

A. I. CH. E. HEARS DR. ADLER TALK ON MANUFACTURING

Dr. Howard Adler of the Victor Chemical Company spoke to the members of the A. I. Ch. E. on the subject "Phosphoric Acid; its Manufacture and Application" at a regular meeting held at 10:30 a. m. last Friday, May 6, in Science Hall.

Dr. Adler is chief chemist of that company and is secretary of the Chicago section of the American Institute of Chemical Engineers. He has been interested in phosphoric acid for the last eight years and during this time has directed many researches on the production and application of it to industry.

Phosphoric acid is becoming of increasing importance in industry and has displaced sulphuric acid in many unit processes such as the production of fertilizer and the formation of formic acid from the acid salt. It is much lighter per unit volume than sulphuric acid, is non-volatile, and has a lesser oxidizing power than sulphuric acid. Because of its property of being non-volatile it is gradually replacing other acids.

Difficulties Listed

Dr. Adler listed the numerous engineering difficulties which had to be surmounted before actual production could begin. Of course the price of the final product had to be such that they could compete with other firms manufacturing the same product. With this as a basis of experimental investigation it was necessary to pick a process which would be the cheapest and produce the best product. Many commercial processes were developed to produce the various products needed by the industries. The acids produced were of different concentrations and many degrees of purity.

It was found possible to materially reduce the price of the acid due to the many by-products recovered from the original reactions. Some of these products are Tetrasodium Phosphate, Ferric Phosphate, Phosphate of Paris, and fertilizers.

In concluding his talk, Dr. Adler stressed the important part that the chemical engineer plays in the manufacture and application of products to industry.

Dr. Adler brought samples of the products obtained in the manufacture of phosphoric acid, and the department of chemical engineers is greatly indebted to him for presenting them to the Institute.

Awards to Be Given To Tech Architects

Following their regular semi-monthly luncheon at the Men's Grill of Marshall Field and Company last Thursday, Edson Temple of Seneca, Professional Architectural Fraternity announced that next September at the opening of the new school year they will make awards at an open competition of the summer sketch work. Previously medals were awarded for outstanding work in September design but the new idea is to have work representative of all the architectural classes.

At this usual Fall exhibit of the Armour Architectural Society of the students' summer work, Seneca will award a silver and a bronze medal for first and second places respectively. The jury will be selected by the Fraternity. Seneca members will be considered ineligible.

The Fraternity considers that the making of awards will add a greater incentive to produce some fine material. They announce that the sketches may be in any medium. Last years exhibition included work in pencil, lithograph, water color and pastel.

ALASKANS SEE ECLIPSE

The students at the Alaska School of Agriculture and Mining College, Alaska, viewed a unique spectacle on March 22, when they saw an almost total eclipse of the moon.

Two years ago the students of the "farthest north" college witnessed a partial eclipse of both the sun and moon. It is reported that an eclipse of the sun will be visible sometime in August from that part of Alaska.

Civils Make Joint Inspection Trips

A series of inspection trips have been conducted in the past week for the benefit of Armour's civil engineering students. Last Monday an inspection was made of the Morava plant of the McClellin Marshall corporation, the group being comprised of seniors, juniors, and sophomores.

On Tuesday of last week the junior and senior civils visited the West side and the North side plants of the Sanitary district of Chicago. The West side plant was visited in the morning, where the Imhoff tank process for purification of sewage was seen in operation.

The North side plant was inspected in the afternoon, where the main object of interest was the Activated Sludge process, purification being carried on by blowing large quantities of air through suspended sewage.

Thursday the juniors and seniors inspected the construction of the Chicago Avenue tunnel, after which the party rode up the river by tug boat, observing the bridges under construction. The Incinerator plant at Goose Island was also inspected and then a trip was made by bus to the Lake View, Thomas Jefferson, and Mayfair pumping plants.

The week was concluded with an inspection of the Indiana Harbor plant of the Inland Steel Company on Friday morning and an inspection of the Universal Portland Cement Company in the afternoon.

MOVIE NOTES

"This is the Night," the gay, sophisticated comedy now at the United Artists Theater, boasts of a popular cast of comedians—Charley Rogers, Roland Young, Lily Hamilton, and Thomas Fudd.

Frank Tuttle directed this last evening comedy of love. It is the sort of thing done as well by Mary Joe Chanler.

Upon spending hours about the final problems of the movie comedy of matrimonial complications set to music in a laugh riot, and a beautiful moment in the whole show.

Edna Ferber's "So Big," a bit in the silent days, is even more so in the talking version with Barbara Stanwyck giving the greatest performance of her career.

Along with this grand screen drama the Primuline Theater presents a stage show entitled "Five Haces," an "in the flesh" offering which does not live up to the high standards maintained by Sabath and Katz during the last few months.

