

FPE HEARS LANGE TALK ON METHODS OF FLAME KILLING

At the last meeting of the Fire Protection Engineering Society, Mr. Herbert W. Lange, assistant engineer of the Underwriters' Laboratories, presented a demonstration lecture on extinguishing flame. The meeting was held last Friday at 10 a.m.

Combustion Explained

Mr. Lange opened his talk with a discussion of the causes and means of combustion. He pointed out that while lighting a match and blowing it out is a very prosaic and common occurrence, very few people have ever considered the phenomenon of extinguishment.

The three ways of extinguishing flame—cooling, smothering and separating flame from the burning material—were outlined and demonstrated. This theory of separation is analogous to an aviator's diving his plane to keep the fire away from his carburetor and gas tank. This, of course, presupposes a fire in the plane.

In his demonstration by cooling, Mr. Lange employed a can of paraffin, heated until burning. The can was placed in a pan of cold water. This caused external cooling which caused combustion to cease. In another experiment of the same type, alcohol was used instead of paraffin.

Dry compounds have recently been developed which are most effective in extinguishing fires. An extinguisher is used in which carbon dioxide ejects a compound in the form of a dust cloud. The dust cloud of this compound is effective in sweeping the flame from the burning surface, and smothering the fire. The main component of this compound is sodium bicarbonate.

Foam is also a quenching medium which provides a smothering blanket of a certain permanence. If the foam is tough and stable enough, it will provide insulation for the hand against the flame of a blow torch.

There is still another means of putting out fire. That is by means of vibration. A lighted candle placed in front of an auto horn will be extinguished when the horn is sounded.

However, as the speaker pointed out, the best way of putting out most fires is still with good old H₂O.

Home Ecs To Present Country Fair, April 30

IIT's Home Economics club will present the Lewis County Fair, something never before, (and never to be) repeated, on Wednesday, April 30. One and all are invited for a grand time with side shows, taffy apples, dart ball contests, and last but not most important—the pie baking contest. Every girl in the school is urged to send in a pie and outdo the Home Economics girls, if possible. Any fruit pie is eligible and judging will take place in the Art room at 8:30 on the big day. Get your entry blank from any Home Ec'er and get in line for the prize.

The department was well represented at the Fashion Seminar held at the Grand Ball Room of the Palmer House. Noted speakers included Joyce Fenley of the Chicago Herald American, Nancy Brooks of the Dubary School of Designing in New York, and other notables. The main attraction seemed to be the exhibit by the University of Chicago Home Economics department with authentic representation of historical costumes.

FOUNDRY COURSE NEW OBJECTIVE

Another step to provide the engineering student of Illinois Tech with the most advanced training that modern industry is constantly calling for is presently being completed by the foundry.

Less Manual Work

The objective of the foundry course is being changed, emphasizing more the engineering aspect of foundry work and less the manual arts connected with it. The course as outlined and conducted comprises the study of the properties of various types of cast metals, their production, use and design.

The new equipment of the shop laboratory includes a concentration of physical tests with a minimum of actual moulding practice. Testing of foundry raw and finished material, together with the control of molding sands, chemical composition of cast metals, and the most economical and efficient methods in the handling of material are the operations stressed.

Old Equipment Gone

A recent clean-up of the laboratory eliminated much superfluous material. Some equipment was added. Included in the added equipment is a tensile strength testing machine, a transverse strength testing machine for metals and for sand cores, a gas melting furnace for ferrous metals, a gas fired oven for cores and a tool crib for the storing of patterns and tools. A new moulding bench with hoppers for moulding sand is constructed, adding to the general appearance of the laboratory.

Prof. Kozacka, who has direct supervision of the shops, hopes that in the future the foundry work for engineering students will consist of physical and chemical check-up of materials, testing of cast metals, and the best methods of production.

PHYSICS STUDENTS VISIT RYERSON LAB

Last Thursday the physics students of Armour had the privilege of visiting the Ryerson Physics Demonstration building at the University of Chicago. From early morning till late afternoon the engineers played around with the early experiments of Newton, Galileo and Michelson.

The experiments on display were mostly the originals performed by the early men of science. Most of the fundamental principles of mechanics, heat, light and electricity were displayed and were of prime importance to the students, since they were able to get a close-up of each experiment in action.

Experiments of Interest

The demonstrations that attracted most attention were those on light, including Michelson's determination of the velocity of light, the stroboscopic phenomenon and the cathode ray tubes containing radioactive substances.

Many interesting oddities of physical phenomena were on exhibition, giving the "brains" a chance to determine an explanation. Everyone had a chance to see himself as others see him. This was accomplished by two mirrors placed at ninety-degrees to each other producing an image of an image of the object placed before it.

The quizzical engineers kept the instructors busy answering their questions. The responsive reaction of the students may result in various other tours of importance pertaining to physics.

NEW TRIANGLE OFFICERS



Photo by Anderson, Staff Photographer
Bob Sweeney, at right, shown swearing in the recently elected group of Triangle Fraternity officers at Armour.

Placement Department Rushed; Allis-Chalmers Gives Interviews

If ever the Placement Bureau had more jobs on hand than it can possibly fill, that time is right now. One company has hardly time to complete an interview before another one is here. On March 18, Revere Copper & Brass Co. and Pan American Airways interviewed seventeen of our senior students. The outcome of these two meetings is as yet unknown, but the representatives of both companies seemed pleased with the boys. Among the more recent firms to visit the campus were Young Radiator Co., from Racine, Wis., Presto-Lite Co., and Shell Oil. The latter corporation was so interested in two senior chemical engineers that it came back for a second interview.

