Chemicals Hear Talk on Celotex Products

E. C. Lathrop, Research Director of the Celotex Company, addressed the Armour Branch of the A. I. Ch. E. last Tuesday morning at 11:30 in the Physics Lecture Room. He presented a talk that illustrated many of the problems that confront a chemical engineer in the field today. In order to better illustrate his many points he showed a reel of motion pictures.

The motion pictures showed the group the various steps in the manufacture of Celotex from the time it is cut on the sugar cane plantations until it is packed into box cars for shipping to the different parts of the civilized world. Dr. Lathrop passed out samples of Celotex that carried a printed slip telling of its insulating properties. The data for these sheets was compiled by Professor Peebles of the Institute. Professor Peebles has made many determinations of the heat resisting properties of the various types of Celotex.

Isadore Abraham, '31, is being conpient of the Schmier-Kemiker trohim this honor is a reduction experiment which gave a beautiful splatter finish to an otherwise monotonous wall in the senior chemistry lab. The award was made by unanimous vote of his fellow students,

Electricals Make Trip To Goodman Factory

(Continued from Page 1) which the commutation surface is turned down. Armature core laminations are stamped in one operation by a large machine and then placed on the shaft and fastened. armature is tested for static and dynamic unbalance by a machine hot for a few men who entered.

Motors for locomotives which ten-foot draft. travel through low passageways are made very compact so that the total height of the locomotive is only eighteen inches. The motors used in gaseous mines must be totally enclosed, according to Bureau of Mines specifications, so that any sparking at brushes or controller does not cause an explosion. Since the use of trolleys or third rails is out of the question for a similar reason, a reel, attached to the rear of the locomogratulated as the most recent reci- tive and wound with a feeder five hundred feet in length, pays out phy. The accomplishment bringing | the cable as the machine leaves the entrance of the mine.

> about 3:30, the men left the plant after thanking the guides for the pany. interesting experience.

TO THE STUDENTS OF THE INSTITUTE:

The Armour Tech News was put on a compulsory subscription basis on Thursday, December 18, 1930, by unanimous vote of the student body.

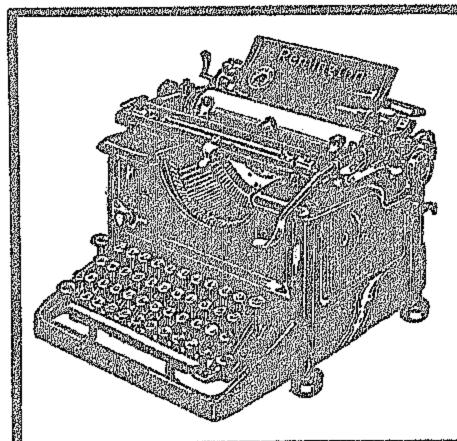
The placing of the Armour Tech News on this basis came as a subject of Dr. Scherger's address result of several conferences in which various plans were discussed by the managing board of the paper and the officials of the Institute. As a result of these conferences, it was decided to put the following motion before the student body: "That one dollar be added to the student activity fee each semester for the creation of a fund to be used in operating the Armour Tech News." This was the motion carried by unanimous vote of the Church. assembly.

The immediate need for this move was the accumulated debt with which the News was burdened. From figures obtained through a study of the operating expenses in the past and the probable expenses in the future, it was seen that it would be impossible for the News to continue on its original basis.

The first use to which this added income will be put will be the wiping out of this debt of past years. The next act will be the improvement of the content of the paper in order to make it compare favorably with student newspapers of institutions of a similar size and type to Armour Institute. It is not the intent of the staff to squander the money in putting out a paper which would be beyond the needs of the student body.

At the end of the first semester, Spring 1931, it is the intent of the staff carefully to examine the expenditures and income of the paper with the idea in mind of reducing the subscription price to \$.75 a semester. This price is a fairer one to the subscriber in comparison with the policies adopted by other institutions. It is believed by the staff that it is possible to operate the paper satisfactorily at this subscription rate (\$.75), and quite possible to make a profit.

Any profits which accrue from year to year shall be maintained in the Armour Tech News Fund until of a size, which in the opinion of the staff and their faculty advisor, is unwieldy and unneccessary to maintain. In such an instance, the staff shall confer with the officials of the Institute regarding some plan by which a portion of this amount may be turned over to the A. T. A. A. FRED ATTWOOD.



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ARMOUR INSTITUTE of TECHNOLOGY

SPECIAL RATES TO STUDENTS

140 N. State Street STAte 1401 Rivetless Ship Built at Charleston, S. C.

A new type of ocean-going craft has been launched.

