



## ANNUAL FRESHMAN SMOKER SET FOR NEXT FRIDAY EVE

### Schommer and Amsbury Featured on Program

AT W. S. E. HALL

Plans for the freshman smoker which have for several weeks been going through a period of development are soon to attain realization. This event is to take place next Friday night at 8:00 at the W. S. E. hall, located on the twelfth floor of the Engineering Building at 205 West Wacker Drive.

Since this is their first social event of the year, the frosh are striving hard to make it a big success. In order to achieve this and make the evening a highly successful and enjoyable one various forms of entertainment have been provided.

Professors Schommer and Amsbury, well known members of the faculty, have assured social chairman L. A. Callen of their presence as speakers on Friday night.

### Orchestra to Play

A fifteen piece orchestra recently formed among freshman students, is to play on the occasion, offering popular song hits of the day. Its members are: T. Cherwin, J. Cramer, B. Peterson, C. Cunningham, J. Tamney, N. Krause, N. Colburn, C. Wilson, C. Johnson, D. Traver, R. Ekroth, J. Rodigher, T. Reavy, B. Hemmick, and W. Gunderson.

### Tickets On Sale

Chairman Callen urges every freshman who possibly can to attend this event. Tickets are now on sale for a quarter, which will be amply repaid in the way of real enjoyment. Refreshments will also be served.

## Will Make Attempt To Split Atom Soon

Artificial lightning of 15,000,000 volts will be unleashed in the center of Berlin in March.

The artificial bolt will be used in an attempt to split the atom. It is believed to be one of the most dangerous experiments ever undertaken by man. The voltage has been heretofore unequalled.

One grain of water or any other matter contains energy which the experiments have calculated to be worth \$125,000.

Dr. Brasch, a member of the Institute of Berlin, said radium rays will be produced at greater strength. This is a disturbing feature for Gamma rays, with the old apparatus, will kill a man at a distance of 200 meters.

## Zielinske To Address Engineers Society

Mr. W. F. Zielinske, in his talk to be delivered this Friday, March 13, to the members of the Armour branch of the Fire Protection Engineering Society, will speak about spectacular oil fires. In addition, he will also discuss the properties of oil, the distillation process and the precautions against hazards.

As a speaker, Mr. W. F. Zielinske is considered by the society to be one of the best. He is an engineer for the Marsh & McLennan Insurance Co., formerly was in the Marines and has taught school in Cuba.

### SALAMANDER PLEDGES

Salamander, honorary Fire Protection Engineering fraternity pledged two juniors.

E. A. Scanlan, '32.

G. W. Schodde, '32.

at the noon meeting held on Friday, February 27, in their Chapin Hall Rooms.

## Seniors Try For Government Jobs

Over thirty seniors and one member of the faculty took the Civil Service examinations given by the Federal government on Wednesday and Thursday, February 25th and 26th in the Federal Building downtown.

The examinations were conducted in three sections. The first section was from 9:30 to 1:00 covering optional questions. These questions covered general engineering topics. The second section of the examinations was devoted to optional questions on structural engineering. Twelve civils and one mechanical tried their hands at this examination. Thursday morning from 9:30 to 1:00 was devoted to the examination on Aeronautics which was taken by Professor Jacobson.

There were over a hundred men taking these examinations. Of the thirty Armour men taking them there were twenty civils, four electricals, three chemicals, and two mechanicals in addition to Professor Jacobson who represented the faculty. The fact that no questions were asked on theoretical subjects such as Physics, Calculus, and so forth, was a good indication that the government was making the examination easy so as to hire a larger number of men than usual. Except in the case of the Aeronautics examination, all of the questions asked seemed comparatively easy.

## Varied Program At A. I. Ch. E. Meeting

A meeting of the Armour Branch of the A. I. Ch. E. was held in the Physics Lecture Room last Friday morning. F. B. Atwood, the president, opened the meeting with an apology for the absence of the speaker, who had been unavoidably detained.

Professor McCormack then filled in the breach by telling of a meeting of the American Safety Council that he attended last Thursday. The experiences that were spoken of during this meeting caused Professor McCormack to reminisce about some accidents that had happened to some of his own experiments.

### Accidents Liable

The laboratories of industrial plants, according to Professor McCormack, are much more rigid in respect to the wearing of goggles, rubber aprons, and leggings, than the college laboratories. But the industrial laboratories are doing work that is less certain than the schools and is therefore inherently more liable to cause an accident.

After a few experiences had been related, the speaker, Dr. Farringer, arrived quite breathless. Of course the lateness of the hour prevented the deliverance of the well planned speech that he had prepared, but in spite of all difficulties the speaker delivered an interesting informal talk on oils. At the close of the hour the seniors asked some questions which were out short by the bell.

## Eight Men in Class On Airplane Engines

Only eight men are enrolled in Professor Perry's and Roesch's class in airplane engines. The reason seems to be the extreme difficulty of passing the Navy's physical examination. A number of men are now taking this test at the Great Lakes station.

The course includes work on Liberty, Gnome, Wright-Whirlwind, Packard and other airplane engines. The hesitation of the men to enroll in this class is not due to the quality of the course, but because of the serious obstacle presented by the rigid requirements of the government.

## TALKIES LECTURE DRAWS CROWD TO A. I. E. E. MEETING

Mr. H. Merrill Smith of Electrical Research Products, Inc., the Sound Projection division of the Western Electric Company, gave an address on "Talking Motion Pictures" last Friday at the regular meeting of the A. I. E. E.

Mr. Smith first gave a detailed discussion of the method of recording the sound on the film. He traced the operations from the studio, through the "mixing panel" to the main amplifier, and through the bridge amplifiers and light valve to the film.

### Explains Recording Methods

The method in which the electrical impulses are sent through the light valve and recorded on the two most prevalent types of films, the varying area and varying density, was explained. The pictures and sound are taken on separate films, and after they have both been developed they are transferred to one film, the sound being on one side, on a strip about a tenth of an inch wide.

### Projection Described

The scene was then changed to the theater, where the reproduction of the sound was discussed. A light, focused to a fine line, is interrupted by the markings of the sound track on the film and then falls on the photo-electric cell, which changes the light impulses into electric impulses. These audio frequency impulses are then amplified about ninety million times by a series of high-gain amplifiers.

Several dynamic speaker units with huge air column horns are used to transform the feeble electric impulses into the crashing torrents of sound which may be heard perfectly throughout the largest theater. The speakers are elevated to two-thirds of the height of the screen in order that the sound may appear to be coming from the actor's mouths.

## Show Firebrick Film At A.S.M.E. Meeting

An important cog in the machine of iron and steel production and one of the factors which makes the manufacture of modern heat tempered alloys possible was seen on a film shown before the A. S. M. E. last Friday morning. This refers, to the modern firebrick, the result of years spent in the mixing and tempering of clays, which make up a firebrick that can resist the enormous temperatures developed in smelting furnaces and hearths.

### Shows Detail

The process of manufacture was shown in considerable detail and covered the whole business from claypit to storage warehouse through several different types of firebrick, these being made in many shapes and varieties to conform to the contour of the shell in the many styles of furnaces which are used by the industries.

Complete views of the kilns were shown in cross section with the circulation of the hot air indicated by arrows which made the function of the whole system very easy to follow.

In the first third of the tunnel kiln there is the pre-heating zone in which the brick is gradually brought up to a temperature somewhat below that of the next zone, the burning zone. In that zone the temperature is about the same from one end to the other and here the brick undergoes most of the physical and chemical changes which are its character when it leaves the oven. However, that is getting ahead of the story since exposure to the air with a subsequent sudden cooling would destroy the brick and in order to prevent this, the bricks pass through the last, or cooling kiln in which they drop to practically ambient temperature.

The film was shown through the courtesy of the Harbison Walker Company of Pennsylvania.

## Glee Club Asked To Tour Europe

John Walker, president of the Glee Club, has received a communication from the University of Michigan Glee Club that should be of much interest to every member of the club. This ambitious glee club, of U. of M., is now at work on a European tour for next summer and invites the ARMOUR Glee Club to come along.

