering is insufficient. In this and many other industries a general knowledge, not only of chemistry, but also of biology and bacteriology are becoming increasingly necessary.