



Jack Russell and Floe Dare Featured at Sophomore Dance

Affair Will Be Held This Friday at Medinah Athletic Club

Next Friday evening, February 10, the long awaited social of the season, the sophomore informal, will be held in the Grand Ballroom of the Medinah Athletic Club. According to reports this promises to be one of the really fine dances of the year and should be well worth the while of all who attend.

Great pains have been taken by social chairman, Bud Murray, and his committee, Fred DeMoney, Bill Grosse, Joe Hartman, and Elmer Ratzel, to make Friday eve a dance which will not soon be forgotten. To make sure that the music will be at a par with everything else, Jack Russell, and his WGN orchestra, featuring Floe Dare, as vocalist will provide the musical side of the occasion. Jack recently completed an engagement at Melody Mill Ballroom and his success speaks for itself.

Has Ample Lounge Facilities

When the Grand Ballroom of the Medinah Athletic Club is filled with the harmonious tones of the orchestra and the feminine pulchritude of Floe Dare, nothing else could be added to bring about that exhilarating feeling to everyone as he begins the toil of the new semester, except to add that the tax is only \$1.75.

For all those who are not so well versed in the art of "tripping the light fantastic," there are ample lounge facilities, part of which consists of a balcony overlooking the dance floor. There is also a private check room to be used exclusively by those attending the dance, and for all those who drive a parking lot a block square is provided.

To Take Souvenir Pictures

The bids, which are of a black and white design, may be procured from any member of the social committee on the bid committee, of which D. Crego is chairman. This gala affair will begin at 9:30 and will last until 12:30 and for all those who want a souvenir of the dance, pictures will be taken in the lobby outside of the dance floor.

Moreton Takes Leave of Absence Hendricks in Charge of 'Engineer'

President H. T. Heald granted a leave of absence to Professor D. P. Moreton. Professor Moreton was the general manager of the *Armour Engineer and Alumnus* and the head of the public relations department of the Institute, as well as professor of direct current machinery. He officially left the school February 1.

Hendricks To Head 'Engineer'

Professor Walter Hendricks, chairman of the English department, was appointed editor-in-chief of the *Engineer*. He will have jurisdiction over the editorial and business policies of the publication with an advisory staff of three faculty members. Professor Finnegan will represent the engineer's viewpoint, Professor Thompson will oversee the scientific aspects of the article, and Professor Larkin will read the article to judge it from the business or economic angle. It is thought that this system will cover the varied viewpoints so necessary to producing authoritative and interesting technical articles. Professor Hendricks will be in complete charge and will have student assistants that will help to arrange articles and file photographs and cuts.

'Morgue' To Be Established

A "morgue" has been arranged in the office of the *Engineer* whereby all cuts of the *News*, *Cycle* and the *Engineer* can be located. Students that have been selected by Prof. Hendricks are: Stephan Finnegan, Sid Heenan, Gene Kalnin, John Ratto and Delano Wessels. The photographs and cuts will be separate. The cuts will be divided into four groups: portraits; buildings and grounds;

NOTICE
Any students interested in joining the staff for the next year are asked to attend a meeting today at 12:30 p.m. in the NEWS' office second entrance Chapin — third floor.

Faculty Discusses Work of Surveyors In WCFL Broadcast

Continuing the series of talks over WCFL a discussion on surveying was carried on by Professors Penn and Stevens of the Civil Engineering department, and Professor Larkin of the Social Science department, a week ago at 12:15.

Land surveying since the beginning of the United States was discussed. The original thirteen states of the United States were not secured in any orderly manner, and accordingly all boundaries and marks are very irregular and indefinite. Since 1800 a land law has been enacted regulating the division of land into townships and sections.

Corrections for the curvature of the earth are made in the laying out of townships. The closest approach to correct land measurements must be made in the form of a trapezoid. Surveys are based on Greenwich, England, for zero longitude, and the equator for zero latitude. Increased demands for accuracy however, have demanded that a reference point be established within the United States itself. This necessity is caused by the fact that a slight movement of the North American Continent in an easterly and westerly direction is noticeable. This reference point is located on Mead's ranch in Colorado. Measurements of such accuracy as to notice such microscopic movements of continents is only noticeable by making measurements of the stars with astronomical instruments.

