Install New 450 H.P. Lasker Boiler

School Growth Requires Plant Enlargement

A modernization and improvement program for the Armour heating and power plants, which will cost \$25,000, was started last week. The improvements, which will provide a new and more powerful stoker-fired boiler, will be completed and in operation by the first of March.

Wrecking and removal of the old boiler, which started operating September 27, 1902, is almost completed. The boiler being demolished dan, will be present. There will also is a 350 horsepower Stirling boiler, be present representatives of the colfired by a Harrington stoker. The last improvement to the old plant replaced the Greene type stoker by the Harrington type.

Larger Plant Needed

The new plant will include a 450 horsepower Lasker boiler and a Detroit multiple retort stoker. Mr. Lasker, builder of the boiler, is in complete charge of the installation. Brickwork and foundations of the boiler will be done by the O. H. Warwick Co.

Increasing the size of the plant is necessary due to the growth of the school in recent years. The plant supplies all the electrical power used at the Institute, generating over 10,000 amperes during peak load. The exhaust steam is used to heat the Institute's buildings.

Forced Draft Type

The new boiler embodies all the latest improvements in boiler construction. A feature of the boiler's design is the cooling of walls by a circulation of water through a lining of pipes. This is necessary due to the excess heat generated by the forced draft type of boiler. The boiler will have three drums, the steam being taken from the top drum, which is well above the water level, thus insuring dry steam at all times.

Mr. John Allen, stationary engineer, who lit the first fire in the old boiler, will be in charge of the plant operation.

Prof. Freeman Talks on First Program of New Science Series

Opening the third series of its type last Saturday evening at 7:30 p.m. engineering department presented the first program of its applied science series. Ernest H. Freeman, professor and director of the department of electrical engineering spoke on the "Contributions of Things Electrical to Our Civilization." The programs as in the previous series, are under the direction of A. P. Schreiber, publicity officer.

In his talk Professor Freeman attempted to readjust the audiences' perspective, comparing present condi- | icals. tions to past conditions in order to illustrate that which electricity has accomplished. Developing the history of electricity and the manner in which man strived to domesticate it, he then expressed the actual means by which it was conquered.

ity was put was the carrying of mes- | their new comedy "The Proposal." sages by telegraph," Professor Free- Guild officials were of the opinion that man continued, "the investment in the play, originally scheduled for a this business is five hundred millions presentation on Jan. 19, should be of dollars." "The telephone is now the staged sometime during the second most popular means of transporta- week of the new term. tion" over which there are about

the telephone industry which repre- girl, Natalya. The sets are nearing sents an investment of over seven bil- | completion, costumes and the various lions of dollars, he then spoke of the props have been provided, and the time saving element which he esti- members of the cast are now well mated at two and one half days for | versed in their lines. All that recountry.

He stated that the second principle | tically ready for public approval. to which electricity was put was that of lighting. The manner in which it affects our work and play at night and the modern illumination and its party elsewhere than in the Mission. is just what should be avoided. The methods would be inappropriate. ed by Dr. Roethlisberger and of-all students is that because the wash advantages were then discussed.

a sequel to this talk will be presented next Saturday evening with Doctor Freeman again as guest speaker.

Horner to Present Poulter with Award

Hon. Henry Horner, Governor of Illinois, will present Dr. T. C. Poulter, Director of Armour Tech's Research Foundation, with the Congressional Medal for polar exploration at a formal banquet in the Red Lacquer Room of the Palmer House on Jan.

Rear Admiral Richard E. Byrd, Rear Admiral Hayne Ellis, Commandant of the Ninth Naval District, and Brigadier General Philip B. Peyton, Commanding General at Fort Sheri- new arrangement. leges, universities, scientific and engineering societies, business, and the government service throughout the country.

Junior Formal War. 5: Choose Claridge Band

Palmer House Ballroom Will Provide Setting

Discussion of the plans for the Junior Formal featured the meeting 9 a.m. to 3 p.m. which was attended by about onethird of the junior class last Friday. The social committee announced that after an extensive survey of the musical field, Gay Claridge has been retained to furnish the music. This orchestra is well known to college students, they having played for several functions held by the University of Chicago and De Paul.

