



WORK ON SENIOR SECTION OF 1930 ARMOUR YR. BOOK

Must Submit Activities Blanks by Friday

MORE SOPHS WANTED

Under the direction of P. E. Heath, Editor-in-chief, the Departmental editors of the 1930 Cycle have started their respective work.

Faculty and senior sections of the book are to be made up as soon as it is possible to assemble this material. Seniors who have not secured biography blanks should do so during the week. These blanks may be received from P. E. Heath or A. H. Jeus, Associate Editor, who is in charge of this section of the book. These must be filled out and turned in by Friday of this week.

Fraternities both social and honorary should be ready to furnish complete information concerning memberships, and social programs to the Cycle staff. These will be assembled before the Christmas vacation.

No definite plans for the theme of the book have been announced. At the present the routine work of the Cycle is taking the attention of staff members.

Sophomores who desire to work as assistants should apply to the editor on the book of a completed program card. Several men who can operate typewriters are especially needed.

The Cycle staff is as follows:

- Editor-in-chief— P. E. Heath, F.P.E., '30
- Associate Editor— A. H. Jeus, F.P.E., '31
- Fraternity Editor— R. A. Timmermans, F.P.E., '31
- Photography Editor— O. R. Murphy, E.E., '31
- Organization Editor— H. A. Bailey, Ch.E., '31
- Athletic Editor— R. H. Kutteruf, F.P.E., '31
- Social Editor— R. R. Eddy, F.P.E., '31

Commonwealth Edison Official Addresses A. I. E. E. Meeting

Alex D. Bailey, Supt. of Generating Stations of the Commonwealth Edison Co., was the speaker obtained by the A. I. E. E. for their meeting of Thursday, Nov. 15, held in Science Hall at 10:30. His topic was the "Fundamental Unit of the Utility Business." He explained that this fundamental unit is the dollar and is very important.

Large utility companies have got to know how soon every dollar invested will make its return plus profits. This knowledge is important because of the overwhelming amount of money invested in equipment. To get the maximum out of every invested dollar the load on the generating stations must be diverse, that is the load must be as evenly distributed over the day as possible.

Service, which the customer expects, was defined by Mr. Bailey, as being continuous, uniform voltage and frequency. To obtain this a reserve must be maintained which must be taken into the economics of the utilities.

In closing, Mr. Bailey gave some economic disadvantages of water power as a source of energy for producing electricity. Two of these were the varying amount of water during the year and the inaccessibility of the position of the water supply. Although he made mention of these economic disadvantages Mr. Bailey is heartily in favor of the development of hydroelectric plants.

Array of Noted Educators Present at Inauguration of U. C. President

DR. RAYMOND ATTENDS TODAY'S CEREMONIES

Doctor Howard M. Raymond will attend the inauguration of Robert Maynard Hutchins as president of the University of Chicago today at the University. The program starts at 10:15 with an Assembly of Faculties and Delegates in academic dress at the Ida Noyes Hall. The procession will start at 10:45, followed by the formal inauguration ceremony at 11:00 in the University

Chapel. Harold H. Swift, president of the Board of Trustees will preside. The speakers will be James R. Angell, president of Yale University, David Kinley, president of the University of Illinois, Walter Dill Scott, president of Northwestern University, and the new president, Robert M. Hutchins.

A luncheon to the delegates and special guests will be given in Hutchinson Hall at 1:30. Guests will be in civilian dress. Frederic Woodward, vice-president of the University of Chicago, will preside and the speakers will be Harry W. Chase, president of the University of North Carolina, Ray Lyman Wilbur, Secretary of the Interior and president of Stanford University, Gordon J. Laing, dean of the Graduate School of Arts and Literature, University of Chicago, and the new president, Robert M. Hutchins.

A dinner to citizens and special guests will be held in the Grand Ballroom of the Palmer House tonight at 7:00 p. m. Full evening dress will be worn. Harold Swift will be toastmaster, while the speakers will be Charles H. Hamill, George E. Vincent, president of the Rockefeller Foundation and also Dr. Hutchins.

An especially interesting feature of the ceremonies will be at the assembly in the morning when the delegates of the colleges and universities will form in line in the order of the foundation of their institutions. The academic dress worn at the inauguration ceremony will consist of the usual caps and gowns.