### Called "Golden Days"

"Golden Days" has been chosen as a name for the tour which will sail from New York, July third, aboard the S.S. Republic of the United States Lines. Nearly five weeks will be spent in Europe visiting places famous in history and literature: London (2 days), Windsor, the Shakespeare country; The Hague, Amsterdam, The Isle of Marken, Cologne, up the Rhine to Wiesbaden, Heidelberg, The Black Forest, Lucerne, The Grand Alpine Motor Tour to Interlaken, Montreaux and the Castle of Chillon, by the Simplon Tunnel to Milan, Venice, Florence, Rome (2 days), Genoa, along the Riviera to Nice, Monte Carlo, Paris (4 days), Versailles, Cherbourg. The tour will end at New York on August 24th.

The group plans to rehearse on board ship on the way over. Two or three thousand dollars are expected as proceeds from European concerts and this is to be divided equally among the members to help defray the cost of the trip which is \$585. All those interested should see John Walker of the Glee Club.

## Fire Protects Inspect Oil Refining Process

Last Thursday the Junior Fire Protects went on an inspection trip to the Refinery of the Standard Oil Company of Indiana at Whiting, Indiana. The plant at Whiting covers over fourteen hundred acres and is evaluated at more than one hundred million dollars.

When the group arrived at the plant, they went directly to the main office where they were provided with a junior Engineer, who acted as a guide. They started the long trip by watching the crude oil coming in from pipe lines that originate in Texas and Oklahoma. From the control room, where crude oil enters the plant, the fire protectors started their climb over steps and across fields by going to the room where wax was being removed from the crude oil. It was noted that the Fuller's Earth, that was being used here in a filter press, could be renewed by heating so as to be used ten or eleven times. The wax is removed by crystallizing it out of the oil at a low temperature.

The men then followed the wax from the press to the candle de-

(Continued on page 3)

### Calendar

Tuesday, March 10  
5:00 P. M.—Orchestra Rehearsal.  
7:30 P. M.—Track Meet—Armour vs. Sears Roebuck Y. M. C. A. at Bartlett Gym.  
7:30 P. M.—Swimming Meet—Loyola vs. Armour at University of Chicago.  
Wednesday, March 11  
5:00 P. M.—Freshman Orchestra Practice.  
Thursday, March 12  
5:00 P. M.—Glee Club Rehearsal.  
Friday, March 13  
10:30 A. M.—A. R. A. Meeting, Electrical Lecture Room.  
5:00 P. M.—Freshmen Orchestra Practice.  
Saturday, March 14  
Track—Armour's Relay Teams at 14th Annual Illinois Relays, Champaign, Illinois.  
3:00 P. M.—Swimming—Illinois Wesleyan College vs. Armour at University of Chicago.

## Rifle Club Certain To Win State Meet

Almost certain of winning the Illinois state rifle championship the Armour squad is now in the last week of the six weeks of competition. At present the squad is 221 points ahead of the second place team, the Slifer Legion Post aggregation. The McHenry (Ill.) club dropped to third place last week after holding second place for four weeks of the meet.

In the individual standings S. J. Patla, C. E. '33, is leading by 25 points. Last week the Tech squad met and defeated a team composed of the best shots of the other nine clubs in the Tribune meet. Morgan Park Military Academy was also a victim of the Armour marksmen during the past week, losing to our men by 58 points.

## Welded Joints Used In Steel Building

"Welding in The Carnegie Steel Building," was the title of the illustrated lecture, presented at a meeting of the W. S. E. by Professor Heald of the Civil Engineering Department.

The lecture, which depicted the construction of the first all "welded," steel frame building, was delivered at 10:30 last Friday, in room B, Mission, to an audience of about fifty Civils.

The speaker in opening his address, gave a brief summary of the development of electric arc and gas welding connection with steel structures. He told of how, in 1930, a building of skyscraper design was constructed with gas and electric welding as the only medium of joining the various members of its frame.

### Located in Cleveland

This structure, known as the Carnegie Building, was erected at Cleveland, Ohio, by the Carnegie Steel Co. The building is four stories in height and covers a ground space of sixty by one hundred and twenty feet.

Moving pictures served as positive proof of the Professor's assertion that aside from the greater safety factor to the workers, the main virtue of construction by welding was its lack of noise, for no matter how fiercely the electric arcs glowed, throughout the entire picture not a sound or snap could be heard.

## Inter-Honorary Men Plan Dance On May 1

Most of the school intellectuals will be present at the Inter-Honorary Dance to be held on May first. Richard Eddy and Fred Atwood, members of the committee say that this date is definite although the place and the entertainment have not been decided on yet. The following organizations are participating to make this event a success:

Chi Epsilon  
Eta Kappa Nu  
Honor "A"  
Phi Lambda Upsilon  
Pi Nu Epsilon  
Pi Tau Sigma  
Salamander  
Sphinx.  
Tau Beta Pi

## Outdoor Cycle Photos Will Be Taken Soon

Last Friday, March 6, the first Cycle pictures were taken in the gymnasium and in the Assembly Hall.

In about three weeks, A. H. Jens, editor-in-chief of the 1931 Cycle, will arrange a schedule for the taking of the outdoor pictures. A platform will be erected at one end of Ogden Field, and photographs of each class will be taken separately. For this purpose, each class will be divided at random into four sections, and pictures will be taken of each group.

## FOUR CANDIDATES FOR POSITION OF JUNIOR MARSHAL

### Need Thirty Signatures to Place Name on Ballot

### ELECTION THIS WEEK

The campaign for the election of Junior Marshal started last week with the circulation of petitions for nomination. J. B. Dirkers, F. P. E.; H. P. Richter, C. E.; R. F. Waindle, M. E., and H. W. Yount, F. P. E., are the men who at press time had almost the required thirty signatures for nomination. There are 168 members in the junior class. Duplicate signatures will be stricken from all petitions on which they appear. The election for Junior Marshal will probably be held this Thursday, though this is not definite.

### Direct Junior Week

The Junior Marshal and the four assistant marshals who are appointed by him have direct control of the Junior Week activities. Plans for the annual Class Rush; setting of dates for the Interfraternity track meets and games; and arrangements for Open House Night are some of the many duties of these men. Junior Week is probably the most important college event of the year and the success depends greatly on the ingenuity of the marshal and his assistants.

Setting of the date for Junior Week automatically sets the date for the Junior Formal as the following Friday.

### Overseer Class Rush

The freshman-sophomore class rush, the annual battle for class supremacy which takes place during this memorable week is overseen by the marshals in their resplendent jackets. Reports have it that the competition in the Interfraternity Pageant will be unusually stiff this year.

## Motion Pictures On Steam To Be Viewed

An opportunity to view several reels of motion pictures, entitled "Steam," will be afforded members of the A. S. M. E. next Friday, March 13.

Animated drawings will be used to explain the passage of water, steam, and gases through many standard types of steam power installations. These are to be presented first in order that the actual views of the various units, which will follow later, may be better understood.

Pictures of modern boilers, the latest superheaters and economizers, and many similar items of equipment will show these components both in operation and under construction.

The Babcock and Wilcox Co. have arranged these films.

## Change Call Letters Of Tech Radio Station

Through the efforts of Professor Wilcox and the officers of the Armour Radio Association, the call letters of the Armour Amateur Station were changed from W9NV to W9YW by the Federal Radio Commission.

The letter Y designates that the station is being operated by a school or college. The 9 indicates that it is located in the Ninth Federal radio district and the W is the international prefix carried by all amateur stations in the United States.

The members of the A. R. A. will hold their bi-monthly meeting Friday in the Electrical Lecture room on the second floor of the main building at 10:30 o'clock. All men interested are cordially invited to attend.

# Armour Tech News

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Published Weekly During the College Year



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Vol. VII MARCH 10 1931 No. 5

"Our Federal Union: it must be preserved."  
Andrew Jackson.  
Born March 15, 1767.