The first rivetless cargo vessel is now riding the waves in Charleston harbor awaiting her service tests, after which she will begin a life of After the windings are put on, the usefulness as a 2,500-barrel oil

Rivetless scows and rivetless which gives the location and the yachts have been made, as well as amount of any unbalance in inch several vessels combining both rivpounds. The baking room, kept at eting and welding, but never before a temperature of 200 degrees F. for a completely welded, ocean-going drying the armatures, proved too carrier. The ship is 120 feet in length, 23 feet in width and has a

The arc welding was done under a new system of dove-tailed locknotched plates, developed by Richard F. Smith, a young ship designer and inventor. It effects a saving of 20 per cent. in weight and 25 per cent. in cost compared with riveted vessels.

of rivets. The cargo capacity is also offers well worth attending. greater because of the absence of arc welding machine used.

When the trip was finished, at Charleston Dry Dock and Machine charge of the Varnish Development

14, at a banquet given at the Evan- | Paris, 1906-07. gelical Lutheran Church, Michigan Avenue and Seventieth Street. The was "European Conditions."

Among the 660 guests present were Judge Lyle, one of the foremost candidates for Mayor of Chicago, and Dr. Herman J. Shirk, pastor of the Evangelical Lutheran

"Age Of The Earth" To Be A. C. S. Talk

A lecture which should prove of interest to Armour students in general and to chemical students in particular may be heard at the regular meeting of the A. C. S. at 7:30 p. m. Friday, January 23, in the City Club of Chicago, 315 Plymouth Court.

Dr. G. Hevesy, Professor of Physical Chemistry at the University of Freiburg, will be the lecturer. His topic, which is, "The Age of the Earth" will be developed from his research dealing with radioactivity. Dr. Hevesy, who is a Hungarian by birth, has done much investigating along these lines, including two years' work with Rutherford. His experimenting at Copenhagen in collaboration with Dr. Caster, noted Dutch chemist, led to the discovery of hafnium. Research in such fields as atomic structure and the separation of isotopes, has Only 8,000 pounds of welding wire given Dr. Hevesy a perspeculty were used instead of 85,000 pounds which should make any lecture he

Group meetings of the A. C. S. rivets, bolts and angles. Nine work- at 8:45 p. m. on the same night men were employed to operate the hold forth: in the Inorganic and acetylene cutting torch and electric Analytical section, a discussion on new developments in Paints and The vessel was built by the varnishes by Robert J. Moore, in Company for the Texas Oil Com- Division of Bakelite Corp.; and in the Chemical Education section, a recollection of Moissan and Curie Professor George L. Scherger by C. J. Moore, Crane Junior Colspoke Wednesday evening, January | lege, speaking on Student Days in |

> The school of petroleum engineering of the University of Oklahoma is the largest in the world and its enrollment this year has increased ten per cent.

"Wisdom is the principal thing." -Solomon.

A. I. E. E.'s Hear Talk On Plant Operation

An opportunity to come in closer contact with some of the phases of power plant operation was afforded the members of the A. I. E. E. when R. B. Kellogg of the Northern Illinois Public Service Co. addressed their meeting last Thursday evening at the Engineers' Building.

In presenting his subject, "Power Plant Operation," Engineer Kellogg first stressed a side of his topic the importance of which is often overlooked, that of personnel organization. Then turning to the mechanical side of power plants he outlined various factors indispensible to the efficient operation of boilers, turbines, and other equipment.

His points were well backed up with numerous curves, carefully compiled data, and the necessary statistics.

> BOOKS NEW NON-TECHNICAL

> > Talks and Talking Kleiser, Grenville.

Marks of an Educated Man Wiggan, A. E.

TECHNICAL

Conduction of Electricity Through Gases Freeman and Hoppe.

Electrical Transmission and Distribution Kapp, R. O.

International Critical Tables National Reasearch Council.

Legal Elements of Boundaries and Adjacent Properties Skelton, R. H.

FRATERNITY NEWS

PHI KAPPA SIGMA

The actives and pledges of this chapter are invited to be the guests of the Chicago Alumni Association of Phi Kappa Sigma at a banquet to be held February 5 at the Inter-Fraternity Club.

Among the better known Phi Kaps to be present are Mr. Dyche, who built the Dyche Stadium at Northwestern, Wally Knutson, Red Clark, and our own John Schommer. Clark was voted the most valuable man on the Northwestern football team last year, and to Knutson belongs the honor of being Chicago's most valuable player.

TRIANGLE

Norman Beggs, vice-president of the National council, has completed this year's annual chapter inspection.

Things are now rather quiet as the boys are familiarizing themselves with slip stick and text books, preparing for the final exams.

SIGMA KAPPA DELTA

The House has been the scene of the greatest activity in the past week. Pictures were being taken for the Cycle, the brothers being "decked out" in their best for the occasion.

BETA PSI

Beta Chapter will hold an alumni smoker at the house Friday, January 23. At that time alumni living in Chicago and nearby areas will get together.

DELTA TAU DELTA Francis Montgomery, '24, came in from Creighton, Neb. and spent the week end at the House. Butch Beal, '30 and Walt Healy, '29, have also been by for a visit.



The TIME

The PLACE

The FOOL

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