Chemical Honorary Announces Pledges

Phi Lambda Upsilon, national honorary Chemical Engineering fraternity, has at last made its choice. The list of pledges is composed of:

- Fred Attwood, '31.
- Isadore Drell, '31.
- Homer Martin, '31.

Honor A Dinner on December 10

Vernon A. Sturm, president of the Armour Honor "A" Society, has announced that the Honor "A" Society will hold its third semi-annual Alumni dinner on December 10.

This affair is promoted for the purpose of bringing about a reunion of the 160 Honor "A" members who were themselves active participants in Armour's sports during their undergraduate years.

The dinner will be held immediately following the Armour-Alumni basketball game. The place of meeting, however, has not yet been decided upon.

Short talks, old Armour yells, and mutual handshakes will predominate. At least 50 members are expected to be present.

There will be a very important meeting of the Honor "A" Society today at 1:10 p. m. in Room C, Main Building. It is imperative that all members be present.

CALENDAR

- Wednesday, Nov. 20
Engineer distributed.
F. P. E. S. meeting.
Freshman Basketball Practice in Gym.
- Thursday, Nov. 21
Sophomore Basketball Practice in Gym.
- Friday, Nov. 22
All Senior Biographies to be turned in to P. E. Heath.
A. C. S. Meeting.

DEAN'S OFFICE NOTES

"Flunk" notices will be issued December 2, 1929. All Instructors must have them turned into the Deans' Office by November 22.

All articles found about school should be turned in to the Deans' Office, as this constitutes the Lost and Found department. No articles should be kept, or turned over to any other person or persons.

COMMITTEES GIVE REPORTS AT SENIOR CLASS GATHERING

Ransel Announces Five Hundred Dollars in Treasury

DISCUSS SENIOR JACKET

The first meeting after the election of Senior Class officers was called to order by Bob Serson, the class president, in the Assembly Hall, last Friday morning.

The purpose for calling the meeting was to hear the reports of the newly appointed committees.

Bob Serson expressed his gratitude for being elected to presidency. He called on R. E. Johnston, chairman of the Auxiliary Committee, who presented his suggestions about what the new senior jackets should be like, after the class expressed their desire of having them. New suggestions were offered from the floor, which the committee would consider in making their preliminary selection.

The chairman of the Jewelry Committee, V. A. Sturm, reported that the rings which will be selected will not have the school seal, but the letters A. I. T., because the school is known better by the initials than the seal. According to last year's statistics, there will be about as many keys as there will be rings.

Jack Hurley, chairman of the Announcement Committee, stated that the selection of the style of announcements was already decided upon.

The Photography Committee, under P. E. Heath, issued biography blanks, which the seniors were requested to turn in by Friday.

Ray Shoon, chairman of the Dance Committee, asked for the co-operation of the class in making it a successful affair.

The report of R. E. Ransel, class treasurer, was received with applause. He stated that the class treasury had about five hundred dollars.

The uncertainty, which exists about the senior class banquet this year, was not verified definitely. A mere mention was made about the banquet, but no discussion or action followed.

A. C. S. Meeting Friday, Nov. 22

Professor Alexander Silverman, head of the Department of Chemistry at the University of Pittsburgh, will speak Friday, November 22, at the regular meeting of the American Chemical Society on "Recent Developments in Glass Manufacture." The meeting, which is to be held at the City Club, will start at 7:30 P. M.

Haggard, Math. Prof. Boasts of New Son

Mr. and Mrs. Harold W. Haggard are the proud parents of a son born October 26, 1929. Mr. Haggard has been an instructor in the Mathematics Department for several years.

WADDY WADSWORTH TO PRODUCE RYTHM FOR SENIOR DANCE IN RED LACQUER ROOM OF PALMER HOUSE, DECEMBER 6

Will be First Social Function Sponsored This Season

ANNOUNCE SELECTION OF CHAPERONES



RAY SHOAN

The Senior Social Committee is now tapping every available source of publicity, exerting every possible bit of personal contact to sell the tickets to the Senior Dance before the Thanksgiving holidays of next week. According to Ray Shoon, chairman, advance sales predict that a record breaking crowd will show up for the last dance to be given by the Class of '30. Posters have been printed and distributed throughout the school, so that everyone will be made aware of the event.