## What's Ahead Of Us?

Undoubtedly there exists in the mind of every Armour student a question—tucked away in the corner, perhaps, but present nevertheless—as to just what the world will expect of him after graduation. He is constantly asking himself what this world of engineering is really like, this world about which we hear so many conflicting reports. He is wondering which of his numerous studies are most essential to his success in engineering or in some kindred field. His curiosity on this subject is quite logical and entirely pardonable and should be satisfied as completely as possible.

An address presented recently at Lehigh University by Bancroft Gherardi, vice-president and chief engineer of the American Telephone and Telegraph Company, may offer an answer to these questions. His statements bear weight since the vast number of college graduates employed by the Bell System makes him thoroughly conversant with the qualifications and shortcomings of such men.

According to Mr. Gherardi, there are four chief characteristics essential to any successful engineer. First, he must have the perception and imagination clearly to understand the problems he meets. Such understanding calls for intelligence and judgment.

Second, he must be able to study such problems in a systematic and efficient manner. Third, he must have the ability to determine the appropriate action to be taken in the matter, a keen sense of justice being required for this; and fourth, he must know how to take that action at the right time and in the proper manner.

Mr. Gherardi advocates a general foundation in mathematics and physics and "materials which will enable him [the student] to solve the special problems that come before him by getting the facts—and then reasoning from them correctly." Teaching of facts beyond the fundamentals is not necessary, that time being spent more profitably in a thorough drill in the methods of attacking problems of various kinds.

In his address, Mr. Gherardi stressed the study of English and gave as his opinion that the ability to write clear convincing English was absolutely necessary to the successful engineer. He also said that the knowledge of at least one foreign language was quite important.

In closing he pointed out that accuracy and carefulness could not be overemphasized. "Many students," he said, "are of the opinion that arithmetical errors are not as important as errors of method or reasoning. However, an incorrect result is useless, no matter how the mistake was made." W. H. R.

# "The Slipstick"

Cleave to "The Slipstick"; let the Slipstick fly where it may.

### THE GOOD OLD DAYS

Adam had his troubles,  
No doubt, in days of yore;  
But no one said, when he told a yarn,  
"I've heard that one before."

THE BONGINEER SAYS THAT MANY A NOBODY WHO ISN'T KNOWN BY ANYBODY BECOMES A SOMEBODY AND IS KNOWN BY EVERYBODY, AND EVERYBODY TELLS HIM THEY KNEW HIM WHEN HE WAS A NOBODY AND THEY KNEW HE WOULD BE SOMEBODY, SOMEDAY.

### HOW ABOUT A MICROSCOPE?

A dear old lady was told that the police were looking for a man with a monocle.  
"But surely it would be better," she said, "if they were to use a telescope."

We hear much nowadays about the broadcasters trying to find a noiseless type of manuscript paper. Knowing as we do that it ain't always the paper that makes the noise anymore than the railroad track makes noise when the loco goes by, we hasten to suggest the use of transparent ink on the new cellophane for some of the speeches we hear.

Dere Kolume:  
i ain't no literatoor riter but then the Kolume ain't no swell thing so i gess i'll rite about these track guys dat go around in derc B.V.D.'s and trow iron baseballs and jump over sticks with stix and widout stix an run aroun till ther dizzy an c dubble. but what i want to no is watt gud do they get out of it?  
—Aloysius.

During the war a recruiting officer in the country happened to see a young man milking a cow. The officer asked him angrily:  
"Young man, why aren't you at the front?"  
"Because the milk is not at that end."

Friday the 13th, next Friday, all day. We once heard something about such Fridays; something about them being someone's birthd—, no, that wasn't it. anyway, next Friday, the 13th, denotes something or other.

What! The "Star Spangled Banner" to be the national anthem? That won't help. Wat we need is legislation to put people behind the bars for not knowing the third word in the second verse, 'ats wot we need.

### Just the Type

We are told of the good mother who was disturbed over her son, who had been in Italy studying for three years.  
"I'm so worried that he'll get so Italicized he won't come home."

Senior: "What's the idea of turning your sox inside out, frosh?"  
Frosh: "Well, you see my feet get so hot that I thought I'd turn the sox on them."  
—A'Plotzen Zoista.

Reformer: "The devil is at work in our colleges."  
Professor: "Then he can't be a student."  
—Sparks.

### INDISPENSABLE

Professor: "What book has most influenced your life?"  
Co-ed: "My father's check book."

### LET THE EXPERTS TRY.

Professor: "If molecules can be split up into atoms, and atoms broken up into electrons, can electrons be further split up?"  
Smart frosh: "Well, Professor, they might try mailing them to somebody in a package marked, 'Handle With Care.'"  
—Dollar Bill.

Levy: "I say, Meyer, did I told you that I got married again, to a rich viddow?"  
Meyer: "You dunt say. Vas she married more than vunce?"  
Levy: "More than vunce, so you hesk? Hah! Veding bells is to her vot alarm clocks is to you."  
—Asiff Ikahred.

Old lady: "If you really want work, Farmer Gray wants a right-hand man."  
Hobo: "Jus' my luck, lady; I'm left-handed."

### Only One Dollar Down

Installment Collector: "You're several installments behind on your piano."  
Purchaser: "Well, the company advertises, 'Pay as You Play.'"  
I. C.: "What's that got to do with it?"  
P.: "I don't play very well yet."

A traveller was walking along a lonely road when he came across an old man. Addressing him, he asked how long it would take to get to the next village. But the man went on with his work, neither speaking nor looking up. The traveller went on his way.

He had not gone far when he heard a call:  
"Hey, mister! Come Back!"  
When the traveller returned, the old man said:  
"It'll take you twenty minutes."  
"Why didn't you tell me that when I asked you?"  
"How did I know how fast you was goin' to walk?"  
replied the old man.

Continued next week! Please stand by!—Phil J.

## Arx News

If you get pleasure in seeing a young man's beaming countenance become clouded, just walk through the freshman architectural room and nonchalantly mention something about the freshman initiation. It is now the topic of the day. The exact date has not been set as yet, but it will most likely be in the last of March.

The Armour Architectural Society sponsors the initiation. Each year the freshman class is brought into the society with the junior class officiating. The juniors elect a massier who takes full charge of all the activities and is toastmaster at the banquet which follows the initiation. This year's massier is our well-known cartoonist, Dave Chapman. The banquet is a gala affair, usually held at the Architectural Sketch Club, and the Archs have been fortunate in getting many brilliant and fascinating speakers in previous years. Final date and arrangements will be published later.

Freshmen—Don't forget to make your paddles! (A word to the wise is sufficient).

In the judgment on the senior project which was a "University Club," Nathan Rosen received a second medal locally while the rest of the boys came through with either mentions or half-mentions. In New York the judgment was exceptionally stiff and only two men rated. These were Rosen and Mell.

A few issues back we wrote in the column about Al De Long and Tom Carter, and their plates for the Rome collaborative prize. We knew that you would be interested to know that they both received honorable mentions in New York.

## Inquiring Reporter

The Question: What do you think of the idea of the Senior-Junior and the Sophomore-Freshman combinations for putting on dances rather than the individual class dance as has been the previous practice?

Charles Link, M. E. '31—While the plan might be feasible in the light of present financial conditions of the classes, it would undoubtedly be detrimental to established social policy on that it would reduce the amount of social activity that is already quite small.

Stanley Lind, Ch. E. '32—Not so good. There is not enough social life at Armour now. Each class can afford a dance if correct management is practiced on the part of the social committees.

Harold Bodinson, F. P. E. '33—If a particular class is financially able to afford a dance every year, it should be the practice of that class to sponsor a dance annually. Each class should be in charge of its own affairs and at the same time

should benefit by the support of the rest of the students.  
Robert Swanson, F. P. E. '34—Could give a bigger and better affair by the combinations.  
James Casey, C. E. '32—Each class can afford a dance if properly managed. Any move that is made in this direction merely diminishes the class and school spirit.  
Norman Fenfold, M. E. '33—Only have one dance a year and they ought to have it by themselves when they do hold it.

