CHEMICALS SEE THREE REELS ON NITROCELLULOSE

Nitro-cellulose proved to be a fascinating topic to those who attended the A. I. Ch. E. Meeting last Wednesday at 11:30 in Science Hall.

Three reels of film showing the manufacture of nitrated cotton from its growth to its final use, were shown. Mr. Mayfield of the Hercules Powder Company ran the film and talked informally pointing out things which needed explanation, and adding information here and there.

the cotton gin must be subjected to folded step by step to fortunate disa thorough cleaning and drying coverers. process. The cotton is shipped to the nitrating plant in bales as a snowy ful evidence to alter these impreswhite, short fibered material. At the sions. You will find that the story nitrating plant still more purification of mathematics is thrillingly vibrant, is necessary.

percent denatured alcohol.

cellulose were illustrated by animated ating form. drawings. Its film forming character, its solubility, its toughness, strength, and durability were all illustrated. Celluloid, brushing laquers photographic films, and platic materials are some of the products made from nitro-cellulose.

The films were furnished through the courtesy of the Brevolite Lacquer Company of North Chicago, Illinois. Comments from the students showed they were highly pleased with the discussion.

Allen Helmick Held up Friday

Three unofficial revenue agents of the dusky set picked up Allen Helmick, '33, last Tuesday evening, and in the lingo of the trade "went through him," making off with one hundred percent of the findings before Al quite realized what had happened.

Thirty-fifth street seemed the safest route from the west side to Chapin Hall, where Helmick was due at the Alpha Chi Sigma meeting. As fate would have it, a gang of negroes thought it a good place for a collection party. Equipped with razors, they attacked their man at the entrance of the alley near Federal street and carried the struggling gentleman into the alley, not without considerable protest, however. They proage cards, etc.

one of the assailants; he tried to goreans were lost. escape as soon as his feet touched the ground, but the odds were against him.

he was perhaps a bit nonplussed as to the conventional procedure, but reputed to be a shining light of the Armour Tech Riste club and will nonchalantly turn the tables.

Armour Represented at Purdue Meeting

(Continued from page 1)

In a further effort to promote this relationship with industry, Purdue University expects all its faculty members to make as many such conmembers undertake commercial research problems for the industries and also serve them in consulting capacities. Professor Moreton and Professor Peebles found that practically all of the faculty members in the College of Engineering at Purdue are making these contacts with industry at every opportunity. The university authorities not only encourage it but even require it.

conference was expressed by Dr. Ed- | ment of Armour and Company along | where they are constantly testing ward C. Elliott, President of the Uni- with C. E. Morris Ch. E. '30. versity, who stated very concisely cation and educate industry.

REVIEWS

NUMBER The Language of Science By Tobias Dantzig

As students in a technical institution, we are exposed to a number of courses in mathematics. Our impressions are probably something like the following: it is a systematic application of fixed rules, dependent for success on our ability to recognize forms; it is free from the human element and none of its laws are subject to discrepancy; it is a The cotton lint as it comes from well-ordered logical continuity, un-

In "Number" there is quite forcea tale of human stumblings and grop-The cotton is nitrated, that is ings and failings; of chance discovtreated with nitric and sulfuric acid, eries, of bitter disappointments, or and it is then dried; a very hazard- exalting conquests. Nothing makes ous operation. The finished product | more absorbing reading than the hisis packed in steel drums with thirty tory of man's attempt to grasp the nature of the universe. In "Num-The various valuable uses of ".itro- ber" you will find it in really fascin-

Can you conceive of romance in the arithmetical operations? Dantzig tells us that not so long ago, days of elaborate work were required for the simplest of calculations; those that today can be performed in a few minutes. In the interim came the discovery of the principle of position, quite simple and like so many things, obvious after explained. But preceding this and making it possible, came the invention of the symbol "zero", conceived in India as an empty column on a counting board. The author calls it one of the greatest single achievements of the human race.