Doctor and Mrs. Howard M. Raymond, Dean and Mrs. Claude I. Palmer, Professor and Mrs. Arthur H. Carpenter, and Professor and Mrs. Henry T. Heald, will act as chaperones.

The dance is to be staged in the Red Lacquer Room of the Palmer House, December 6, at 9:00 p. m. "Waddy" Wadsworth and his orchestra will furnish the music. Long a favorite in collegiate circles, this organization promises to furnish a red hot line of syncopation for the evening. Bids are priced at \$2.50.

Pledges Picked by Tau Beta Pi

Tau Beta Pi, honorary national engineering fraternity, has announced its pledges, following the second of two smokers. The new pledges are:

- W. N. Alderman, Arch., '30.
- F. A. Attwood, Ch. E., '31.
- G. W. Baker, E. E., '30.
- E. Blomme, C. E., '30.
- N. D. Buehling, E. E., '30.
- C. T. Link, M. E., '31.
- H. W. Mullins, F. P. E., '30.
- W. R. Trognitz, M. E., '30.
- C. F. Vojtech, M. E., '30.

"Chems" See Water Treatment Plant

Last Friday, the Junior Chemicals traveled out to Hinsdale to inspect one of the most efficient plants in the Middle West for the treatment of municipal water supply. The men, accompanied by Professor Bentley, were taken through the plant and given detailed explanations en route.

The water is pumped from a deep well, and is then treated to remove suspended material and hardness which all well water have to a greater or lesser degree. The essential features of the treatment are the addition of sodium aluminate and the subsequent filtering which gives a water of the highest quality.

Professor Freud Completes Paper

Professor B. B. Freud, of the Chemical Engineering Department has just completed the fourth of a series of papers he has prepared on the measurement of surface tension. He is to publish it soon.

Professor Freud's work has correlated all previous work done on this subject at the University of Chicago under Dr. Harkins. Dr. Freud was recently complimented by Dr. Harkins on his work, saying that it was the best piece of theory that has been developed in recent years.

Professor Gill Stays at Home With Grippe

Professor Gill was out of school all last week with a bad attack of the grippe. The doctor ordered him to stay indoors for a week so as to allow his throat to heal.

The faculty and students hope that Professor Gill will be with us this week in perfect health.

Tells Students' Part in A. I. Ch. E.

Dr. L. M. Volman, student advisor for the American Institute of Chemical Engineers, spoke at the meeting of the Armour chapter held last Wednesday afternoon. He presented a very interesting talk on "Student Chapters of the A. I. Ch. E.," and complimented Armour on the success of her organization.

A general discussion was then held on the relationship of student chapters to the main organization.

Practically all of the students in the Chemical Engineering Department of the sophomore, junior and senior classes turned out to attend this meeting.

Scherger Addresses Russian Students

Dr. Scherger spoke on "Impressions of Europe" at the meeting of the Russian Students Association held last Saturday at 5745 Harper Avenue. Dr. Scherger's address consisted of personal experiences and anecdotes gathered during his last trip to the Continent.

The Russian Students Association draws its membership from students of Russian birth or parentage attending the University of Chicago, Lewis Institute, Northwestern University, Crane College, and Armour. Alexis Sokoloff, E. E., '32, is president.

Engineer Ed. Fails to Recover Quickly

N. D. Buehling, '30 E.E., editor of the Engineer, has been confined to his home for the last two weeks with an infection in his foot. Last week he attempted to return to school, but found that complications had set in, which may cause him to be confined for a time at the German Deaconess Hospital.

It is very fortunate that Buehling had practically completed all work on the forthcoming issue of the Engineer, before being taken ill. Only a few articles remained, and it is expected that it will be issued on the scheduled date.

Armour Tech News

Student Publication of the
ARMOUR INSTITUTE OF TECHNOLOGY
CHICAGO, ILLINOIS

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HONOR MEN

Each year, the Board of Control of the Armour Tech Athletic Association selects, according to its best judgment, the ten most outstanding men in the Senior Class. These men are taken from a group of twenty who have the highest rating in both activities and scholarship. In recognition of the honor, and of the work done for the school, each of these men receives a special copy of the Cycle, annual publication, with his name on the cover. The purpose of the award is to encourage other men to participate in school activities, and at the same time to achieve better scholastic standing. By pointing out these ten men to the school, the A. T. A. A. believes that it will spur others to similar achievements.