The spacious Grand Ballroom of the Palmer House will be the setting for four and one-half hours of dancing. The \$5.50 bids include a \$4.50 dinner and take care of all checking and waiters' tips. Bids may be purchased from any of the officers of the junior class or members of the social committee composed of B. Anderson, chairman, I. Footlik, W. Stuhr, and D. Jacobson.

Bolton Anderson states that he has made arrangements with a firm of tailors to furnish special low rates to those students who wish to rent tuxedos. Single breasted suits may be had for \$3.25, double breasted suits for \$4.25, and tails for \$5.00 or \$7.00. Plans were also formulated whereby anyone wishing to buy a bid on the installment plan may do so by making payments of fifty cents or more. over station WCFL, the electrical Payments will be accepted every Monday or Friday by L. Bain in D Mission from 12:30 to 1:00 o'clock.

Toward the end of the meeting one of the chemicals moved that the junior class should appropriate money to buy medals for their touchball champions. After much discussion, twenty five dollars was appropriated to buy eleven medals for the chemicals whose victorious season was marred only by their scoreless tie with the sophomore chem-

Comedy Postponed by Armour Players Guild

After lengthy discussion, the Armour Player's Guild decided last "The first service to which electric- | Wednesday to postpone the opening of

Primarily, the reason for the postthirty billion conversations annually." | ponement is the difficulty in getting a Emphasizing the enormous size of capable actress to portray the Russian every man, woman, and child in the mains is the filling of that lone feminine role, and the play will be prac-

The annual Player's Party was also discussed in the meeting. An attempt is being made this year to hold the A committee consisting of S. Kreiman, The second program of the series, C. Mac Aleer, and B. Sternfeld were appointed by M. Pantone, Guild president, to plan a gala evening about the first of the month.

Advance Registration Announced by Heald

H. T. Heald, acting president of Armour Institute, announced last week that students, exclusive of incoming ones, may register during the week of January 17 to 22 inclusive for the coming spring semester. This registration week is in addition to the regular registration days, February 3 and 4. This extra week is for the purpose of avoiding confusion and waiting on the two regular registration days, and students who are reasonably sure of their program next year should take advantage of this

The procedure of registration is as follows: make out a tentative program from the programs posted in the foyer of the Main Building. Then fill in registration card and in return receive class enrollment card and bill for tuition and fees from the Registrar's Office. The student is then requested to pay his bill in the Cashier's Office on the second floor of the Main Building.

When the above procedure has been completed, students may enroll in classes on Saturday, January 22, from 9 to 12 o'clock; or Freshmen and new students on Thursday, February 3, 9 a.m. to 3 p.m., and all others on Friday, February 4 from

Further information may be found on the bulletin board.

Dr. Poulter Goes on Lecture Tour

To Deliver Eight Lectures on Pressure Research and Polar Trips

To a large group of listeners in midwestern and eastern cities, Dr. Thomas C. Poulter, head of the Research Foundation, will deliver a series of eight lectures or more in all, on a tour during the next week.

Dr. Poulter started on his tour yesterday afternoon with Minneapolis as his destination. He is schedday at the University of Minnesota. With the exception of these two lectures, the remaining lectures will be addressed to various engineering and chemical societies.

Wisconsin, New York on Itinerary By tomorrow Dr. Poulter will be in Madison, Wisconsin, to deliver a lecture there. After this, he will head for Appleton, Wisconsin, prepared to deliver two lectures the following day. Milwaukee will be his next goal, and one lecture will be given in this city. Four days later, he is to be in Buffalo, New York. Two lectures will be delivered there, or. Tuesday, January 18, and the following morning he plans to be back heme again. His lectures are to be concerned with two subjects: the developments in the ultra-high pressure field of research, and the scientific phases of his polar explora-

500,000 Lb. Bearing Pressures

The ultra-high pressure field has much to offer, particularly in the search for efficient lubricants. A very well known complaint of the lubricant engineer has been that the automotive engineer wants an antiwelding compound, rather than a lubricant. Pressures as high as 500,-000 pounds per square inch have been developed within bearings, and this has all sorts of unpredicted effects upon matter. Water, at a somewhat higher pressure, becomes a solid harder than ordinary ice, with a melting point above 100 degrees Centigrade, and this is now known as ice VI. At even lower pressures than 500,000 pounds per square inch, other liquids solidify; and, should they be in suspension in a lubricant, they will add to the friction and abrasive action already present.

tories here, last May 28, has resulted one which has received increasing istration at Harvard, has been work- elevator from 2:30 to 4:80 o'clock in many more remarkable facts.