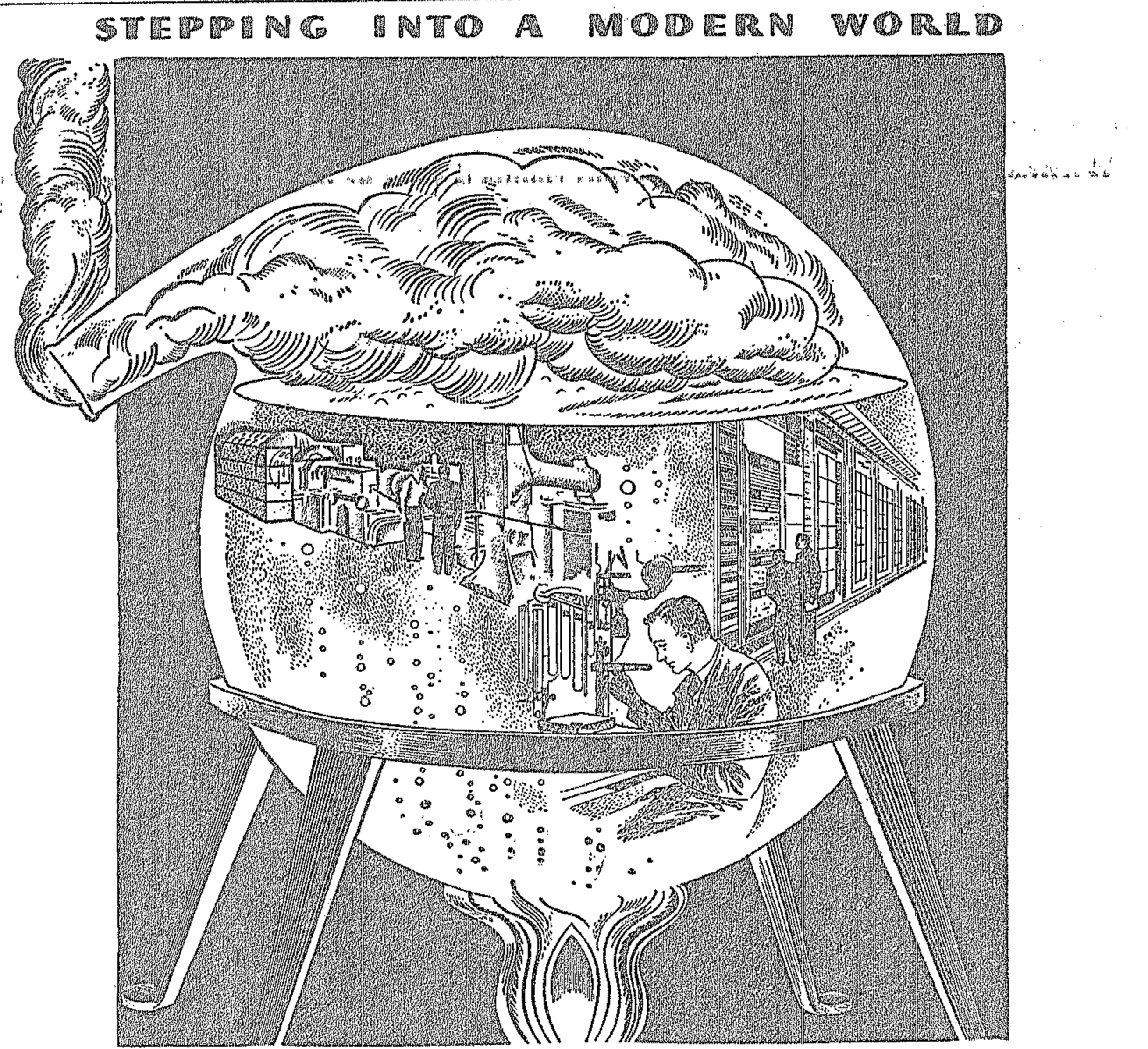
Humans learn slower than rats, according to results of experimental work on white rats done by Prof. John F. Shephard, of the University of Michigan.

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Reviews

MEMORIES AND VAGARIES

By Axel Munthe

If ever the power of the printed word to actuate human feeling be questioned, let the works of Munthe speak. Eloquence, realistic beauty and a most touching humanity mark everything he attempts. "Memories and Vagaries" is a collection of sketches written early in his life, just at the commencement of his professional career. Though he was still young enough to express himself with spontaneous youthfulness, he had already acquired a poetic personality, quick to sense the moods of people, quick to visualize their feelings and imagine their thoughts. The result is delightful.

The stories in "Memories and Vagaries" deal, for the most part, with the poorer class of Italians in Paris and Naples in whom the young doctor was especially interested. These are grimly pathetic and so essentially human that we feel we know his characters intimately. Sympathy and an astonishing humanness are the domi-

nant notes; there is no attempt at sneering superiority or detached impersonal analysis. Meet Don Geatono, "who did not die of starvation, and that was about all he asked of life"; Monsieur Alfredo, wrote wrote wildly tragic plays which no one ever saw. "The only audience the poor old man ever had was me; why then, shouldn't I applaud him a little, he whom life had so unmercifully hissed?" And Raffaella and Philomene and the Salvatore family; all so real that we expect to lift our eyes from the page and see them before us in the bitterness and sorrow of actuality. There may be humor, but it is grim stuff.

Other sketches possess a light touch which everyone can enjoy. These are not about people; they are about the dogs of a small island off Naples, "who, like the Ancient Romans, devote a greater part of

their day to public life." Munthe, with apt metaphors and brilliant consistence of personification, presents an almost rollicking description of their organization and duties as an integral part of the scene of Capri, the island. Because of his deep love for all living things and his sympathetic nature, he is able to ascribe to their every action a motive so human that we cannot fail to be amused.

A few short essays are included in the book. These, because they are simply expressions of opinion, are perhaps not as suited to the author's style or special ability. They are exactly what we might expect of any intelligent, educated young man; no better and no worse.

I liked "Memories and Vagaries" for its beauty, its touching appeal to the senses, and because it was the most interesting writing I had seen for many months.

FRATERNITY NOTES

BETA PSI

Mr. C. I. Carlson, M. E. '22, and Mr. W. Mathews were visitors at the house on Friday, February 27. They are instructors in the East High School of Aurora.

April 11 has been set as the date of a Hard Times Masquerade party. The orchestra has not, as yet, been selected.

Brother McGee, formerly of the Delta Beta chapter at Middlebury, visited us on Saturday, February 28. He is now studying at the Coyne Electrical School here in Chicago.

KAPPA DELTA TAU

The social committee is busy formulating plans for the annual East Dinner Dance.

Friday night started probation week for the following men: Morris Wise, Arch., '33; Milton Glazer, Arch., '34; Harold Goldman, Ch. E., '34; Norman Krause, Ch. E., '34.

DELTA TAU DELTA

The annual Delta Prom was held last Friday night, March 6, in the Bal Tabarin, Hotel Sherman.

Henry W. Clausen, Armour, '04, paid the chapter a surprise visit last Tuesday night.

James M. Alear is convalescing in Prairie du Chien, Wisconsin from the effects of an appendicitis operation.

TRIANGLE

Roy Young and Vernon Alexander are in charge of the Initiates Dance that is to be this coming Saturday evening.

Brother Geiss, Purdue alumnus, paid us a visit and later drove to

Lafayette with Jack Crawford, his former roommate. Jack is now making his home with us on the boulevard.

PHI PI PHI

Gamma Chapter announces the pledging of D. Story, C. E., '34.

Probation week, better known as Hell Week, started yesterday for the following pledges: James Castanes, LeRoy Lynch, Robert Simpson, Richard Kamp, Thelford Kelch.

PHI KAPPA SIGMA

Several of the fellows from Alpha Epsilon attended a smoker at the Chicago chapter of Phi Kappa Sigma last Friday. There has been a trend lately to exchange invitations to various social functions, and in this way the three chapters in the Chicago area will be brought closer together.