Has an algebraic expression conveyed anything of life to you? Then learn of the algebra of the Greeks which necessarily had to be expressed as words because they had no symbols! Read of the discovery of the use of letters "just yesterday" in the 16th century, a discovery which was the turning point in the history of a science thousands of years old. General relations comprehensible to only a few thus became understandable to vast numbers and an immeasurable step trophy. forward was made.

advent undermined a religion and son was the entrant from the Armour ruined a philosophy! The Pythagor- Club, but was beaten out of third eans had built up an elaborate system | place by two points. of number worship that to them was Ticket, 2 pens, 2 pencils, and a wal- commensurable with its side, that easily. let containing various necessities of the number expressing it was not an a chemical, such as ten dollar break- integer. Fearing the wrath of God at the uncovering of this imperfec-Al testified that he felt his tion in Nature, those aware of it strength slightly inadequate to cope formed an order, the Alagon, under with the efforts of three strong men. | solemn oath to keep their existence He tried to yell, but was stopped by undivulged. However, the Pytha-

and why? Where did that familiar trip last Friday. "lay eight" come from? The story Since this was his first experience, is a wonderful one: beginning with fat cans, tall cans, short cans are the realization of a "last number" all made in this plant located at Klybelonging to the gods. This was the burn and Willow. in the future ambitious hoodlums keynote of most ancient religions. may find a surprise in store. Al is The thread is dropped, to be tak- duced into the factory and is cut to en up in the 17th century by Can- size for the cans. It is then pressed tor, Gauss, and Galileo, who at- into a cylindrical shape and put totempted its anatomy and precipitat- gether by a pressing machine. The ed an argument which raged for top is made but not put on the can years, becoming the fundamental until they are filled at the cannery. issue of the science of number.

portion of the text is easily understandable but some sections will require study. These are few, how, tacts as possible. These faculty ever and may be handled with no special difficulty. I strongly recommend reading this book. Its cultural attributes are enhanced by unusual treatment which makes an intensely interesting entity.

Morton Fagen.

alumni notes

J. E. Tarman Ch. E. '30, visited Armour Institute recently. He is

what Purdue is trying to do. He said, ter 4 months old. He is selling in- well as various other products. "We are trying to industrialize edu- surance for Miller, Castle and Freiberg.

Swimming Team Elects Captain

Congregating for the last official time this year, the 1931 swimming team elected Andrew Weston to captain the 1932 squad. Weston shaded out Cavanagh in an exceedingly close race. Andy was high point man this season and has always been a consistent point winner. He specializes in the 220-yard-free-style and the 100-yard backstroke events. Incidentally he is the holder of two school records. The captain-elect has been a member of the squad for three seasons, winning a letter for each season.

On recommendation from Coach McGillivray, the following men were accepted by the Athletic Board as being eligible to receive letters. The customary minor letters will be given A. Weston, J. Cavanagh, and E. Byanskas. Giovan will be awarded a sweater.

Because of his stellar perform- Doctor Freudenberg ances during his stay on the squad, ex-Capt. Knox will be awarded a major letter. Knox is graduating this year and was recommended by of the major award.

Rifle Club Competes With State Experts

Last Saturday night the Armour Tech Rifle Club met its hardest competition of the season in the team shoot of the Illinois Rifle Association. This shoot was held at the Outdoor Meet at the Palmer House.

meet and as some excellent teams are entered every year, a team has to be above average to win a place. A trophy is awarded to the team that has the highest score and medals are given to the members of the first, second, and third teams. The results of this meet were not at hand at the time of this writing but the Armour boys should have a set of medals and have a good chance to win the

Last Thursday night, the individ-And the irrational number? Its ual shoot was held. Donald G. Wil-

On the 30th of this month the Rifle beautiful and infallible. Then, like Club will shoot against the Humboldt ceeded to remove from his personage a lightning bolt came the discovery Park Gun Club at their range. The \$13.50 in cash, one Illinois Central that the diagonal of a square was in- Armour boys are expected to win this

Protects Visit Large Can Factory

America's largest can manufacturing plant was inspected by the Se-Who cooked up this infinity idea | nior Fire Protects on their inspection

Large cans, small cans, thin cans,

The tin and sheet steel is intro-

A special part of the plant is de-"Number" presents the science of | voted to the plating of the insides mathematics in what to most of us of the cans to permit their use as is an entirely new setting: a back- | containers of food. This is necessary ground of humanism. The greater | because canned food eats away the iron and forms a very poisonous sub-

> The seeds of some fruits sometime sprout in the can and form a gas which reacts with the can if not coated with tin or some other metal. Therefore, it is vitally important to the canning industry that the cans be coated. This is accomplished by running the cans through an electroplating machine or by coating by means of an acid reaction. Sometimes it is necessary to coat the cans with some special alloy in order to preserve the contents of the can.

