

Heald Attends Defense Meet In Washington

President Heald recently returned from Washington where he attended a meeting for the organization of defense training programs in the engineering colleges of the United States. The government has appropriated \$9,000,000 for this purpose.

Mr. A. A. Potter of Purdue is the national chairman of the advisory committee for the training program; President Heald is the regional advisor for the Illinois, Wisconsin and the Indiana industrial area. The universities which will carry the special courses in this region are the University of Wisconsin, Marquette University, Northwestern University, University of Illinois, Bradley Institute, and I.I.T. Professor Finnegan is in charge of the course at I.I.T.

Soldiers of Industry

These courses will be free of charge to men already in industry who desire specialized training to enable them to fill better positions for the defense program. Each college will make a survey of the industrial plants in its area and base the training on particular needs. The first group of courses will begin about December 1, after they have been approved in Washington.

Schommer Gives Placement Talk Before A.I.Ch.E.

"Placing of Chemical Engineers" was the talk given by Prof. Schommer during the regular meeting of the A.I.Ch.E., Friday, November 15. He suggests that everybody should have a well rounded education, which includes the social sciences.

The employers want men who are about six feet tall with a good American background. Because some of the employees may be prejudiced against certain nationalities, employers want men with American sounding names. Employers pay particular attention to the entrance, the manners, and also the neatness of the men they are considering. These things may not seem very important but they are often the deciding factors in obtaining a job.

Asked For "A" Men

The employers want to know if the men are co-operative, hard workers, and if they have initiative, etc. Often it is hard to tell if a person has these qualities. This is second in importance.

Most of the companies want men which are in the upper one-half of the graduating class. In all of the companies Prof. Schommer has dealt with, only one asked for men with straight A's. This was a company making gambling machines. Of course, the men with the best record having the other qualities will get placed first.

Activities Important

Only a very few employers will interview men with few or no extra curricular activities. All employers want to know what the activities were, and if they were officers of any clubs and if so, what office they held. They also prefer men who have worked and paid for part of their schooling.

Prof. Schommer suggests that a person obtain a job after he graduates and also take post graduate work for a higher degree. Suggested also was that a person who does routine work for a long period should come to him and try to get a better job.

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President Heald called a meeting of the leaders of the six mid-western schools in his region last week to discuss plans for the special training program in this area. The purpose of this meeting was to establish methods and machinery to gauge the need for technically trained men in this region and to determine the special courses necessary.

College and University representatives present at the meeting were Dean O. V. Eshbach, Northwestern; Dean M. L. Enger and Associate Dean H. H. Jordan, University of Illinois; Dean F. A. Kartak, Marquette University; Dean F. E. Johnson, the University of Wisconsin; President J. R. Hamilton, Bradley Polytechnic Institute; Dean L. E. Grinter and Professor J. B. Finnegan, I.I.T.

Nine Million Dollars

At the meeting Mr. Heald stated, "This program, for which nine million dollars has been authorized by Congress, will be strictly upon a college level and is designed only for those men who have college training in the engineering field. The program will obviously be one of 'up grading' of technical men, fitting them for better and more important jobs in the defense industries and thus making it possible to us inexperienced men at the bottom of the structure."

The first courses to be established will be designed to forestall potential shortages of inspectors of materials, chemicals, explosives, instruments, and designers of machinery. As the program develops, arrangements will be made to facilitate the placement of students in defense positions upon the completion of their training. This will be done by direct contact between engineering schools and industry, state and federal employment offices, and the U.S. Civil Service Commission.

Reissner To Speak On Lubrication For Mechanics Meeting

Next Monday, November 25, Dr. Hans Reissner will be the speaker at the third meeting of the mechanics colloquium. The topic of his talk is *A New Solution of the Fundamental Lubrication Problem*.

The mechanics colloquium meets every other Monday at 4 P.M. in room 220 Chapin. Professor Reissner is chairman and Mr. Zwissler, graduate civil engineering student, is the assistant chairman. These discussions are open to everyone who cares to attend, and anyone who is interested is invited to attend.

In the past the mechanics colloquium has had a talk by Dr. Myklestad of the Westinghouse Company, and one talk by Dr. Donnell.

The third speaker is Professor Reissner. The fundamental problem of lubrication has first been clearly stated by Osborne Reynolds as the problem of viscous flow in a very narrow gap-like "channel" narrowing in the direction of flow. The flow of the lubricant is caused by the motion of one wall of this "gap."

From this knowledge a new development in the design of bearings has resulted. The theory of such a flow has been treated only by an approximate method, by relating it to the flow between parallel walls, and satisfying the boundary conditions only roughly at the open ends.

The lecture will show how the problem can be solved rigorously by a simple integration of a biharmonic equation. Some light will be thrown on the conditions at the open ends of the flow and also on the conditions in a partly filled journal bearing.