However, the selection does not come until almost the end of the second semester. The honored ones receive a brief notice in the News, an announcement in an Assembly, and then are forgotten because of the rush of the Junior Week following, and final examinations. They have their picture in the Cycle, but this publication is not distributed until just before the end of the semester. In other words, the recognition comes just about the time the men leave; and after they are out of school, the honor is an empty one.

Why not make these rewards at the end of the first semester of the Senior year? Surely a fair selection could be made without waiting an extra three and a half months. Then the students would have time to see these men. Besides giving a special copy of the annual publication, present each man with an individual medal, appropriate to the occasion. Surely that is a small enough reward.

"Let any one who is conversant in the variety of human life reflect upon it, and he will find the man who wants mercy has a taste of no enjoyment of any kind. There is a natural disrelish of everything which is good in his very nature, and he is born an enemy to the world. He is ever extremely partial to himself in all his actions, and has no sense of iniquity but from the punishment which shall attend it. The law of the land is his gospel, and all his cases of conscience are determined by his attorney."
—Sir Richard Steele

"Invention, strictly speaking, is little more than a new combination of those images which have been previously gathered and deposited in the memory. Nothing can be made of nothing; he who has laid up no materials can produce no combinations."
—Sir Joshua Reynolds

"Opinion is a light, vain, crude and imperfect thing, settled in the imagination, but never arriving at the understanding, there to obtain the tincture of reason."
—Ben Johnson

THE SLIPSTICK

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

RECOLLECTIONS

He rose and gave her his seat;
He could not let her stand—
It brought back painful memories
That strap she held in her hand.
S. A. M.

A word to the wife isn't sufficient.

Fare—"I am sorry, old man, but I'm broke; you can't get blood from a turnip, you know."
Taxi Driver (rolling up his sleeves)—"Yea, feller, but you are not a turnip."

What These Boys Won't Do

There is one bright chap who wears black glasses on dates so he won't have to be worried about turning out the lights.
Chester.

Capital punishment should be abolished; it's too dangerous.

"Would you mind getting up for a moment, please, Ma'am?"
"And why, pray?" she asked with dignity.
"So's I can put this 'Wet Paint' notice on the seat."

Here's Another One

Stude: "Well, Professor, I see you have a new car."
Prof: "Yes, I couldn't remember where I parked the last one." Walt.

One-Eyed Conolley may be a champion gate crasher, but think how much better he could do with a college education.

Two men went fishing. One of them for the first time; the other was an ardent seeker of the finny species. The new man kept asking silly questions.

"What will I do now?" he asked, after he had wound his trout in until it was near the end of the rod.
"Oh climb up on the rod and stab the beast."
C. G.

He who laughs last is undoubtedly thinking of the one he is going to tell.

Joe—"I have a cold or something in my head."
Dick—"A cold probably."
F. E. S.

'Twas Ever Thus in Freshman Drawing

First—"Aren't you one of those fellows that drop their tools and beat it as soon as the whistle blows?"
Last—"Not me! After I put my tools away, I usually wait around five minutes for the whistle."

Can you imagine an Armour Tech FOOTBALL TEAM traveling to Atlanta to trounce Georgia, or upsetting Notre Dame at Soldier's Field, before 100,000 people? Can you? And see the Armour Band of 100 pieces with a leader parade on the field between the halves? Can you? If you are able to visualize this, sign up now for a course of problems in the fourth dimension, to be given Sunday morning in Science Hall.

Chester—the Sinik

Women, if they were less vain would be more like men; that is, if they were conceited enough.
Chester

Sweet Young Thing: "Why are you running that steam roller over that field?"
Farmer: "I'm going to raise mashed potatoes this year."

If a man bites a dog, it's news; but that's a silly way for one to get his name in the paper.
R. S. F.

If it weren't for having to convert poundals to B.T.U. per cubic centimeter, or watts per gallon to horsepower, or lumens per cubic inch to dynes, this course in Physics would be a snap—providing, of course, it was easier.

