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CHEM ENGINEERS START STUDIES AT IIT GAS INSTITUTE

Fellowships Granted To Outstanding Men

The first students to attend Illinois Tech's new million dollar Institute of Gas Technology are now well started on their four year graduate programs. At present they are studying advanced calculus, geology, technical writing, and flow of fluids. These students, four in number, have been granted fellowships for the entire four year period.

Outstanding Men

Henry Robison, a native of St. Louis comes to Illinois Tech from Washington university in St. Louis, where he majored in chemical engineering during his undergraduate years and afterwards received his M.S. in physical chemistry. While studying for his masters degree he was employed as an analyst in the research laboratory of the Aluminum Co. of America. After receiving his degree he worked on various problems concerning the commercial uses of aluminum monohydrate.

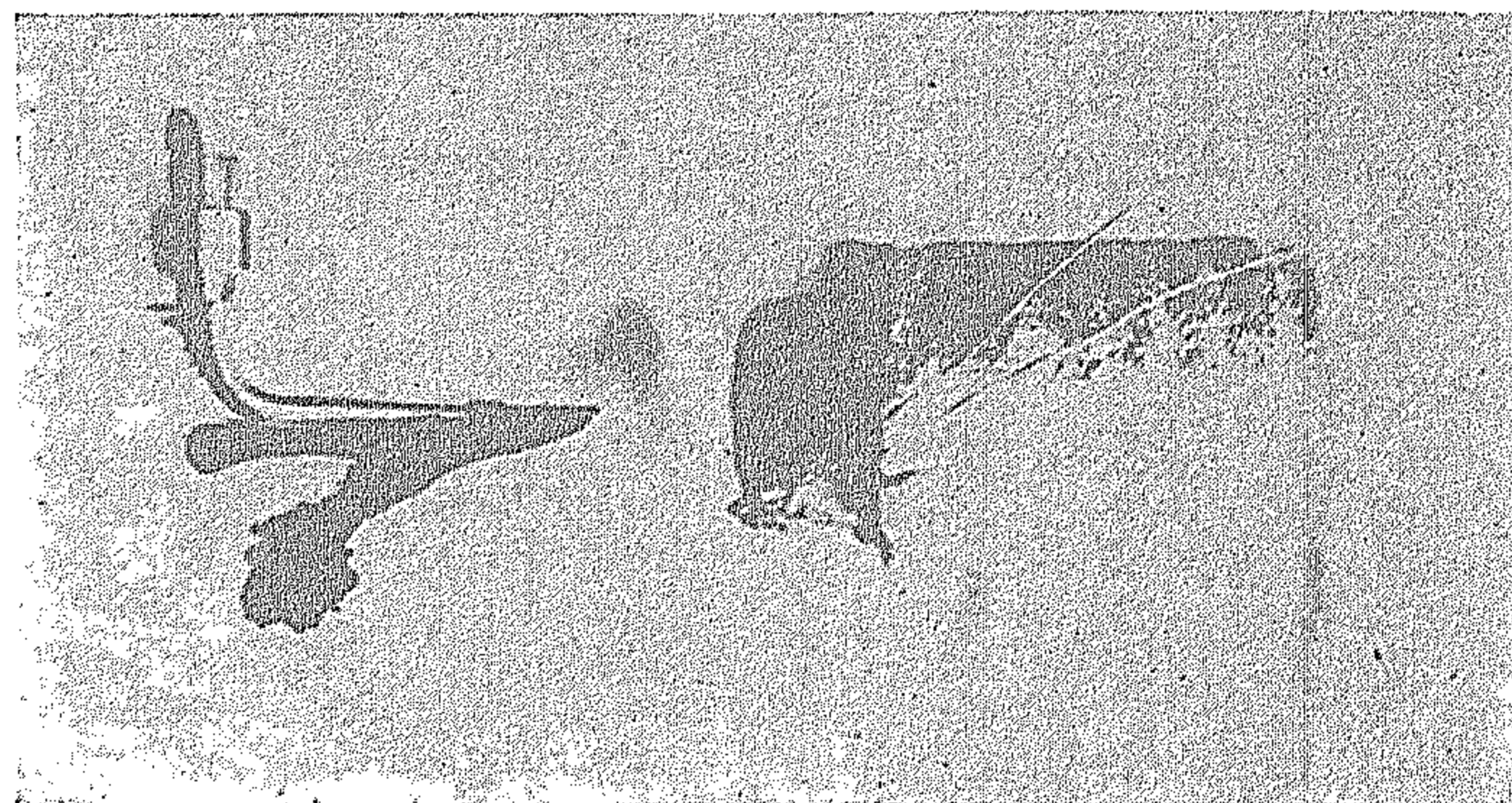
Gerald Lubin, of Detroit, majored in metallurgy at the University of Detroit where he received his bachelor's degree in chemical engineering. After graduation he was in charge of a foundry and later became associated with the British purchasing commission in this country, where he did technical work on airplane motor parts.