Microscopes was the subject of the talk the week before over the same station. Professors Colvert, Copeland, and Zeigler carried on the discussion.

athletics and activities and miscellaneous. Each will be arranged in a paper folder which has been properly recorded and filed according to number. Then if a cut has a number B-6, it can instantly be found to belong into the building group and

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Prof. Walter Hendricks

the photograph found by a survey of the file.

"We expect and hope to build from the foundation that has already been established," said Professor Hendricks when interviewed last Friday.

Average distribution of the *Engineer* is about 14,000 copies and the maximum number ever printed for one number was 22,000.

Professor Moreton began his work with the publication 3 1/2 years ago the last issue being his 14th issue. Students were in complete charge of the publication before Professors

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Prof. Roesch To Instruct New Engineering Course

A new course in Diesel Engineering and Design will be available to junior automotive students next semester. According to Professor P. C. Huntly, director of the mechanical engineering option, the course includes such topics as exposition of cycles, valve timing, brake horsepower, fuel characteristics, gas laws, injection systems, and design features of the compression ignition system. Two hours per week will be allotted for the course. It will be taught by Professor Daniel Roesch of the automotive engineering department.

As a continuation of M. E. 511, "Metallurgy and Heat Treatment as Applied to Welding" will be taught next semester by Prof. W. A. Pearl. The course will consist of advance study of microstructure before and after welding and investigation of heat treatment and stress relief.

Appoint Three New Men for Faculty Roles

President H. T. Heald announced last Friday the appointment of three new members to the faculty of Armour Institute of Technology. Assuming their positions immediately, the appointees will augment the present civil, mechanical, and fire protection engineering staffs.

First of the appointees is Mr. Clayton O. Dohrenwend, who returns to the Institute as a civil engineering instructor. Mr. Dohrenwend had previously taught at the Institute, leaving his position for doctorate study at the University of Michigan, in September, 1937. He holds a Bachelor's and Master's degree from Rensselaer Polytechnic Institute, as well as a Master of Science degree in physics from the same institution.

Studied at Case and Yale

Dr. R. C. Minarik is the new appointee in the mechanical engineering department. A graduate of the Case School of Applied Science, Dr. Minarik received his Master of Science degree from Yale University and his doctor's degree from the University of California in 1934. From 1933 to 1933, he was instructor in mechanical engineering at the University of California. Author of many technical articles, Dr. Minarik has been engaged in extensive consulting work, having been chemist of the Ohio Chemical Company, consultant to Columbia Axle Co., research and development engineer for the Vlechek Tool Co., and engineer-in-charge for the San Francisco Bay Region Tire Survey.

Sorensen Takes Insurance Job

Mr. Sven Anderson, newly appointed instructor in fire protection engineering and a graduate of Armour Institute of Technology in 1932, returns in a teaching capacity when he assumes his duties this term. He succeeds Mr. Jarl T. Sorensen, who has been an instructor in fire protection engineering at the Institute for the past two and one-half years, who received an appointment on the staff of the Insurance Company of North America.

Schommer Visits Large Corporations, Objective Is Placement of Seniors

Continuing his efforts to have as many Armour men placed as possible, John J. Schommer, director of placement, made personal visits to many large companies last week. He visited steel companies, engineering firms and various other corporations talking over the possibilities of employing Armour graduates with the personnel managers.

During the last semester all but four members of the '38 class have been placed which shows a very good record for the placement department. Many positions await the June graduates as letters received recently seem to indicate. Many upperclassmen were employed as mail clerks, department store clerks and delivery clerks during the Christmas holidays through the efforts of Mr. Schommer.

