

SENIOR CHEMICALS MAKE INSPECTION OF STANDARD OIL

Last Monday, October 31, the senior chemical class made an inspection trip to the plant of the Standard Oil Company of Indiana. They saw the various processes used for the distillation of petroleum to get various products such as gasoline, naphtha, light and heavy oil, asphalt, and petroleum carbon.

They went through the pilot plant where the various processes developed in the research laboratories are tested out on a laboratory scale. The scale is then increased slightly during the testing and then finally the process is put into use on the large scale of actual production.

Enormous amounts of high pressure steam are used by the plant since all the distillation processes are carried out utilizing the heat furnished by the steam. The equipment supplying this steam is very flexible and can be run by burning powdered coal, gas, or oil.

Still of almost every description are used to distill the petroleum. Due to the fact that not enough gasoline can be obtained from the original products, it is necessary to "crack" some of the heavier portions. This cracking process is done under pressure and the resulting products are taken out and redistilled several times to get the desired composition. Thus a great variety of products result.

Scherger to Deliver Illustrated Lecture

Next Monday Dr. Scherger will present to his senior class in Great Leaders an illustrated lecture at 11:30 on "The British Isles." These pictures taken by Dr. Scherger will show the most interesting and picturesque scenes as well as the many historic places throughout England. This trip to the British Isles was his twelfth trip abroad.

All students having an open period on that hour are welcome to attend this lecture.

November 1st Dr. Scherger addressed the Kiwanis Club of Englewood. "Hitler, the German Fire-Brand" was the subject of his discourse. Quoting from the announcement issued by the club, relative to this lecture: "Dr. Scherger is a lecturer well worth going miles to hear. He is known throughout the country as an authority on international affairs."

MONROE VISITS SCHOOL

Mr. W. S. Monroe visited the Institute last Tuesday and was shown around by Dean Penn. Mr. Monroe is a member of the Board of Trustees.

Last Friday, D. I. Cooke, Ex. '33, visited the school.

ARX NEWS

Hello! We're back again after a week's vacation from the press. This past week has produced a great deal of exhibition about the Institute. With the opening of the Annual Fall show at the Art Institute, our own summer work displayed and last but not least the Senior Synagogue Projects . . . and what an exhibit that was.

Sandstedt and Terp took the medals.

The post-judgment criticism was delivered by Mr. Alfred Alschuler, the renowned architect. His critique was a most interesting and enlightening one.

More about the summer show hanging on the Armour walls. Some excellent water colors by W. Thurman Vaughn, Leroy Skubic, Spencer B. Cone, and Hanns Nelson. T. Dale Luckett brought back some impressions of "Ole Kentucky" in water colors and in pencil. Robert Chestham tried his hand at some oils . . . the results proving most gratifying as exhibited.

Among the post-graduate men in the school we have Clarence Troost who is from Notre Dame. Another South Bender is Day Feinberg of the Sophomore Class, who is very handy with the charcoal in Prof. Krehbiels class.

The word charette is spelled C-H-A-R-R-E-T-T-E and means a

New Books

Alexander, Grand Duke of Russia
Once a Grand Duke

Bagenal & Wood
Planning for good acoustics

Duncan & Drew
Radio telegraphy and telephony

B. F. Fletcher
History of Architecture

Hughes & DuBridge
Photoelectric phenomena

Richmond & Littlejohn
Technique of water color painting

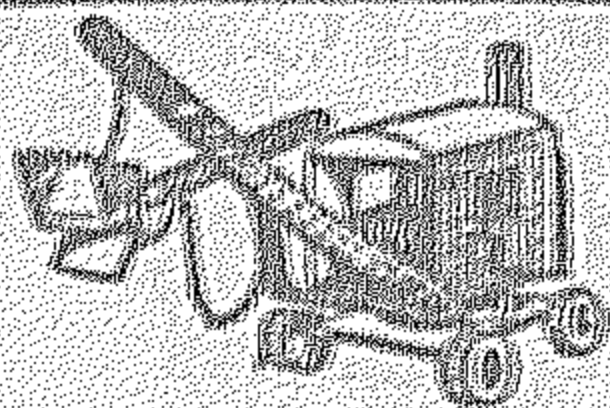
R. W. Sexton
American public buildings of today

Van Brunt & Rice
Rewinding data for d.c. armatures

A. J. Wallis-Taylor
Industrial refrigeration

C. R. Young
Structural problems in steel and timber

THE STEAM SHOVEL



At last the nickname of the New's business manager has been discarded. Louisa, of the Albee Restaurant, calls RAY NELSON "Blondie."

When bigger and better diesel engines are made, DANNY ROUSSEL will make them. He described one of these machines by saying that if whipping cream were used for fuel, cottage cheese would come out of the exhaust pipe.

ROY H. WITTEKINDT undoubtedly, makes it a habit to permit the elevated train until he reaches a Normal road to his labing, for sometimes he forgets to get off at 33rd making him late for his 4:30 physics class.

Blue Monday certainly is living up to its name. For the last seven consecutive Mondays, we have had rain.