Robert Newhall attended Tufts college in Medford, Massachusetts, from which he received his bachelor of science in chemical engineering. His graduation thesis was "Design and Construction of Fluid Flow Apparatus." After graduation he was employed at the Stoneham-Weber Engineering Corporation. He is an active member of Delta Tau Delta.

Alexander Mikulski received his bachelor's degree in chemical engineering from Fenn college in Cleveland. Before coming to Illinois Tech he worked in the research laboratory of the General Chemical Company, and later for the Standard Oil Co. and the Lincoln Electric Co.

All of these fellowship students are active members of Tau Beta Pi, and as ultimately there will be 50 or 60 of them, all of similar high attainments, our new Gas Institute should greatly enhance the prestige of Illinois Tech.

HOT AND COLD



Obtained in the course of nozzle experiments by Prof. J. Yellott, this photograph shows the formation of ice at a steam ejector nozzle tip. This unusual phenomenon is a result of the high vacuum obtained at the nozzle tip. (Story below.)

Worthington Pump Corporation Lends Equipment To Illinois Tech

In order to permit the study of the efficiency of ejector nozzles, the Worthington Pump and Machinery Corp. of Harrison, New Jersey, has sent to IIT, on indefinite loan, the steam ejector research apparatus used by Prof. Yellott in his work at Stevens Institute on studying the formation of ice in steam.

The apparatus, which is worth approximately \$5,000, has been used in an elaborate research project on the behavior of ejectors. It consists of a four-stage steam jet ejector, with an inter-condenser. The first two stages are capable of producing an absolute pressure as low as .02 lb. per square inch. Since the temperature corresponding to this pressure is far below 32 degrees, the apparatus is capable of producing ice in steam.

While at IIT, the apparatus will be used in fundamental research

on the behavior of nozzles discharging into high vacuum. Darby Fulton, graduate student in mechanical engineering, will use the apparatus in the preparation of his thesis. Using the reaction method, he will measure the efficiency of nozzles such as those used in these ejectors. His purpose is to provide reliable information on the behavior of such equipment, since its importance is increasing every day.

Formation of the ice may be observed through glass windows located in a side panel. It is hoped that a very interesting series of motion pictures can be made depicting the process.

The accompanying photograph shows the formation of ice on a search tube which is being held in a stream of steam issuing from a test nozzle. It is believed that this is the first photograph ever taken of the formation of ice in steam.

Armour Juniors Hold First General Ballot

Last week the class of '43 held its junior election of officers. The candidates for office numbered three or four for each position, which resulted in a close and interesting race.

The results of the election was a blow to the progressive electricals, who campaigned so vigorously that day. The mechanical department was fortunate enough to land four men in the runoffs, one in each major office.

Run-off Elections to be Held

The most important runoff will be for the office of president. The chemicals are represented by Morgan Fitch against Dick Roberts, the popular mechanical. The office of vice-president was shared by Roy Peterson EE., Bob Kirk ChE, and Bill Watson ME. Bob Bechtolt FPE, and Jack Byrne ME, will decide the office of treasurer. The social chairmanship resulted in a tie between Ray Kalding ME and Clarence Votana EE. The only two offices that resulted in a majority vote were that of secretary and Student Union representative, won by Mario Silla CE and Don Keigher, FPE, respectively.

SENIORS PROTEST NAME "POLYGON"

At a meeting of the senior class Oct. 17, a motion was made to the effect that the class of '42, as a whole, should protest against the use of the name Polygon, and also against the form and style of the 1941 edition.

The desire was expressed that a vote by the entire school, sponsored by the ITSA, should be held to decide the name of the 1942 book. The motion was decisively passed, with an opposition of only three votes.

Wednesday, October 29, the senior class goes to the polls to choose the officers for this, their last year at Armour. The election board, composed of Frank Jencius ME, Roman Mankus ME, Gus Staats EE, Mary Elizabeth Spies Arch, James J. Walker FPE, Robert Arko ME, Ray Leibrant CE, and Jorma Leskinen EE, has announced that the petitions of the following men have been accepted. Candidates: for president, George Orescan; vice-president, Warren Spitz; social chairman, Ed Kyser, Hank Bittner, Michael Schultz, and for secretary, James Walker and Jorma Leskinen.