At the World this week we have Douglas Fairbanks, Jr. in his latest picture "It's Tough to be Famous." This hilarious satire is the sort of thing done so well by his Dad a decade or so ago. Mary Brian plays the feminine lead.

"Zombie," that thrilling mystery play of supernaturalism, and with a South Sea locale is on the stage. Pauline Starke, screen actress, has the leading role. Be certain to sit near the front as seats are hard.

That gay Broadway revue, "There's a Crowd," is on the stage at the Chicago Theater, and is another in the series of successful stage plays presented intact by the U. and E. organization.

This sophisticated and popular revue which had a year's run in New York City is being presented complete with Fred Allen, star of the original production.

"Yellow," "Body and Soul," "Give Me Something to Remember You By"—some hits which swept the country are featured in this brilliant production.

"The Trial of Vivienne Ware" is on the screen, featuring Joan Bennett in a dramatic role. "Streets" Gallagher and Zaso Pitts, popular hit players, are included in the cast and live up some otherwise dull moments.

Your enjoyment of "The Wet Parade" now at the McVickers Theater depends upon which side of the fence you are.

ON THE LAKES

Victor Rimsha

At the recommendation of a high school teacher, P. J. Rupprecht '22, Armour, I decided to spend one summer as a sailor on an iron ore boat on the Lakes. I packed a few essentials of civilization in a grip and presented myself at the Shipping Office in South Chicago. After paying a fee of one dollar and answering a few light questions I became an "ordinary seaman" and member of the Lake Carrier's Association. A green book showed that I had paid my dollar and was entitled to all privileges thereof. I was to wait in the hall, with the rest of the men, until a call came in from some boat.

There were about thirty or forty men lying at anchor in the long hall, "waiting for their ships to come in." When a boat came into port the men were paid off and after a good time ashore many did not return to their berths. The captain would then call the shipping office just before sailing and get whatever men were needed to complete the crew. During the two days that I waited for a call I heard a lot of amazing stories of adventures, romances and scrapes in far away parts of the seven seas; stories that no one but a sailor would presume to tell. I listened with bidden skepticism for I knew that they would present any doubt as to the veracity of their tales.

Men of Many Types

The story book sailor was not to be found in this group. There were old weather beaten "salts" of various nationalities who just happened to be on the lakes during the summer because the pay was higher. There were blunders and hobos who had accidentally stumbled into sailing and fascinated by the lure of water always came back for more. There were a few school men who could be identified by their spacious vocabularies and the reluctance to displaying them. I met one man, a junior at Columbia U, who had sailed on salt water for the last three summers and was now trying the Lakes. Another was a husky fireman, a high school student from Sandusky, Ohio.

The telephone was ringing quite often and men were being sent out almost constantly. At that time

REVIEWS

A copy of the Students Dictionary has been acquired recently by the staff of the Armour Tech News.

The dictionary is of recent publication and is composed of synonyms and antonyms, both of which are useful to the writer as well as the speaker. The volume is small and the words are arranged in alphabetical order. Under each word there is a list of synonyms, or words which convey practically the same meaning. There is also a list of words bonded antonyms, or words which are opposite in meaning.

At the back of the book there are two sections of sound words with their definitions. One section is devoted entirely to automobile terms, and the other section deals with nothing but radio terms.

In order to make all thoughts clear and at the same time avoid repetition, the dictionary will play an important part in the making of precise statements.

Jimmy "Schmoodle" Durante, Dorothy Jordan, Lewin Stone, Walter Huston, and Neil Hamilton head a strong cast. The picture contrasts the fast hectic life of today with the period before the World War. Lewin Stone and Walter Huston give particularly strong characterizations.

"Miracle Man" is presented at the Uptown Theater. This picture, a talkie version of the great silent picture which featured Lon Chaney in one of his finest roles, is unconvincing and entirely too obvious. Sylvia Sidney and Chester Morris try hard but fail to go over.

Betty Compson, film star, is in person on the stage. She sings, acts, plays the violin, and gives the usual chatter about Hollywood.

1928, there were about thirty boats docking at South Chicago every twenty-four hours. Finally there was a call for a deckhand, deck-watch and two firemen for the "Joe Block" of Indiana Harbor and I was the deckhand chosen. Our books were stamped and we received tickets for the NYC to Indiana Harbor. The four of us showed our passes at the Inland Steel Company's gates and lugged out grips three blocks to the slip where the ship was anchored.