EDWARD O. MEACHAM says that at night he's too tired to crawl up onto his bed, so he sleeps under it instead.

The Chicago Daily News announced last week that there would be blues singers in with the Armour broadcast. We wonder if they will sing before, after, or with the professors.

On a recent summer vacation trip to the Standard Oil Company of Indiana, AL. ELLIOTT was positive that he knew the way. They terminated at the Standard Oil Company, four miles from their destination.

Contributions to the STEAM SHOVEL may be made by placing articles in the News box in the main building. All contributions must be signed. Real names preferred.

Perhaps, if the bells were rung a slightly longer time, the students could use the slight gap of silence to inform them of the end and beginning of periods.

The class in organic chemistry will hereafter be total abstinence from alcohol if Professor Freud's lectures on the subject make the desired impression.

One of our prominent seniors inquired of the librarian if Kirchhoff's laws could be used as a business law reference.

wagon or cart in the French. The story goes, that in the Beaux Art School of Paris, the problems are delivered to the jury from the digger atteliers in the small carts. Therefore this hustle-bustle has been handed down to us and called the above during the last hours of the project.

If any one has wondered how high above the Blvd. Mich. the Armour class rooms are, we will put that mind at rest now. The Bulletin boards are exactly 104 risers above sidewalk level, (count them if you don't believe it).

Electrical Head Gives Two Talks

(Continued from page 1)

such famous scientists as Ampere, Ohm, Faraday, and Davy.

His talk Sunday evening concerned "the more recent progress in things electrical." In illustrating this progress he took first as an example the central station electrical light and power industry. He said, "The first central station was started just fifty years ago. At the end of twenty-four years this industry had grown to about four million horsepower of installed capacity representing an investment of over one and one-third billions of dollars. Remarkable as this development was, compare it with the last twenty-five years. We now have forty million horsepower in central stations and an investment of over eleven billions of dollars."

Besides discussing the central station industry, he also sketched the rapid growth of the electric lighting industry, the electric transportation industry and the electric communication industries such as the telegraph, telephone, and radio.

During the past week, Professor Harry McCormick, head of the Chemical Engineering department was the speaker on this hour over WJJD. A resume of his two lectures will be given in the next issue of the News.

Fraternity Notes

PHI KAPPA SIGMA

Quite a few of the Phi Kaps from Purdue, who were in Chicago for the Chicago-Purdue game, stayed at the house over the week end. Claude Crose, an alumnus from Purdue, who is living at the house, had an enjoyable reunion with some former classmates.

We all went down to the dance at the University of Chicago Chapter house Saturday night. It was a good dance and we all had a good time.

TRIANGLE

Brother Fetterman, '31, and Brother Lind, '32, are now residing at the house. Fetterman is back again after spending the last year between New York City and Omaha, Nebraska.

The monthly Alumni Board meeting was held at the house last Monday evening.

Our Annual Alumni Reunion will be at the chapter house, Nov. 12. Dinner will be served at 6 o'clock and a record attendance is anticipated.

DELTA TAU DELTA

The first meeting of the Mothers' Club of Gamma Delta will be held on Sunday, November 13. This ten marks the opening of the Mothers' Club for this year and we are looking forward to one of its most successful seasons.

THETA XI

A large crowd attended the Annual Halloween Party which took place at the chapter house last Saturday evening. Many from the Purdue and Northwestern chapters as well as alumni attended. A very enjoyable time was had by all who attended judging from the comments received. The house was decorated, as befits the occasion, with pumpkins and corn-stalks.

SIGMA KAPPA DELTA

At the Halloween party held at the house last Saturday night, a large number of alumnus were present and a good time was had by all.

The house ping-pong tournament has reached the quarter finals. G. M. Rod and B. Larson seem to be the only possible contenders to reach this stage of the game successfully.

RHO DELTA RHO

Rho Delta Rho takes pleasure in announcing the pledging of Milton Cohn, Arch, '35.

Plans for our first dance have been completed and it will be held at the Chapter house this Saturday evening. This party is given in honor of the pledges and will open up social activities for the year.

KAPPA DELTA EPSILON

The Annual Halloween Party was held Saturday, October 29. The affair was unusually well attended and a pleasant evening was enjoyed by everyone.

Next Saturday, Nov. 12, a bridge

FIVE SOPHOMORES CHOSEN TO HELP SOCIAL CHAIRMAN

John J. Ahern, social chairman of the sophomore class, announced the following men as members of the committee: Wm. B. Ahern, E. E.; R. J. Albano, E. E.; E. R. Penske, Arch.; G. W. Wheaton, P. E.; R. H. Wittekindt, Ch. E.