# Why we spend \$2,000,000 to put CAMEL cigarettes in the new HUMIDOR PACK

We have been in the tobacco business a long time down here at Winston-Salem and we take a lot of pride in the quality of the cigarettes we make.

While we have spent a good many million dollars advertising Camels, we've always held to the old fashioned idea that the thing that really counts is what we put into our cigarette and not what we say about it.

If we know anything about tobacco, and we think we do, Camels contain the choicest Turkish and the mellowest, ripest domestic leaves that money can buy.

In fact we have every reason to be proud of the quality of Camels as they come from the factory, but the remark of an old friend of ours from Denver some time ago emphasized a point that has been the problem of the cigarette industry for years.

As he inhaled the smoke from a Camel we gave him in our offices one morning, he sighed with very evident enjoyment and then asked jokingly, "What is this, a special blend reserved for Camel executives?"

"Certainly not," we told him. "This package of Camels was bought at the corner store this morning."

"Well," he said, "I've been a dyed in the wool Camel smoker for a good many years, but upon my soul I never got a cigarette as good as this in Denver. If you would give the rest of the world the kind of Camels you sell here in Winston-Salem, you ought to have all the cigarette business there is."

THAT statement simply emphasized again the cigarette industry's most important problem. The more we thought about it, the surer we were that he was dead right, and that somehow, something must be done.

Denver wasn't getting a fair break. Neither in fact was any other town. The only people who really knew how good Camels could be, were the folks right here in Winston-Salem.

That was due to a factor no cigarette manufacturer had ever been able to control.

Naturally there is no difference whatever in the quality

of the tobacco in Camels, whether you buy them in Winston-Salem, Denver or Timbuctoo. But up to now there has been a very real difference in the condition of the cigarettes by the time they reached the smoker.

The flavor and mildness of fine tobacco depend upon the retention of its natural, not added, moisture content which is prime at about ten per cent.

In spite of our great pains always to make sure Camels left the factory with just the right amount of natural moisture, no cigarette package had ever yet been designed that could prevent that precious moisture from drying out.

THERE are three things about a cigarette that can sting the tongue and unkindly burn the throat.

- (1) Cheap tobaccos.
- (2) Particles of peppery dust left in the tobacco because of inefficient cleaning methods.
- (3) A parched dry condition of the tobacco due to loss of natural moisture by overheating or evaporation.

Always certain of the quality of our tobaccos we had already made Camel a "dustless" cigarette by the use of a specially designed vacuum cleaning apparatus exclusive with our factory.

Now, if we could perfect a package that would actually act as a humidior and retain the natural moisture content, then Yuma, Arizona, could enjoy Camels as much as we do here at Winston-Salem.

We knew what we wanted. We tried many things. We asked the Pittsburgh Testing Laboratory to help us.

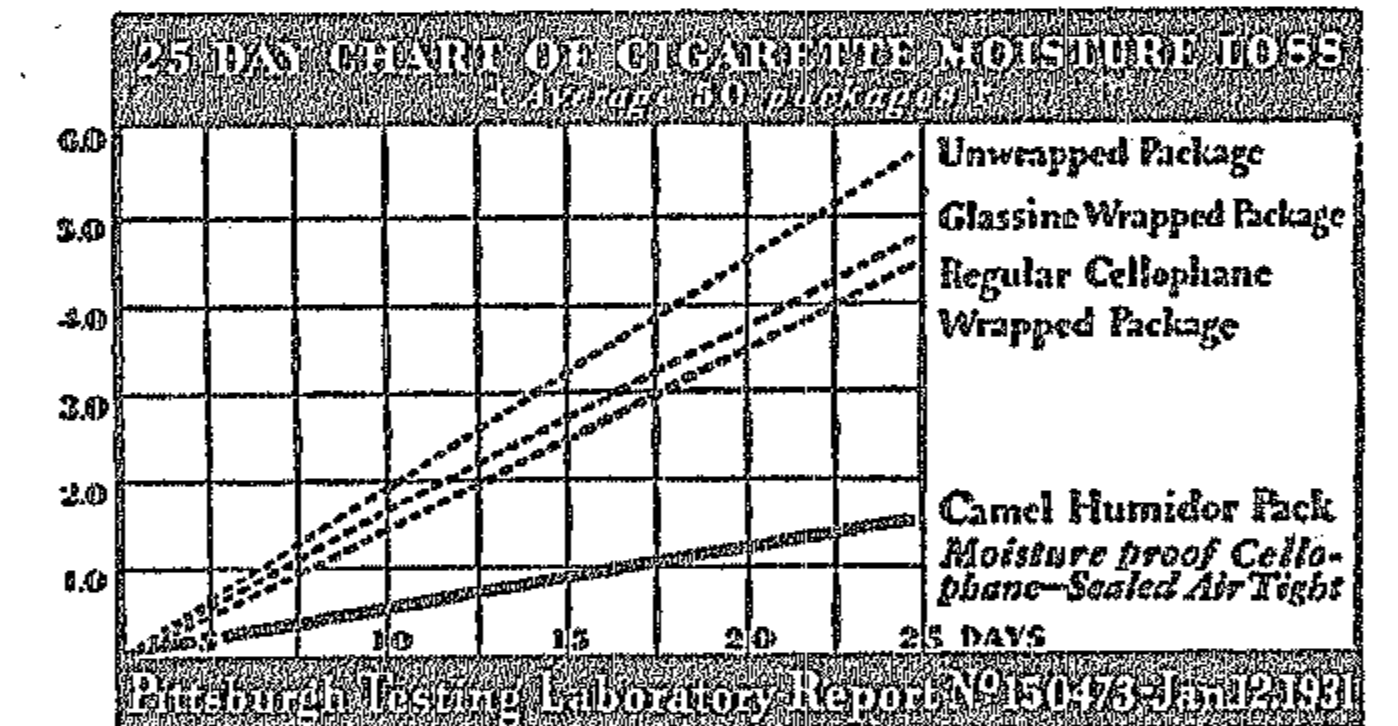
After many experiments and humidity tests covering all methods of packing cigarettes came the detailed report of which this is the net:

- (A) No existing cigarette package, including those wrapped in glassine paper or ordinary cellophane, gives anything like adequate protection against evaporation.
- (B) All cigarettes so packed tend to dry out rapidly from the day they are released from the factory.
- (C) Only a waterproof material with a specially devised

air-tight seal could give the desired protection.

(D) This measure, while costly, could be relied on to keep Camels in prime condition for at least three months in any climate.

If you have a technical bent, the graph below made by the Pittsburgh Testing Laboratory will show you the exact results of their exhaustive study.



Pittsburgh Testing Laboratory chart above graphically shows you that only the Camel Humidor Pack delivers cigarettes to you in prime condition

YOU may be sure we gave this report a lot of careful study. We checked it and re-checked it and then we went ahead. We tried this device and that. At last we met success. The air-tight wrapping involved the designing of special processes, special machines.

That costs a lot of money, more than \$2,000,000 the first year, but after you have tried Camels packed this modern new way we are sure you will agree it is a fine investment.

For some time now every Camel that has left our factory has gone out in this new Humidor Pack.

We have said nothing about it until now, to make sure your dealer would be able to supply you when the good news came out.

Camel smokers of course have already discovered that their favorite cigarette is better and milder now than ever before.

If you aren't a Camel smoker, try them just to see what a difference there really is between harsh, dried out tobacco and a properly conditioned cigarette.

You can feel the difference, you can hear the difference and you certainly can taste the difference.

Of course we're prejudiced. We always have believed that Camel is the world's best cigarette.

Now we know it. Just treat yourself to Camels in the new Humidor Pack and see if you don't agree.

R. J. REYNOLDS TOBACCO COMPANY  
Winston-Salem, N. C.

**NEW BOOKS**

**NON-TECHNICAL**  
Coblentz, Stanton A.  
Shadows on a Wall (poetry)

Tousley, Albert S.  
Where Goes the River

**TECHNICAL**  
Jones, David Louis  
Diesel Engines

Macmillan, Wm. Duncan  
Theoretical Mechanics

Lloyd, Thomas Cox  
Electrical Equipment

Timoshenko, S.  
Strength of Materials 2 v.