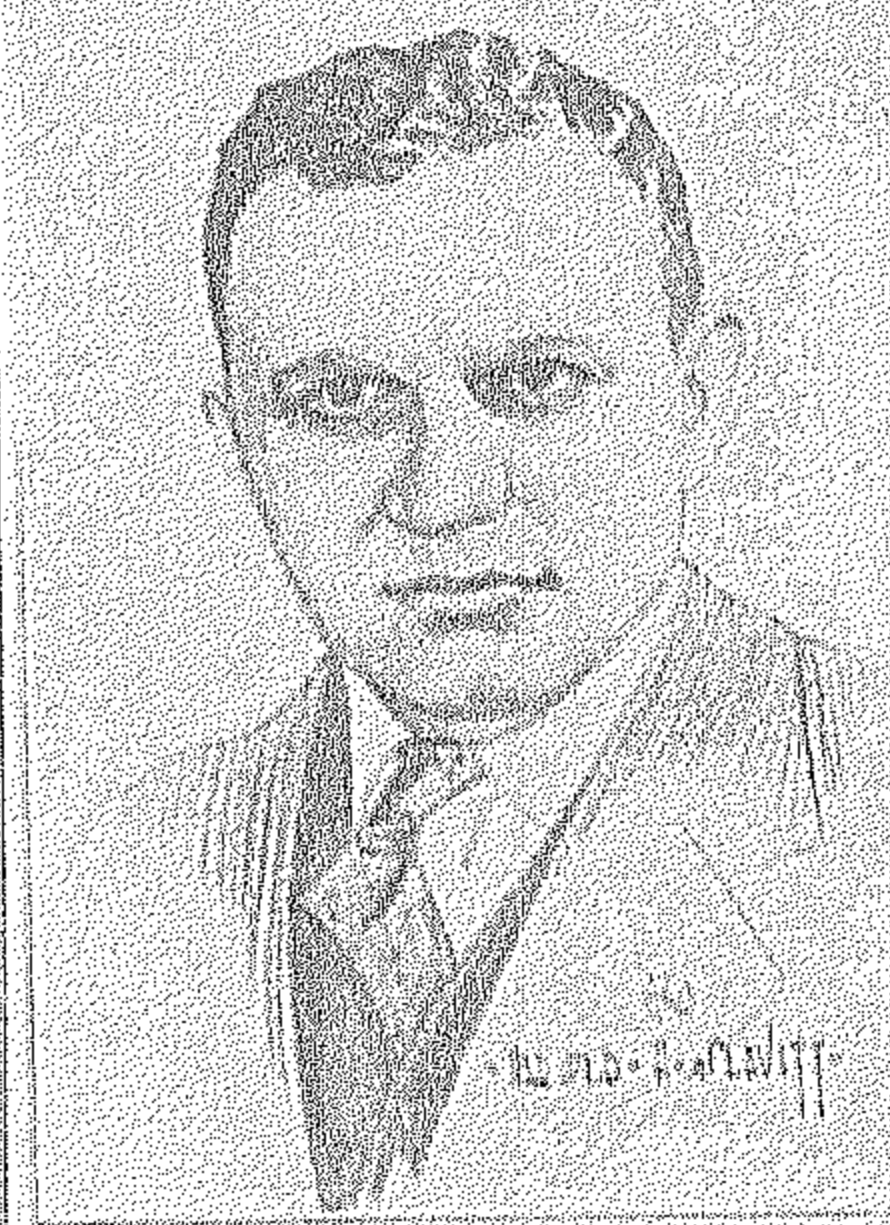
There were four boats altogether at the dock; one steaming out, the Joe Block being unloaded, and two others waiting for the unloading crew. All four of the boats were of the same type, long narrow hulk with deck houses at each end, the middle part of the boat being a series of hatches eight or ten feet wide and running almost clear across the deck. There were four cranes slipping into the yawning chasm that ran from end to end and was only interrupted by narrow cross walks a foot wide.

Aboard Ship

I presented my green book to the first mate and was told to go aft where my room was located. On this particular ship the deckhands were located aft also, though usually they were up forward and the aft end, "fantail", was reserved for the engine crew and firemen. As the firemen and I cautiously stepped toward the stern along the narrow walk between the hatches and the side of the ship we were almost deafened by the clanging of the cranes. Red iron ore dust covered everything. Down in the hold, way down, we could see dust covered figures moving about and jolting up the ore for the cranes. These were Mexican laborers from the steel mills.

The fantail was reached by a narrow stairway, which opened onto the engine room, the rudder room, and the firemen's and deckhand's quarters. I met one of the other three deckhands as I entered a cubicle that was our room and he told me to hustle on deck as soon as I got my overalls on. There were two sets of double bunks, one of which was to be mine. Another "deck" was lying on a lower bunk, obviously drunk and sweating to beat the heat.

When I got on deck the ship was just clearing the lighthouse and pointing its nose toward Marquette. (To be continued)



PROFESSOR FREUD

Dr. Scherger Gives Lecture on Palestine

"The claim of the Arabs on Palestine is based on a deliberate distortion of historical facts," declared Dr. George L. Scherger to the Pro-Palestine Herald, in discussing the question of the Palestine Mandate.