The American Can Company have Perhaps the keynote of the entire employed in the research depart- an extensive chemical laboratory their cans for acidic reaction and to C. Kley Miller '25, has a daugh- make sure they are safe for food, as

> About twenty Fire Protects went on the trip, led by Professor Holmes.

New Books

NON-TECHNICAL This Thing Called Broadcasting Alfred Goldsmith

> The Engineer J. H. Hammond

Education of a Princess Marie, Grandduchess of Russia

> TECHNICAL Our Mobile Earth R. A. Daly

Principles of Engineering Thermodynamics Kiefer & Stuart

Internal Combustion Engines J. A. Polson

Structure of Line Spectra Pauling & Goudsmit

Will Address Chemists

The subject of the regular monthly to the Institute. Coach McGillivray as being worthy meeting of the American Chemical Society to be held Friday, May 1 at awarded his chemical engineering de- for the Varsity which they will be With the exception of Knox, the the City Club is one which will be gree from Columbia University with out to avenge. Evergreen Country team's roster will remain intact next of unusual interest to chemicals beseason and therefore will be expect- cause they have studied it in considered to display its usual winning qual- able detail in organic chemistry. "Optical Activity and Configuration" is the title of the lecture to be given by Karl Johann Freudenberg, Ph.D., Professor of Chemistry at the University of Heidelberg.

In addition to the main lecture which begins at 7:30, there will be the usual group meetings at 8:45. Among them are "Glass Blowing Technique", a film to be shown to the Physico-Chemical Group, and "The Structure of Gelatinous Precipitates" to be spoken on by J. R. Bayliss to It is considered a very important the Inorganic and Analytical Group.

FRATERNITY NOTES

PHI KAPPA SIGMA

The annual Father and Son banconducted on a somewhat different plan this year. It will include an inspection of the lighting display of the Chicago Lighting Institute in the Civic Opera building preceding a buffet supper. The Northwestern and Chicago chapters are included with the local chapter.

DELTA TAU DELTA

Frank Davis and L. Packer Brown visited us and extended congratulations on the approaching thirtieth birthday of the chapter.

TRIANGLE

Brothers Windbigler and Venema were elected to represent us at the Twenty-Second Annual National Convention which is to be held this Thursday, Friday, and Saturday, at the Edgewater Beach Hotel.

The chapter as a body attended the funeral of our honorary Brother Alfred E. Phillips, whose death was a blow to our fraternity as well as

Marsh Whitfield '30, has been in a year after graduation from Club will be the host. Armour.

a ping pong match which will be faculty: Bibb, Huntley, Ensz, Alliplayed within a week. The Truss | son, Heald, Sear, Leigh, and Graf-Club was defeated by a score of 4 ton. Varsity honors will be upheld to 1 in a baseball game with the by Captain Weis, Johannisson, Pear-

SIGMA KAPPA DELTA Hard Times showed its effect at the annual Sigma Kappa Delta Hard Time party held Saturday, April 18. This year the other fraternities at Armour were invited to attend, nearquet that is to be held May 8, will be | ly every one being represented. The music was furnished by Bob Woodruff and his snappy orchestra. These fellows as well as the other merrymakers, were dressed to suit the occasion. The costumes ranged from doll to housekeeper's outfits for the ladies, while the men represented themselves in varying fashions-

from farmers to milkmen. Eugene Voita, an alumnus architect, has received first honor in the international contest sponsored by the Chicago Bridge and Iron Works Company.

Phil Deiwert '28, is back with us again after a brief visit to Indi-' anapolis.

Faculty and Varsity To Compete in Golf

The faculty will engage the Armour Varsity golf team in a match next Saturday. This is an annual affair in which the Professors usually display a great deal of skill.

Last year's contest shows a defeat

Advance information shows that S. K. D. has been challenged to the following men will represent the son, Ollison, Wyant, and Weldon.

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