The seniors are not the only students who are benefitting from these interviews. Line Material Co., of Milwaukee is interested in obtaining two junior electricals for summer work. Proctor and Gamble also want a few junior chemical engineers for summer work here in Chicago. One of the graduate students recently secured an excellent position with C. Scelanese Co. of Cumberland, Md.

Four men were placed with the Pennsylvania Railroad April 1, according to the Placement Department. These four men, LeRoy Goetz, Bob Saigh, Eugene Dailey, and Richard Hruda, were in Phil-

adelphia Monday, April 1, ready to begin their apprenticeship with the railroad. Their placement was a matter of quick work, for they were interviewed by Mr. Grover the previous Wednesday. Mr. Grover is in charge of the maintenance department of the Pennsylvania Railroad.

Allis-Chalmers Here April 15

The Crane Company which has granted several interviews previously came back on Friday and interviewed a group of seniors interested in sales engineering. Eight mechanical engineers were interviewed by the Carnation Company of Milwaukee on Saturday. Fairbank Morse and Co., representatives will return to the Institute shortly after the spring recess to interview men interested in sales work.

Representatives of Allis-Chalmers Co. were here April 15 to interview interested seniors.

Miss Geraldine Harris, who has been assisting in the Placement office, left last Friday. Mrs. Carrol, the Placement Office secretary, feels that her absence is a definite loss to the office and to the students. Miss Harris' work has been excellent. Mrs. Carrol requests that the students please watch the Placement Office bulletin board because she will be very busy now, and unable to contact the students personally.

Muhlberger Talks On Science Investigation

Dr. Clarence W. Muhlberger, Coroner's Toxicologist for Cook County, addressed the classes in sociology, psychology, history and education on "Some New Techniques in Scientific Investigation" on April 11, in the Lewis auditorium. The meeting was held under the auspices of Professor Mathews' class in local government.

Dr. Muhlberger received his B. S. from Armour and continued his studies at Wisconsin where he received his M.S. in 1922 and his Ph. D. in 1923. In addition to his position as Coroner's Toxicologist, he is a consulting expert to the Chicago Police department on bombs and explosives, and lecturer on toxicology in the medical school of the University of Illinois and the University of Chicago.

Colored slides of cases that had been handled by the Coroner's office were shown and explained. These were so real that afterwards the students found it difficult to eat their lunches.

Development Plan—

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In addition to the buildings scheduled for the '41 phase of the program, the following are contemplated: A civil engineering and materials laboratory, a chemical engineering and chemistry building, an electrical engineering and physics building, a student union, a physical education building and a new power plant.

Development program offices have been opened at 79 West Monroe street and organization of volunteer personnel to carry out the appeal for funds will get under way immediately.

Kauffmann—

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a member of the Chicago club, South Shore Country club, and Flossmoor Country club. He is also the director of the Illinois Manufacturers association.

Illinois Institute is certainly honored to have such an outstanding citizen as a member of its Board of Trustees.

AIEE ELECTS BILL VIZARD PRESIDENT FOR 1941-42 TERM

Annual Smoker To Occur Thursday

Officers for the 1941-42 season of AIEE were elected last Friday at an important business meeting. Bill Vizard will succeed Ben Cole as president; Irving Kaluzna will hold down the position of vice-president; and Gus Staats and Gene Clears will serve, respectively, as secretary and treasurer. Curtis Hepperle and Tom Brown were chosen WSE representatives.

Although the term of the present board has by no means been completed, it is the custom of the AIEE to hold an early election so that the new officers may become more thoroughly acquainted with their new duties.

It was announced also that the annual smoker of the IIT branch of AIEE will be held next Thursday, April 24 in the Student Union lounge at 8 p.m. A complete and thoroughly interesting program is being arranged for the boys in their yearly gabfest. Paul G. Andres, assistant professor of electrical engineering, will be the featured speaker. Following Mr. Andres address there will be an hour of movies. Refreshments and smokes will then serve to prepare the guests for the following bull-sessions and battles of pinochle and contract, for which will be offered prizes.

Attention was also called by Treasurer Joe Corcoran to the laxity of many of the members in the payment of dues. A strong plea was issued that the organization be backed more strongly in a financial way by its members, especially in lieu of the heavy expenses entailed in providing the exceptional number of outside speakers in the meetings this year.

POLISH GROUP PLANS NEW LECTURE SERIES

Lectures on various phases of Polish culture will be presented by the Illinois Tech Polish club in the Lewis auditorium, at 8, on four successive Wednesdays, starting April 30.

The first lecture, "The Contemporary Polish Theatre," will be given by Mr. Ludwig Bodzowski. Mr. Bodzowski is associated with the Chicago Public Evening Schools and formerly studied at Chicago Art Institute. In Poland, he studied at the State Theatrical Institute of Drama in Warsaw, at which time he was acquainted with many of the Polish stage stars.

Miss Hyacinth Glomski, director of the Department of Music Education at the Chicago Conservatory of Music and principal of the Chopin School, will speak on "Music and Poland" on May 7. Miss Glomski studied in Poland in 1935.

On May 14, Mr. Wladimir Sklodowski will lecture on Polish literature. Mr. Sklodowski holds a Masters Degree of Pedagogy and History from the University of Warsaw and formerly lectured at Peoples' University. A. present he is a teacher of literature and the Polish language at DePaul University.

"Art Education" will be the subject of Miss Jane Palczynski's lecture on May 21. Miss Palczynski is the high school art supervisor in Chicago. She has taught art, lectured on art, and is an artist herself. She traveled extensively in Poland in 1929 and 1934. This series is not only planned for members of the club but also for students, faculty, and the public.