Junior Fire Protects Witness Oil Cracking

(Continued from page 1)  
partment where it was melted, dyed, and poured into huge moulds. Every type of candle is made from this wax, some being made for ornamental purposes, some for the light that they give, and still others for religious uses.

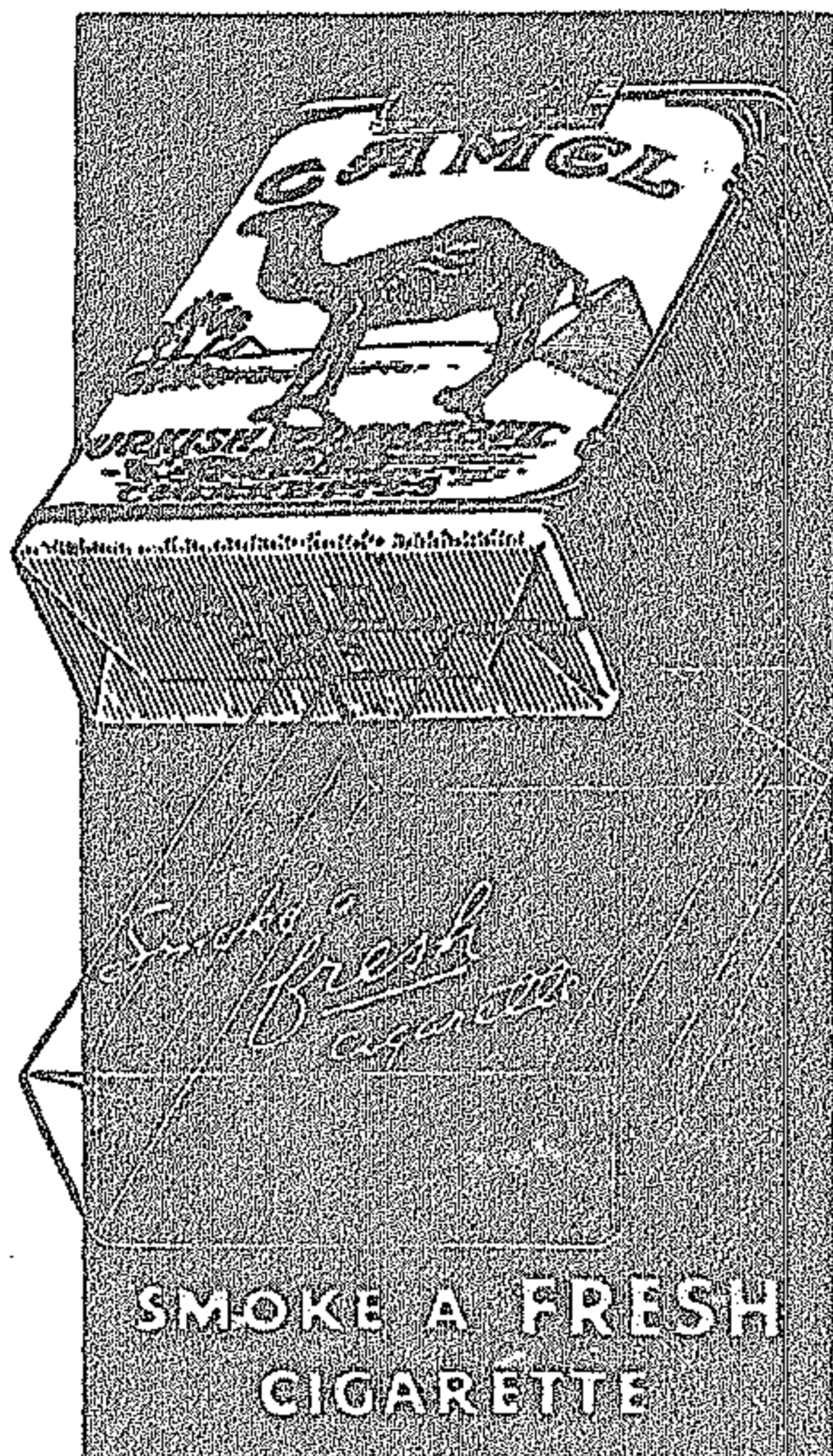
Arriving at the end of the wax trail, the fire protects again looked to the oil. By this time it had been separated from the wax and was being distilled in huge tanks. Then, the heavy hydrocarbons that were left were pumped to other stills where they were cracked under high pressure and temperature. The first two products were gasolines marketed by the Standard Oil Stations.

The next batch of distillate was made into kerosene. The heavier hydrocarbons that were left from the other processes were made into oils. Finally, the heaviest of the paraffins became greases of various kinds. The remainder, a black, gritty-appearing mass, was then shoveled into a car to be sold as coke.

A new improvement over the old method of purifying oils, that does away with the irritating odor of sulfuric acid has been perfected. An innovation in this design prevents fumes from getting into the air.

One of the interesting plant features was a huge battery of printing presses that made all the boxes and containers for the by-products. By-products include candles, medicines and furniture polishes. Professor Schommer and the twenty men who accompanied him were very much impressed with the completeness of the refinery. Laboratories are busily at work to find other uses to add to the many already in existence for the complete and economically successful disposition of the portion of the oil left after the gasoline is refined.

On Friday 27, the senior fire projects visited the Wabash Exchange of the Illinois Bell Telephone Company. The fire protects who made this trip were very much interested in the clever manipulation of cords by the operators as well as the fire hazards involved.



# TECH MERMEN DOWN LOYOLA TANKSTERS BY 33 TO 31 SCORE IN CLOSELY FOUGHT BATTLE

## Armour Swimmers Inconvenienced by Odd Pool Construction and Poor Lighting

### MEET ILLINOIS WESLEYAN SATURDAY

True to expectations Armour downed the Loyola tankmen last Thursday, March 5, by a score of 33-31, at the Loyola 75 foot pool on the north side.

Armour held their own in most events. Cavanagh had little trouble in winning his breast stroke event. Kolve, an Armour freshman, pulled in with a good second, being a full half length of the pool ahead of the third man from Loyola. This event is one that Armour has won almost consistently for the past four or five years.

Due to poor lighting and a rather strange construction of the pool, the Tech men missed several turns. This was true of captain Knox who lost the 50 yard freestyle to Trick, north side star. The time 0:25.2 was good for a long pool.

#### Thomson, Brockman Place

Gotchalk of Loyola was another star. His 200 pounds proved no handicap when he won the diving event from Thomson who was a close runner-up. However, it did crack the springboard, not seriously, but enough to cause Thomson's 135 pounds to take some parabolic curves not found in a math book. Brockman a new Armour student, scraped up a third in this low board event.

Credit must be given to Zickus of Loyola who, handicapped by the total loss of one leg, never-the-less took second in the 200 yard swim. He also entered the diving event.

#### Weston Cops Two Firsts

Andy Weston starred for Armour by winning first place in both the 20-yard free-style and 100-yard back stroke events. He has consistently scored points in all of Tech's meets.

A close race was the 100 yard freestyle. Here Carlstrom got away with a beautiful start. His sailing dive carried him more than half-way down the pool before he opened up steam. This meant a two foot lead on his nearest opponent, Coven. As Carlstrom was just rounding the third turn, still in the lead, the unexpected happened. In the darkness instead of turning he ran right into the tile wall which was just enough to enable Coven to win and give Carlstrom a second.

#### SUMMARIES

200 Yard Relay—Won by Loyola team (Coven, McGuire, Feldstein, Trick); Armour, second. Time, 1:46.

100 Yard back-stroke—Won by Weston (A); Coven (L), second; third, Davidson (A). Time, 1:23.3.

100 Yard breast-stroke—Won by Cavanagh (A); Kolve (A), second; Nurenburger (L), third. Time, 1:16.

50 Yard freestyle—Won by Trick (L); Knox (A), second; Byanskas (A), third. Time, 0:25.2.

20 Yard freestyle—Won by Weston (A); Zickus (L), second; Giovan (A), third. Time, 2:34.0.

Low board diving—Won by Gotchalk (L); Thomson (A), second; Brockman (A), third.