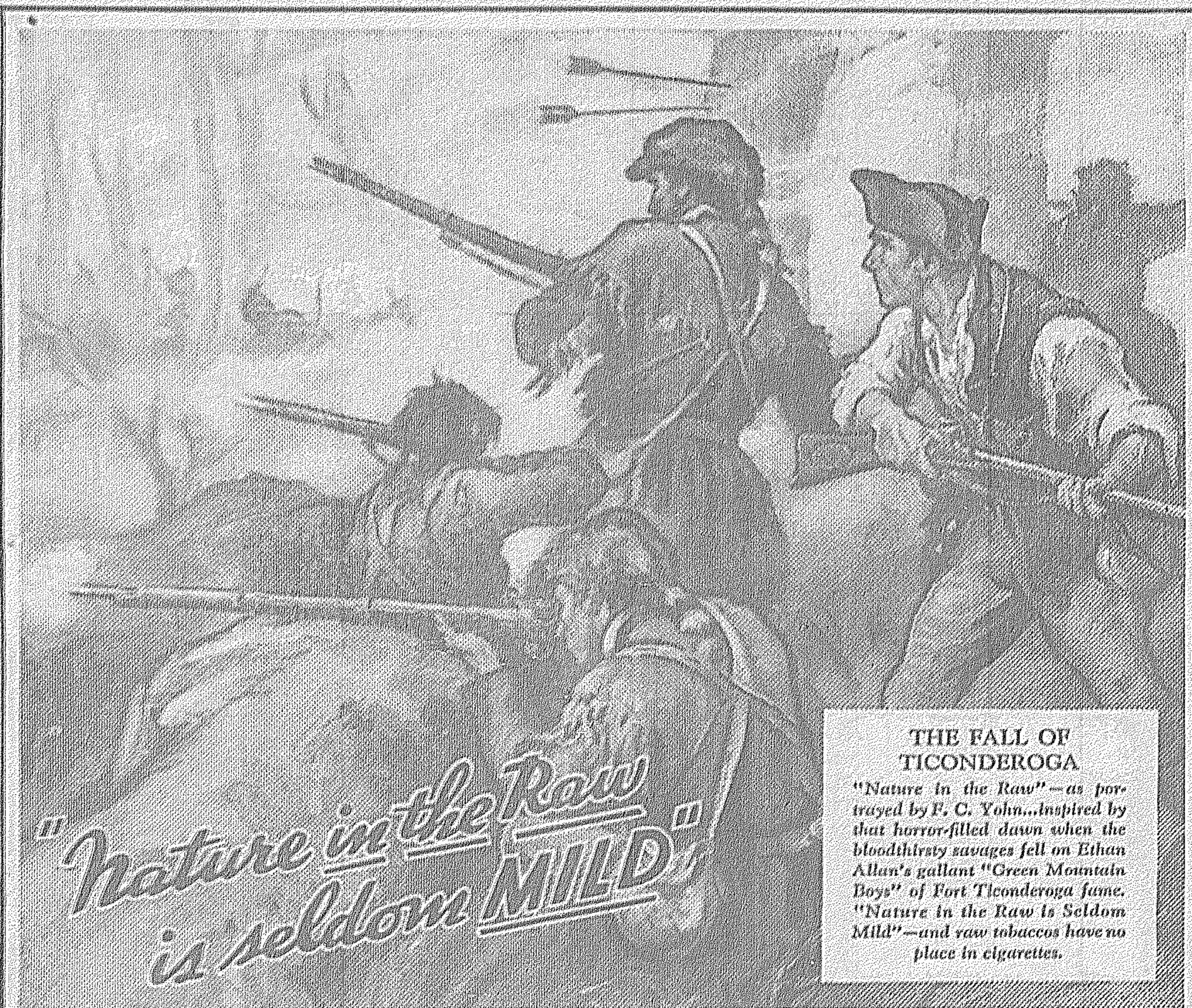
There will be a meeting of the social committee in the near future to determine just what will be done to make the year the greatest social success which any sophomore class has ever enjoyed.

The combination again this year of the sophomore and freshman dances will come in for consideration. Last year the combination resulted in a very successful affair, financially as well as socially. The probability is therefore that the procedure will be followed again this year.

party will be held. The arrangements are being taken care of by Brother Milt Hoffman and he promises us a few surprises.

William Holland, Ch. E. '34, is working for his M. A. at Armour on a scholarship.

Edmund Field, Ch. E. '34, is doing post-graduate work on a fellowship at Northwestern University. He recently won the second prize in a contest sponsored by the American Institute of Chemical Engineers for general excellence in chemical engineering.



"Nature in the Raw is seldom MILD"

THE FALL OF TICONDEROGA

"Nature in the Raw"—as portrayed by F. C. Yohn...inspired by that horror-filled dawn when the bloodthirsty savages fell on Ethan Allen's gallant "Green Mountain Boys" of Fort Ticonderoga fame. "Nature in the Raw is Seldom Mild"—and raw tobaccos have no place in cigarettes.

No raw tobaccos in Luckies —that's why they're so mild



WE buy the finest, the very finest tobaccos in all the world—but that does not explain why folks everywhere regard Lucky Strike as the mildest cigarette. The fact is, we never overlook the truth that "Nature in the Raw is Seldom Mild"—so these fine tobaccos, after proper

aging and mellowing, are then given the benefit of that Lucky Strike purifying process, described by the words—"It's toasted". That's why folks in every city, town and hamlet say that Luckies are such mild cigarettes.

"It's toasted"
That package of mild Luckies