Five Awarded Year Tuitions

Announcement of the winners of freshman scholarships was made by the Dean's office last week. The five winners and their high schools are: William T. Brazelton, Schurz; Hugo H. Geissler, Lindblom; David Roth, Tuley; Fred Sternberg, Aurora; Marvin D. Tornga, Calumet. The alternates chosen are: Stanley E. Asplund, Lane; Aaron Kolom, Crane; Theodore B. Novey, Tilden; Philip Rosenberg, Roosevelt; Warren E. Spitz, Hyde Park. Due to the withdrawal of Roth and Sternberg, Kolom and Rosenberg will serve in their places.

The scholarships are awarded twice annually to incoming freshmen, five for the February class and ten for the September class. Selection of the winners are made on the following basis: a high rating in the competitive exam in physics, chemistry, and mathematics, and a satisfactory rating in English; a successful high school career, in both studies and extra-curricular activities, and a personal interview with members of the scholarship committee.

Activities of the appointees in their various schools are: Phillip Rosenberg, basketball, baseball, football, gymnastics, student publications and the musical club; H. H. Geissler, debating and chemistry club; W. T. Brazelton, baseball, track, and Y.M.C.A.; A. Kolom, basketball, literary publications, national honor society, and valedictorian of his class; M. D. Tornga, baseball, basketball, track, tennis, and student publications.

New Lasker Boiler Will Be Entirely Self-Regulating

In accordance with the modernization and improvement program for the Armour heating and power plant which was begun last spring, a completely automatic control board is being installed and prepared for operation. Housed in a neat, modern designed, black cabinet, the board houses a Republic steam flow meter, Upstack draft gauge, Overfire gauge, Air duct gauges, a Smoot controller and a flue gas temperature recording device. Also included are the controls for manually operating the boiler room equipment. A system of illumination from the rear, enables the controls to be easily read from all directions.

Boiler Has Forced Draft

A Westinghouse, two cylinder, air compressor driven by a three horsepower electric motor is the heart of the system. Operating under a pressure of 40 pounds, the compressed air operates plungers which control the operations of the blower, stoker and flue adjustments.

After the representatives from the Republic Meter Company examine the installation and instruct the boiler room attendants in its operation, the board will be placed in service. The new 450 H. P. Lasker "Steam Producer" Boiler will be controlled by this unit. The boiler is fed by two Detroit Roto stokers and is supplied with a forced draft by a blower built by the Clarage Fan Company. This fan is so well balanced that the draft from the 175 foot chimney causes the fan and the ten horsepower electric motor, attached to it, to rotate continually on its ball bearings.

Plant Supplies A.C. and D.C.

To prevent the chimney from becoming a smoke menace, a three inch layer of special boiler lining was installed. This lining extends from the grate, around the tubes, to a height of three feet. Approximately one ton of this special cement was used. This layer or lining of the boiler is heated red hot and consumes the smoke, thus preventing its appearance from the huge stack. Another feature of the boiler is the siphon arrangement for removing the fly-ash from the tanks. This apparatus removes the ash and injects it back into the flames to be consumed.

The power plant's main purpose is to generate the electric current (D. C.) used at the institute. The buildings are heated from the exhaust steam from the engines driving the

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New Staff To Be Announced at Banquet; Poulter Main Speaker

Poulter To Speak of His Seismographic Antarctic Work

In his talk before the members of the *Tech News* staff at their annual banquet this coming Thursday evening, Dr. Thomas C. Poulter will describe the processes of exploring the Antarctic continent by means of the seismograph. He will bring along a replica of his original equipment, valued at \$10,000, and motion pictures to demonstrate the technique used in obtaining data.

Seismic observations depend upon the principles of reflected and transmitted wave fronts travelling through the earth's surface. A charge of explosive is set off at the surface, generating a wave front. This wave front then travels down into the earth be-

PRINCIPAL SPEAKER



Dr. Thomas Poulter

neath until it strikes a layer of some material which is different from that through which it has been travelling. At that point some of the force of the wave will be reflected back up to the surface of the earth where it can be detected by a pair of earphones. By measuring the time required to complete the entire trip, and knowing the velocity of wave travel in the given

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Add Many Graduate Subjects to Night School Curriculum

New courses are being offered this semester in several of the departments by the graduate division of evening school for those desiring advanced degrees and for other qualified students. In the chemical engineering department a course in ceramic engineering will be taught, including a study of the basic engineering and chemical processes involved in vitrification, production of refractories, and cement manufacture. Dr. H. G. Fisk and Dr. H. G. Whittaker will be the instructors in this course.