100 Yard freestyle—Won by Coven (L); Carlstrom (A), second; Feldstein (L), third. Time 1:03.0.

Water shortage caused the sale of soft drinks at the book store of Virginia Poly Tech. to double last year. The swimming pool at the University of Indiana has been drained for the same reason.

The oldest freshman in the world is 72 years old and obeys the frosh rules at the University of Chicago.

A return swimming meet with Loyola University will probably be held tonight at 7:30 P. M. at the University of Chicago pool. These U. of C. meets are always open to the public free of charge.

Next Saturday March 14th, the Illinois Wesleyan College swimmers will stage a return meet with the Tech boys. This will also be held at the U. of C. pool probably in the afternoon. It will be recalled that the Armour swimmers on their trip a few weeks ago trimmed the Wesleyan team at Bloomington, by a score of 49-27. This return meet is expected to have the same general outcome.

### Boxers Ready For Preliminary Bouts

At a meeting held last Friday in the gym, it was decided to hold the first preliminary bouts of the boxing tournament on Friday, March 20, in the tech ring.

The drawings and weighing in will take place next Friday at which time contestants will be paired, allowing them an interval of two weeks in which to engage in preliminary skirmishes before the formal battles. It was at first planned to run the bouts on Friday, March 13, but the interference of a class smoker was considered sufficient excuse to change the date.

The bouts will be fought in an atmosphere of intense rivalry and will be worth while witnessing. Bouts of this character, where nothing but laurels and metals are at stake, invariably produce an abundance of glove throwing and action. Caution and science are thrown to the winds for the reliable old slug fest which is so popular.

#### Seventeen Boxers Compete

All the students are urged to attend to cheer for the fighters, as this will lend impetus to more furious scrapping. The finals will be run a week after the prelims. It is not too late to enter as those who wish, may weigh in and draw next Friday.

The contestants are, light-weights: E. Cordes, Melcarek, T. Kelch, J. Bacci, W. Kosan, C. Zulkowski; welterweights: F. Koko, F. Hromada, C. Sommer, S. Cannell, T. Gault; middle-weights: W. Resag, D. White, M. Lukas and R. Nelson. The light-heavy-weight match will be decided between C. Jens and A. Hoffberg.

### Veteran Cager Elected Captain

Harvey C. Rossing, '32, was elected captain of the 1931-32 basketball team last Friday afternoon. He has won major letter awards for the past three years.

This year he led the teams scoring with 116 points, having made 46 baskets and 24 free throws. Last season he tied with Robin for second place honors with 69 points. During his freshman year, he placed fourth in scoring position with 60 points. In his three years of competition, he has made 113 baskets and 59 free throws.

John C. Owen will be the manager of next year's basketball team.

### Tech Tracksters to Meet Sears 'Y' Tonight

Armour's indoor track team will engage in their second dual meet of the 1931 season tonight when they meet Sears' Roebuck Y.M.C.A. at 7:30 p. m. in Bartlett Gymnasium.

Coach Stagg will give the men time trials in this meet to prepare them for the Illinois Relays next Saturday.

#### Armour Favored to Win

The team will compete in the following events: 50-yard dash, one mile run, 440-yard dash, 50-yard high hurdles, two mile run, 50-yard low hurdles, 880-yard run, shot put, pole vault, high jump, and 8 lap relay.

The Tech runners should easily defeat the "Y" squad because Captains Fox and James, A. H. Jens, Nelson and Hirsch, have consistently bettered their times in practice.

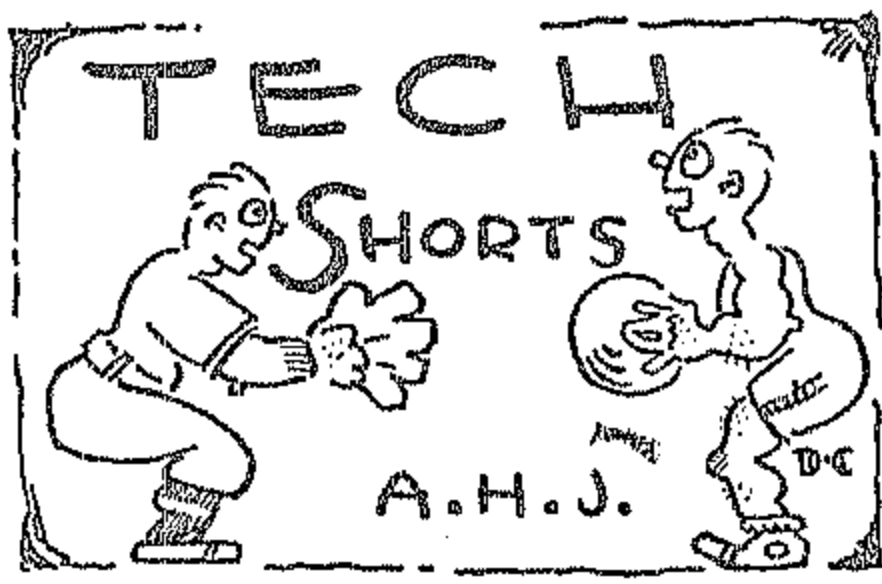
#### Team to Compete at Urbana

Several of the men will journey down to Champaign next Saturday to compete in the fourteenth annual University of Illinois relay carnival. Coach Stagg intends to enter teams in the college mile and two mile relay events. Captain H. L. Fox, Hirsch, Helmick and Nelson will probably each run in the mile relay.

Captain James, Nelson and Sade-man will compete on the two mile relay. The fourth man will be chosen from either Iverson, Podlilpec or Sorenson. A. H. Jens will be entered in the 75-yard dash. The men will make the journey in automobiles leaving Chicago Saturday morning.

#### Don Paul Placed Last Year

Don Paul, captain of last year's championship team, won a gold medal for second place in his specialty, the shot put. Bausch of Kansas, defeated him with a throw of 48 feet, 4 inches. Behr of Wisconsin and Weaver of Chicago were third and fourth respectively.



#### Where Is The Spring?

The thought at this time of the year is, when will the weather break to permit outdoor athletics. One cannot complain of the amount of weather we are enjoying. It is usually a constant value. The state of the weather, however, is the important item. Last year at about this time we had so much snow forced upon us that we were prevented from attending classes. Snow is usually appreciated at Tech for it tends to cover up some of the dirt and grime which covers the neighborhood of 33rd and Federal sts. Then there is the possibility of so much snow that we cannot attend classes, etc. All of which has little bearing on the Tech Shorts but simply gives us a chance to vent some of our inward thoughts and feelings.

#### One For The Books

Swimming, an interesting pastime for both contestants and spectators, has done some bigger and better splashing in the past few weeks. A relay team composed of Giovan, Carlstrom, Byanskas and Knox, each swimming 40 yards, has lowered the school mark twice in the past few weeks. The record was 1:23.4 seconds for 160 yards. The latest record is 1:20 seconds. Considering the time that these men practice together the time is especially good. Coordination and team work is essential in any race where the outcome depends on several people and not on one individual.

#### You Must Run All The Way

Relay racing is perhaps the most exciting of all events in track or swimming meets. Of course if the teams are not evenly matched the race does not create the excitement that a race of evenly matched

### LATE SPORTS

Bloomington "Y", Illinois state boxing champions, defeated Armour's boxers last Saturday, five matches to one, at Bloomington. Heckmiller, Tech's only victor, knocked out Robbins in the 157 pound class.

teams would. The starting man attempts to get the pole position so he can set the pace, he passes the baton to a team mate who attempts to hold any lead he may be given. The third man runs, then the fourth who must come in first at any cost. Usually the best man runs last, the second best first with the others in second and third position.

#### Paul Won Second Here In 1930

On Saturday a squad of trackmen will be sent to the Illinois Relay Carnival at Urbana. A one-mile and a two-mile relay team will probably compete in the college section of the meet. Some men will be entered in special events such as the 75 yard dash, 300 yard dash, high jump and shot put.