Charles D. Dallas, Harold S. Vance Elected To Board Of Trustees

Tau Beta Pi Pledging To Be Conducted In Assembly This Friday

Armour's first general assembly of the year will be held this Friday at 10:00 under the auspices of the Western Society of Engineers for the purpose of pledging candidates to Tau Beta Pi. This event is always one of the most important highlights of the undergraduate school year.

Outstanding Students Honored

Election to Tau Beta Pi, national honorary engineering fraternity, is the highest honor an undergraduate engineering student can attain. Established in 1906, Tau Beta Pi is Armour's oldest and most important honorary fraternity.

In the fall semester at Armour, only seniors of regular day school and 4th year cooperative students are considered for membership. To be eligible for election in Tau Beta Pi a student has to be among the upper fifth of his class in the senior year or among the upper eighth of his class as a junior.

Activities Important

While scholarship is the most important factor in determining eligible candidates, other factors also are given careful consideration. The breadth of interest of the undergraduate as shown by his activities in school affairs is an essential part of the qualifications for membership. Students who have not been able to participate in activities because of the necessity for work—all or part of their way through school—are given special recognition.

Eligibility Code

Tau Beta Pi's code of eligibility states the aims of the society: "It is the purpose of Tau Beta Pi to mark in a fitting manner those who have conferred honor upon their Alma Mater by distinguished scholarship and exemplary character as undergraduates . . . distinguished scholarship while the primary requisite for admission must not be considered the sole criterion.

"After the scholastic requirements have been fulfilled, the selection shall be based on integrity, breadth of interest both inside and outside of engineering, adaptability, and unselfish activity . . . we consider that true integrity . . . transcends in importance scholarship, activity, and every other qualification."

Industrial Leaders Of National Prominence

Two industrial leaders of national prominence have been elected to the board of trustees. They are Charles Donald Dallas, president of Revere Copper and Brass, Incorporated, of New York City, and Harold Sines Vance, chairman of the board of the Studebaker corporation, South Bend, Indiana. Addition of these two members boosts the number of total trustees of Illinois Tech to forty-five.

Dallas Excels in Business

Mr. Dallas began a brilliant business career which he was never to relinquish, not even while a student. He worked with the American Brass company for many years; this firm witnessed his ascension to his first important position. In 1908 he and his father founded a firm in Chicago, which acted as sales-representative for several eastern copper mills.

In 1912 the firm had grown to such a size that they began rolling some of their own metal. Six years later Mr. Dallas became president, and still later the company merged with some other companies. In 1931 Mr. Dallas was made president of this new corporation.

Besides being author of "You and Your Money," Mr. Dallas is also president of the Federation of Church clubs of the Episcopal Church. He is an officer of the National Industrial Conference board and of the Copper and Brass Research association. He was president of the Hadley school for the blind.

Vance Rises from Ranks

Harold Sines Vance, the other new trustee, was educated in the public schools and, at the age of 20, he became an apprentice mechanic for the Studebaker corporation. After many promotions Mr. Vance became assistant treasurer. In 1916 he was made director of purchases. Later he was manager of the export division, and then general sales manager.

In 1926, fully experienced in various phases of production and sales, Mr. Vance was made vice president of the Studebaker corporation. Recently Mr. Vance served as head of the machine tool division for the defense industries.

A.S.M.E. MEMBERS TOUR SUBWAY; ERICKSON ELECTED VICE-CHAIRMAN

At a meeting of the ASME last Friday in Science hall, an election was held for honorary chairman and vice-chairman of the organization. Ralph Jahnke, president of the Armour chapter, called the meeting to order. Final arrangements were announced for the subway trip. This tour for the benefit of ASME members took place last Friday night at 7:30.

Professor John Yellott was elected to the honorary position of chairman over his colleagues, Professor Nachman and Professor Winston. The nominees for vice-

chairman, Charles Becker, R. Erickson, Morris Horwitz, and Roman Mankus, made a tight race which necessitated a runoff. Erickson was elected over Becker by a two vote majority.

The feature of the program was a showing of the moving picture, "The International Harvester Diesel," through the courtesy of the International Harvester Company. The principle and functions of the working parts of the engine were illustrated by animated drawings. Lack of time forced the running of only one reel.

THIS WEEK AT IIT

- Tuesday
Orchestra, Armour Auditorium, 5 p.m.-6:30
- Wednesday
Dance club, Armour Auditorium, 5 p.m.-6
Lewis Chorus, Lewis Auditorium, 3 p.m.
Senior Class Election at Armour
- Thursday
Glee club, Armour Auditorium, 5 p.m.-6
- Friday
W.S.E. meeting, Armour Auditorium
Tau Beta Pi Pledging, Auditorium, 10 a.m.
A.I. Ch.E. meeting—202 Main—10 a.m.