Deadline for Senior Cycle Pictures Set at January 15

The Senior Jewelry Committee has started a precedent among the other committees of successful operation. I Thomas, chairman of the committee, reported last week that their efforts were successful in selling a large amount of jewelry. This is partly due to the fact that they were also able to reduce the price on the 10 karat gold ring to a level \$1.30 lower than last year.

Louis Lange, chairman of the phosenior pictures must be taken by January 15 if they are to be included in the Cycle.

Annual Architectural Memorial Scholarship Endowed by Alumnus

Armour Institute of Technology has established the Dora T. Bartlett Memorial Scholarship which will be awarded annually to a worthy student in the Department of Architecture. This scholarship, just presented by Frederic Clay Bartlett, Jr., alumnus of the Class of '34, is named for his late mother, long a prominent Chicagoan. The scholarship covers the full tuition for one year, and is assigned by the President and the faculty of the Architectural Department.

The course of study in which the scholarship is to be applied is presented at Armour Institute in a particularly effective manner, since a great many of the Architectural studies are given in Chicago's world famous Art Institute. By virtue of wise be readily available. It is this | lered Risk Underwriting." tecture is basically a fine art with an | terest to the fire protects since it will engineering foundation that makes | help to supplement the routine knowlthis subject, as a department of a edge of sprinkler systems and dry tunities for study in America.

Sophomores Present Winter Frolics Friday

Ninety Compete for Frosh Scholarships

The semi-annual freshman scholarship examination, in charge of the Freshman Scholarship Committee, was held last Saturday, January 8, from 9 to 12 o'clock in Science Hall. tography committee, anounces that all | The largest group of mid-year candidates who have ever taken the test ninety-were welcomed beforehand by acting-president Heald, who gave a short talk concerning college life at Armour Tech. Dean Tibbals addressed the aspiring high school students and gave them directions for taking the examination.

> After the three-hour quiz, the men were divided into groups and were entertained at lunch by the social fra-

The mid-year scholarships, five in number, will cover a full year's tuition, each having a cash value of \$300. The awards will be based upon the candidates' scholarship records and extra-curricular activities in high school, personality, and general fitness of the candidates, and their showing in the competitive examination. The latter included questions on physics, chemistry, and mathematics.

Fire Protects to Hear Lecture on Underwriting

Mr. R. K. Hill of the Springfield Fire and Marine Insurance Company this fact the student may pursue his will address the next meeting of the studies in an artistic environment and | fire protection engineering society to also have at hand the many special be held next Friday, January 14, at exhibits and collections of architect- 10:30 in room C Mission. The subural interest which would not other- | ject of Mr. Hill's talk will be "Sprink-

recognition of the fact that Archi- This topic should be of special intechnical college, unrivaled in oppor- pipe valves with a conception of how they affect the insurance on a risk.

uled to deliver two lectures there to- Regional Social Security Board Head to Open Annual Conference Course

will be the subject of the second an- sonnel which has assumed special imnual conference course offered by portance during periods of business Armour Tech for operating execu- recession and which gives the opportives. Conferences will be held week- tunity for stocktaking of policies for ly on Monday evenings, beginning the improved handling of new busi-January 17, and continuing for 12 ness. The conferences will emphaweeks until April 4, at the Palmer | size the adjustment of personnel pol-House. Each meeting of the group | icies to the changing phases of the will consist of a dinner at 6:30 fol- business cycle. lowed by the discussion of the

First Speaker



Mr. H. L. McCarthy week's subject by a leader in the field, and also by the attending executives, who will range from superintendents to presidents of the enrolled organizations.