Clarke Visits Convention At Drake

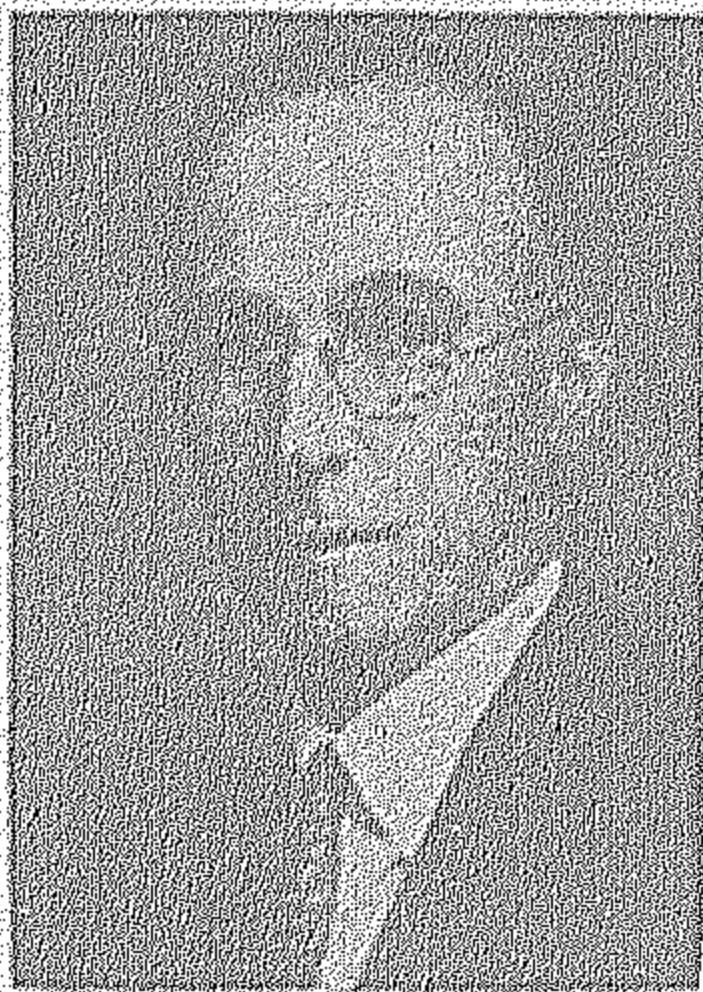
Miss Laura Winkelman and Dr. Clarence L. Clarke represented Lewis at the fifty fourth annual convention of the Association of Land-Grant Colleges and Universities held at the Drake Hotel on November 11-13. Among the outstanding features of the convention were discussions led by Dr. Louise Stanley, Chief of the Bureau of Home Economics, Dean A. J. Brumbaugh of the University of Chicago, and Dean G. Fisher of Iowa. Talks by some of the speakers who tried to repro-

Practice Applied In New Tech Lab

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duced by all of the equipment, is the possession of complete safety devices. Examples of these are the automatic controls on the compressors. As mentioned previously, a great deal of heat energy is liberated in compressing

As the visitor turns to leave the lab, he might suddenly be hit by a blast of air resembling a "twister" in intensity. Once again, however, there would be no cause for alarm, as this gentle tornado is produced daily by means of a cen-



J. C. Peebles

trifugal blower. This is the last rabbit in Professor Peebles' bag of tricks. The students perform various tests upon this long, horizontal "stove-pipe" to determine the capacity and efficiency of this type of blower.

Casting For New Drama At Lewis, Begin Rehearsal

Two On An Island, with its cast of thirty four, is progressing rapidly under the able direction of Mrs. Olive Pierce Hazel. Any Tuesday or Thursday afternoon finds the cast, headed by Mickey Walker in the role of *Mary*, and Jack Perkins in the role of *John*, hard at work. The other leading roles are in the capable hands of Steve Mendak, who portrays *Ormont*, the fast talking producer; Charles Reinhardt, the artist *Ross*; Alda Kairis in the role of *Dorothy Clark*; and Helen Marzullo as *Mrs. Ormont*. The minor roles have also been assigned, and everyone is being drilled in his part.

Unusual Settings

Because of the unusual settings and frequent scene changes, the play is an extremely difficult one to produce. Consequently, a great deal of ingenuity on the part of Mrs. Hazel, Miss Blanke, the art director, and the carpenters will have to be employed. A committee of three has already been appointed to assist Miss Blanke with the scenery; Helen Marzullo, chairman; with Mickey Walker and Mary Flasher as her co-workers.

duce the addresses they had given at a similar convention held at the University of California twenty-five years ago were especially unusual and interesting. These speeches afforded a splendid opportunity to make note of and contrast the problems which confronted the organization a quarter of a century ago with those of the present time.