#### Strike Three

Shortly, the old time batting feud between "Chief" Stehno and "Chuck" Link will be resumed. Link has been getting some secret practice in lately so watch your step Ed.

#### No Sale

Modestly Armour's Athletes posed for pictures for the 1931 Cycle. Were they bashful? The birdie wouldn't even come out for a peek.

### Anticipate Huge Diamond Turnout

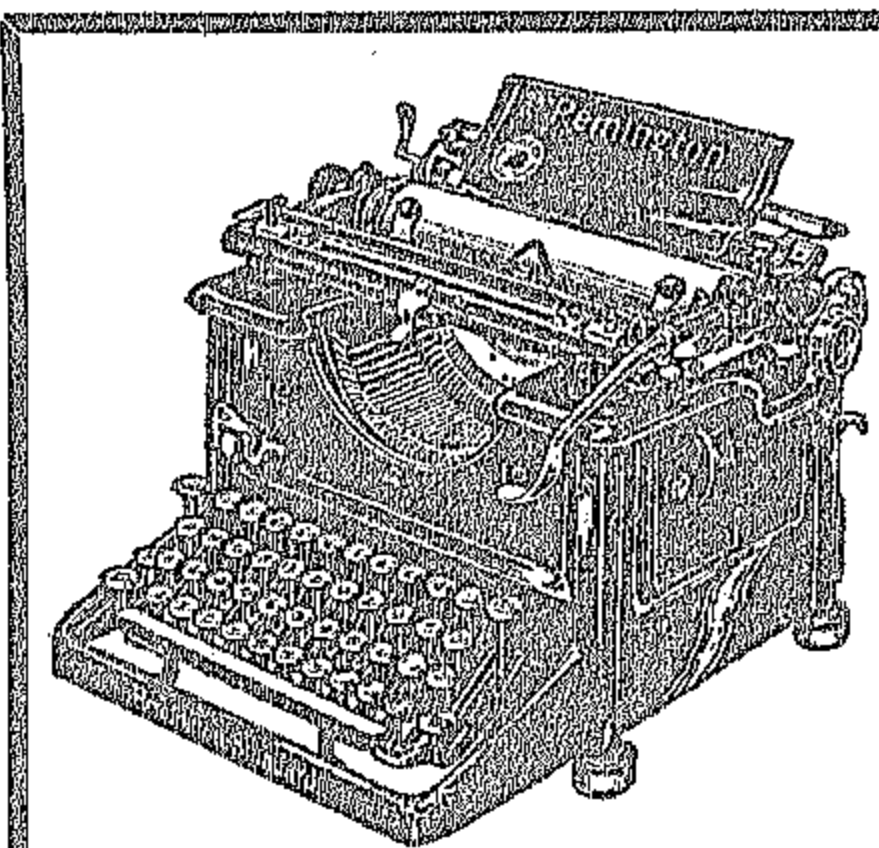
One of the largest turnouts of prospective candidates for Armour's 1931 baseball team is anticipated when Coach Krafft issues his call for outfielders and infielders next week.

Only four regulars of last year's invincible aggregation remain to grace Krafft's hopes for another successful season. The vacancies left by graduation and withdrawn students will have to be filled by newcomers, leaving the field open to anyone who possesses baseball proclivities.

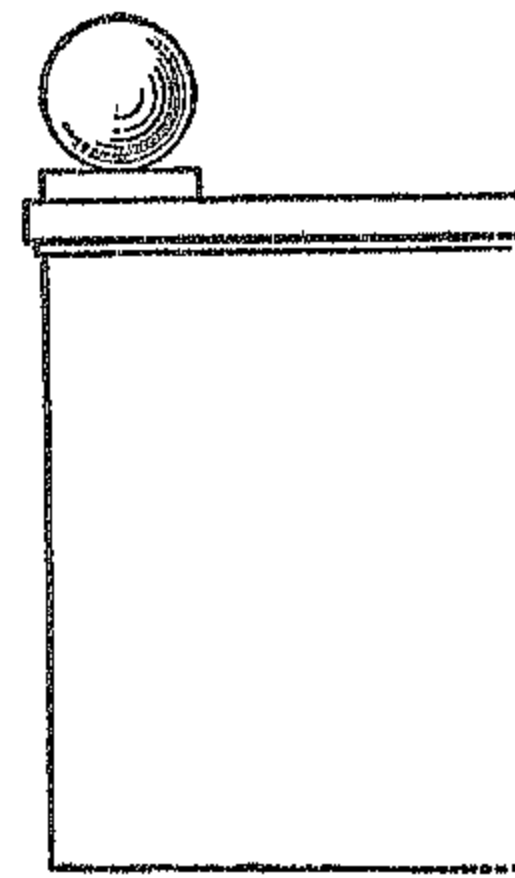
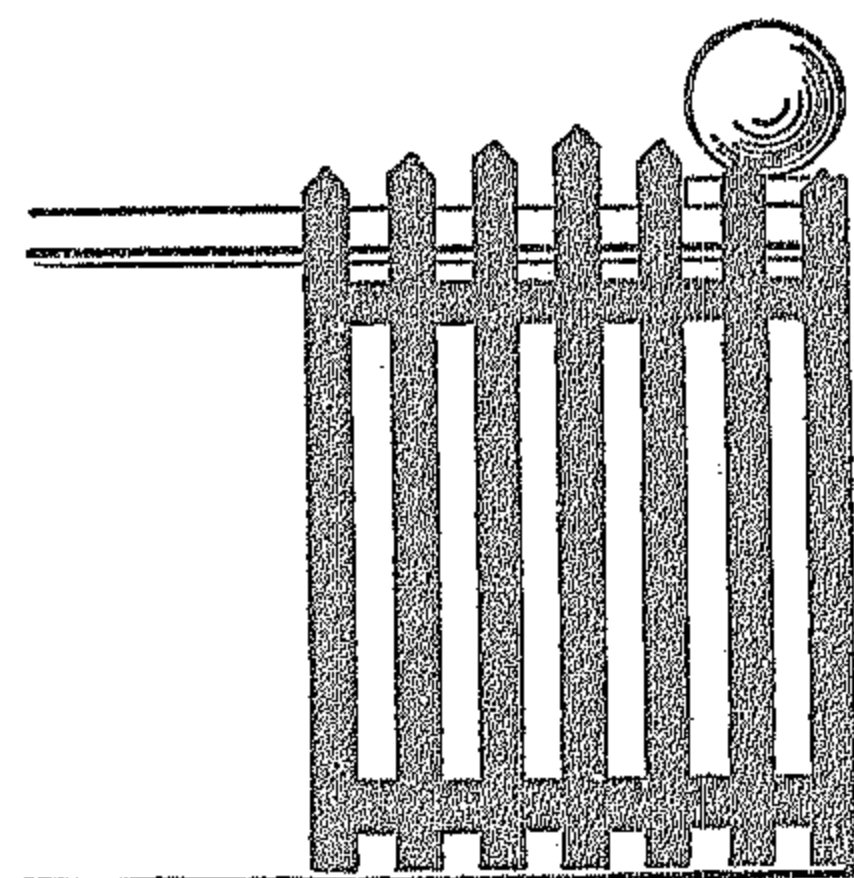
The turn of circumstances obviously presents an opportunity for a large number of players who would ordinarily have made no attempt to break into the baseball ranks if the new team was composed of a majority of regulars as the case has been in the last two years.

When the clarion is officially sounded, Coach Krafft looks forward to a large number of freshmen and sophomore responders. Each candidate will be given a fair tryout.

To date, Krafft has concentrated his efforts on developing the pitchers and catchers. All workouts have been made in the gymnasium in order that the men may develop their arms gradually and be fit for some strenuous workouts when practice sessions are moved to Ogden Field.



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Which is wider, the gate or the opening? Maybe your eyes fooled you that time.

# YOUR EYES MAY FOOL YOU BUT YOUR TASTE tells the Truth!



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