The Theory of Elasticity is a course offered in the civil engineering department which is concerned with the mathematical and laboratory methods of investigating stresses. Problems applicable to both civil and mechanical engineering will be studied under Dr. H. Reissner. The civil engineering department also offers a course in The Chemistry of Sewage Treatment, emphasizing practical applications, with Dr. F. W. Mohman and Mr. E. Horwitz as instructors.

Applied Plastics is a new course taught by Mr. J. Delmonte in the mechanical engineering department which treats the manufacture of plastics from the point of view of the process equipment and physical characteristics of the product obtained. The mathematics department is offering a new course entitled Modern Higher Geometries in which non-Euclidean, projective, and inversive geometries as well as their applications to relativity and to space configurations will be studied. Dr. M. Sadowsky is the instructor.

The administration states that additional courses will be offered upon evidence of an adequate demand.

Speeches, Singing and Movies To Provide Entertainment

Armour's journalists will have their night to howl this coming Thursday evening at the annual *Tech News* banquet. This event is a high light in the year's activities for the scribes, and is always well attended by all of the staff. It will be held in the Union luncheon.

Arrangements for this year's banquet have been placed in the hands of Robert Jaffee, the present managing editor of the *News*. He has planned for a full evening of eating, singing, movies, and speeches. All the members of the editorial board, the publications board, the dean, the president and other notables have promised to be in attendance.

To Display Valuable Equipment

The speaker for the evening is to be Dr. Thomas C. Poulter. He will address the group on "Seismographic Work in the Antarctic." He has promised to bring along a duplicate of the equipment which he used for this work on the second Byrd expedition. It is a masterpiece of the instrument makers art and is valued at \$10,000. Dr. Poulter also will bring along some pictures of his seismic activities to show the technique that was used in taking data in a rapid and efficient manner.

Dinner is to be served promptly at 6:30 to allow the students attending the banquet to get home at a reasonable hour. Between the courses of the meal there will be group singing. All of the school songs and a group of popular tunes have been printed up for the occasion.

Install New Staff

After the dinner a short address will be made by Professor Hendricks, who is the chairman of the advisory publications board. Following this the announcement of the new staff for the coming year will be made.

Presentation of the new staff will be made in a more formal manner at this banquet than has been the practice in former years. Each man will be told exactly what his duties are and he will be presented with his official credentials. This will serve to give a little more honor to the positions than has been placed on them in the past and will serve to establish the functions of each office in a clean cut manner. It's hoped that this will make the *News*' staff function more smoothly.

After the staff has been presented, the Dean, Dr. Tibbals, will address the group. He will be followed by President Heald, who will also say a few words. Dr. Poulter, the speaker of the evening will then be introduced.

Musical Clubs Going on Tour

Armour Tech's Musical Clubs are now casting off anchor for the second semester voyage. The first port toward which they will steer their vessel is Dwight, Illinois, and should arrive there one week from Friday, February 17, in time to refuel and entertain the wharf-folk with a few of their well-rehearsed sea-chanteys and instrumental ditties.

February 23 will bring the good ship and its musical crew back to Chicago with a stop at Grant Park's famous Goodman Theatre. For the past three years the Musical Clubs of Armour Institute of Technology have made this port and have never left it without giving the assembled Techawks the "thrillingest" concert imaginable.

Here are the old timers with salt behind their ears that will spin yarns about Barnacle Bill, Singapore Lil and all the rest: "Girl-in-every-Port" Danforth, "Handsome" Charleston, "Pee-Wee" Doolittle, and "Limehouse" Yeakle. The lads that are just gaining their sea legs are "Kid" Hansen and "Rush" Gromak.

Tilden Tech High school has invited the group over to their school for a concert Friday, March 17. Future dates will include Rotary Club and Union League Club luncheons, CBS, Mutual Broadcasting System.