Visit Packing Plant

The classes in Foods 101 and Experimental Cookery have recently made an extensive study of the methods of preparing meats in order to determine which of the methods will insure the most nutritious and palatable product. On Tuesday, November 19, the two classes will take a trip to the Armour Meat Packing Plant and will be guests of the staff in charge of Armour's Experimental Cookery Department. Here they will be able to get some of the latest information with regard to the new products this company is placing on the market and will observe a special meat cutting demonstration.

Stitching, sewing, and stuffing are the order of the day in the Home Economics department. Preparations for the doll parade are now being made. Sometime before Christmas stuffed dolls made by the Home Economics Club will be distributed to orphans and needy children, but in the meantime they are on display in the home economics office. Jeannette MacLuckie and Eileen Robinson will arrange to take the dolls to the Chicago Home for Half-Orphans.

PETITION METHOD USED IN ELECTION OF FROSH HEADS

On Friday morning, Nov. 15, in the assembly hall of the Student Union Building, an important class meeting was held. The purpose of the meeting was to decide on the method of nominating and electing the freshmen class officers. The assembly voted for the petition method, whereby anyone obtaining a petition of twenty-five names (of freshmen) may run for office in the primary election. The two men for each office receiving the highest number of votes in this election may run in the final election. Class president, vice-president, secretary, social chairman, and three Student Union representatives constitute the officers.

Five o'clock on Monday, Nov. 25, following Thanksgiving is the deadline for petitions, which are to be turned in at the Registrar's Office or to one of the temporary freshmen class officers. Although the dates are not, as yet, definite for the elections, the primary election will probably be held Wednesday, Nov. 27 and the final election, Friday, Nov. 29. Officiating at the meeting was Dick Larson, prominent senior, and president of the Inter-fraternity council.

A.I.E.E.-

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impedance to high frequency waves.

At the next meeting of the Illinois Institute of Technology's A.I.E.E. on December 6th, Mr. W. S. Eldredge, assistant chief testing engineer for the Commonwealth Edison Company will be the speaker. "Experience with Safety in Engineering" will be the theme of the executive's talk, which is being given in conjunction with the national drive for safety of the A.I.E.E.

After the speech, Mr. Eldredge will interview all the school's engineering personnel for graduate work and employment.

Dance Club To Dole Dates For Worried Wolves

Something new is the "co-ed catalog" being compiled by the Dance Club. Any girl who wants one of those, tall, dark, too, too terrific I.I.T. men to take her to one of the club's socials need only submit her name, address, telephone number, weight, height, and age. Also should be included one of the applicant's most glamorous photographs. This precious information will be guarded from Gestapo agents and loose Armour wolves.

Tomorrow's meeting of the swing and sway squads will be held in the Student Union auditorium, at which time the price of admission for the coming social, open, incidentally to all I. I. T. students, will be fixed. After the business of the meeting, instruction will begin.

Ballots were cast at the last meeting of the social steppers to decide the group's officers for the Armour branch. Ernest Colant was elected president; C. J. Lombard was the winner in the race for the duties of the secretary and the keeper of the coin. The newly appointed organization committee consists of M. Pleva, G. C. Mustakas, and R. B. LaNier. Lewis dancers will decide who is to be the vice-president, and who will fill the three vacant positions on the organization committee.

Thermo Lecture Given At Heat Power Seminar

"Joule-Thompson Data and its use in the Calculation of the Thermodynamic Properties of Gases," was the topic of a discussion by Dr. K. A. Budenholzer at the first meeting of the heat-power seminar on the afternoon of November 11. The discussion covered the results of some rather extensive investigations on the Joule-Thompson coefficients of two binary hydrocarbon mixtures in the gaseous region. This work was carried out during the past two years at the California Institute of Technology by Dr. Budenholzer and co-workers.

Difficult to Obtain

Accurate data on specific volume of a gaseous mixture as a function of the pressure and temperature, is very difficult to obtain when using the ordinary pressure-temperature-volume apparatus of the variable volume type. For this reason, it was pointed out, that it is desirable to have at hand some means of checking the volumetric data obtained by direct measurement in a manner as nearly independent as possible. The Joule-Thompson coefficient may be made to serve this purpose admirably, because in conjunction with a limited amount of specific heat and volumetric data it affords a means of calculating the change in specific volume of a gas under isobaric conditions. This fact, coupled with the added advantage that it is most easily measured experimentally in regions of moderately low pressure, makes it a useful derivative for the calculation of the thermodynamic properties of gases.

The results of such calculations applied to the Nethane-Ethane, and Methane-N-Butane systems were illustrated as examples. The apparatus used in the determination of the Joule-Thompson coefficients for the binary hydrocarbon gases was also described.