This new type of course was suggested by Alfred L. Eustice, memattention of executives in recent

"Executive Control of Personnel" | years: -wise management of per-

Donald R. Richberg Is Speaker

Donald R. Richberg, former director of the N.R.A., is one of the best known of the roster of speakers for the conferences. He has a unique background from which to give operating executives a perspective as to what Washington is trying to do in the labor field. Another speaker prominent in government work, H. L McCarthy, regional director of the Social Security Board and former member of the Chicago Regional Labor Board, will open the course with his discussion of present day industrial relations.

The president of the Industrial Relations Association of Chicago, John A. Stephens, will speak on practical training programs for increasing the skill of workers. That he is qualified to talk on the subject is evidenced by his work as manager of industrial relations for the and wash room are being remodeled, Carnegie-Illinois Steel Corporation, all gym classes have been dismissed Johnson O'Connor, writer and speak- until the showers are again ready for er widely known for his original and use. The shower room is going to be useful placement work, will discuss modernized and the number of facilthe selection and advancement of ities is going to be increased. employees.

Glenn Gardiner, for many years ber of the Institute's Board of Trus- the president of the National Fore- cause of the inconvenience it would Sometimes they may, as little par- tees and President of the Economy men's Club, is scheduled to speak on cause during the school year but unticles, wipe away the lubricant, and | Fuse Company, as being one suitable | the training of supervisors and fore- | avoidable circumstances made it necclear the way for actual contact be- for presentation to operating execu- men. "Social Attitudes a Factor in essary to take care of it immediately. tween the two metallic parts, which tives, busy men for whom classroom Industrial Relations" will be present. Another fact of vital importance to attainment of pressures as high as Prof. H. P. Dutton has arranged the ficials of the Western Electric Com- room facilities on the fifth floor have 1,500,000 pounds per square inch in program of the conference. The pany. Dr. Roethlisberger, of the for the present been put out of use, the Research Foundation Labora- theme of the coming conference is Graduate School of Business Admin- freshmen will be allowed to ride the

(Continued on page three)

Emil Flindt to Provide Music in Spacious Ballroom

Emil Flindt and his popular orchestra will provide their distinctive rhythm at the annual sophomore dance to be held in the Grand Ballroom of the Medinah Athletic Club next Friday evening. Appropriately titled "The Winter Frolics" it will be the first event on the 1938 Armour social calendar. Unique music coupled with the excellent location explains the 350 bids now in circulation.

The entire seventh floor of the Medinah will be at the sole disposal of the Techawks for the whole evening. It includes a large and beautiful foyer, heavily carpeted, softly lighted, and outfitted with comfortable lounges. The Grand Ballroom, recently redecorated, has a superb flooring of recent construction. A large balcony flanks the dance floor and is available for the couples that enjoy "sitting out" a dance or two. Private elevators will take the Techawks up to the scene of the evening's dancing, where ample checking facilities have been provided. A crowd of 600 is expected with the capacity of the Ballroom set at 1500, insuring ample room.

Flindt's thirteen piece orchestra has in its repertoire all of the Armour songs besides their regular distinctive arrangements. Several vocalists will lend their share of talent to the evening's entertainment. Flindt left Oh Henry Park at the close of the year, depriving the south side of one of their most popular orchestras.

The bids are a combination of brown suede and veneer, making a distinctive memoir of an enjoyable evening. They are priced at \$1.50, the lowest figure ever quoted at an Armour dance that boasted Flindt's orchestra. The arrangement of this event has been handled by the sophomore social committee under the guidance of E. Worcester, social chairman.

Senior Mechs Meet to Plan for Reunions

Gathering last Friday at 10:30 in C Mission, the senior members of the mechanical department elected the following officers to take charge of reunion activities after graduation: S. Gryglas, president; E. W. Menke, vice-president; and J. L. DeBoo, secretary treasurer. Menke was appointed chairman of the constitution committee and will organize the future plans concerning meetings, dues and other data. Tentative plans provide for semi-annual reunions.

The purpose of the organization is to keep the class together, to foster loyalty to their school and to enable them to aid each other after graduation. The constitution will be presented to the senior mechanical class as soon as it is completed. In calling the meeting the mechanical class distinguished themselves as being the first class to provide for postgraduation activities.

Install New Showers in Fifth Floor Main

Because of the fact that the shower

The work on the showers was originally planned for next summer beevery afternoon.