Dr. Scherger, who is president of the Pro-Palestine Christian Federation of America, showed in a lengthy analysis that Palestine was never the home of the Arabian people. He said that they came into Palestine at an early time by invading the land. "This was the reason," he concluded, "for the sympathetic approval evinced by the whole civilized world to the re-establishment of the Jewish Homeland."

MUSICAL CLUBS SMOKER

As a climax to the year's work, the Musical Clubs will hold a smoker at the Sigma Kappa Delta home on Tuesday evening, May 17.

Doctor Scherger will be featured on the program with a speech and musical selections on the piano. At this time the officers for the coming year will be elected. All candidates for office must present a petition of fifteen names or more.

Prof. Freud to Present Award

One of chemistry's highest honors, the Willard Gibbs medal, has been won this year by Dr. Edward Curtis Franklin, who was graduated from the University of Kansas in 1888.

This award has been given for the last twenty-one years by the Chicago Section of the American Chemical Society. The presentation will take place at the Midland Club—on May 20, before a gathering of nationally distinguished scientists.

Professor Freud and Professor Bentley have recently been reelected as director and treasurer respectively of this section of the American Chemical Society. Professor Freud will present the award to Dr. Franklin.

M. S. Degree From Kansas

Dr. Franklin was born in Geary county, Kansas. In 1890 he received a degree of Master of Science at the University of Kansas, and in 1890-91 he was a student at the University of Berlin. In 1894 Dr. Franklin received his Ph.D. from Johns Hopkins University and later he received the degree of Doctor of Science from Northwestern and Western Reserve University.

Connected With Government

Dr. Franklin has been connected with several divisions of the United States government including the public health service, the Army commission, the bureau of mines, the bureau of standards and the ordinance bureau. He is also a member of the National Academy of Sciences, the American Academy of Arts and Sciences, the Washington Academy of Science, the American Philosophical society, a life member of the Kansas Academy of Science and a past president of the American Chemical society.

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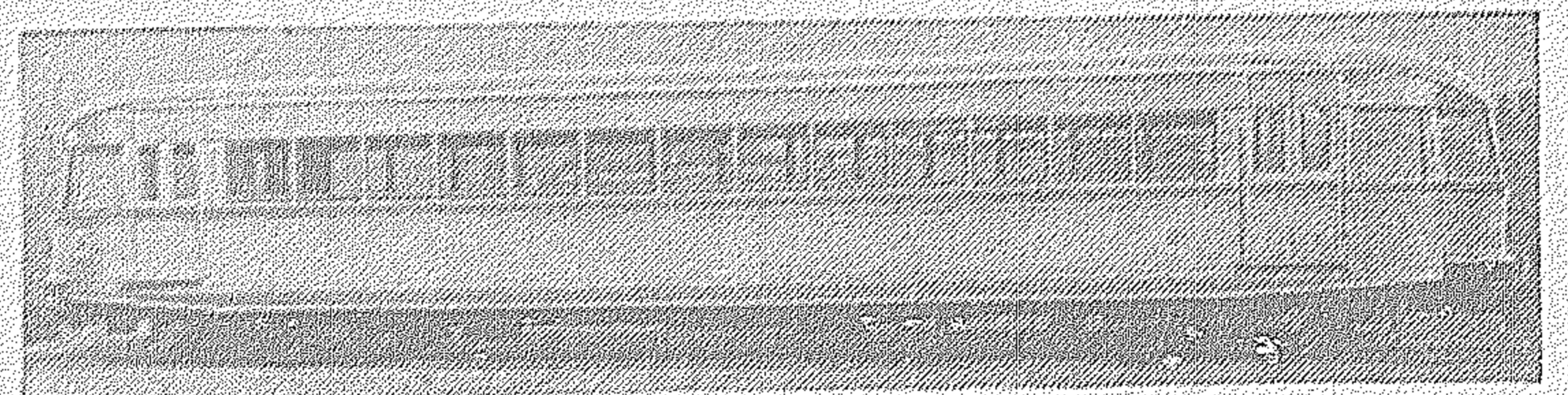
"ELECTRIC BULLETS"



THE result of exhaustive wind-tunnel tests of conventional trolley car models revealed that at speeds of 70 and 80 miles per hour, 70 per cent of the total power was consumed in overcoming air resistance. Streamlining saves approximately 20 per cent of the power.

When the Philadelphia and Western Railway Company decided to replace its cars with faster and more efficient equipment, it chose "electric bullets"—new streamlined cars—each powered by 4 G-E 100-hp. motors. The cars, constructed of aluminum alloy, with tapered noses and tails, are much lighter in weight and capable of greater operating efficiency.

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