Auto-intoxication does not come from drinking in taxi-cabs.
C. G.

"Say, Bill, define a worm."
"I can't. What is it?"
"Well, Bill, a worm is a caterpillar that played strip poker and lost."
Walt.

"Is he a good driver?"
"Well, when the road turns the same time he does, it's just a coincidence."
B. G.

The collegiate way of saying "don't count your chickens before they're hatched" goes like this—"Refrain from calculating upon the quantity of juvenile poultry prior to the completion of the entire process of incubation."

Guest: "Here, take my valise! Are you a careful porter?"
Porter: "Deed Ah is, sah! Ah ain't never broke a bottle yit!"

Listen here, can't you play honest? Those aren't the cards I dealt you.

A Young lady was being interviewed.
"Do co-eds kiss?" the reporter asked.
"You'd be surprised," she remarked coyly, "how much goes on right under my nose."

Because of lack of time and other things, there will be no last line in this week's SLIPSTICK.
K. K.



Professor Charles Wilbur Leigh

(A Biographical Sketch)

BY P. EMIL SEIDELMAN

Charles W. Leigh, Professor of Analytic Mechanics, was born near Peoria, Illinois, on December 4, 1874. He received his grammar school training in the country school of that district. In 1891 he entered the preparatory school at the University of Illinois, from which institution he received his B. S. degree in 1897. While at college he majored in mathematics, and minored in astronomy and mechanics.

After graduation, Professor Leigh took charge of the department of mathematics at Fort Worth University, where he remained three years. While at this school he also acted as coach of the football team, in which sport he took part while at college.

Professor Leigh spent his next

two years doing graduate work at the University of Chicago.

On January 1, 1901, he came to the Institute as an Instructor in Mathematics. His title became that of Assistant in 1905, and in 1909 he became an Associate Professor of Mathematics.

In 1917 Professor Leigh transferred to the Mechanics department. He is now Professor of Analytic Mechanics, this title having been conferred upon him last spring.

On January 1, 1903, he married Theresa Faulkner. They have one son, John Richard, who has attended the University of Wisconsin Law School.

Professor Leigh is coach of the Armour golf team, faculty advisor of the Musical Club, and a member of the Board of Athletic Control. He has been on the latter board for the past 26 years. He is a member of Phi Gamma Delta, Tau Beta Pi, Sigma Kappa Delta fraternities, and an honorary member of Pi Nu Epsilon.

Professor Leigh is the author of a book entitled "Practical Mechanics and Strength of Materials," the revised edition, by Leigh and Mangold is to be published on Jan. 1st. Another book, "Trigonometry," was published in 1914, by Professors Leigh and Palmer.

He is a member of the University Club of Chicago, and Musical Director at the Englewood Methodist Church, which position he has filled for the past fifteen years.

Several years back golf tournaments were held between the students and faculty. To be the victor of several of these has always been Professor Leigh's ambition, however, some over-energetic student always took the final and denied him this realization. Now, although he still plays a good game, the wedding of forces and moments at the Institute offer him as much pleasure, as do golf clubs on the green.

Letter Box

To be accepted, all communications must be signed with writer's full name. This name will be withheld upon request.

To the Letter Box:

The recent agitation for a football team at Armour has brought out the fact that a great number of fellows would like to go out for the team. It seems that at the present time a full-fledged football team is not possible at Armour, but why can't an inter-class touchball tournament be conducted?

At the Universities of Wisconsin and Northwestern inter-class and inter-fraternity touch ball contests are held, and great interest is shown by the student bodies. With efficient coaching, tricky plays can be developed which would put Rockne to shame.

I am certain that if a call for men for inter-class touch ball teams were made, the turnout would be greater than for any of our other intra-mural sports.
C. E. R.

Peanut rolling, penny pushing, toothpick rowing, in fact all these little "games" which make freshmen realize their insignificance have been entirely abolished here by the Sophomore Cap and Rules committee. To appease the anti-abolitionists of this movement the freshmen will be required to wear black ties and cunning black longshoremen's caps adorned only with white buttons. A low mumble comes from a crowd of these "antis" to the effect that we'll all be sissies pretty soon; might as well give up and put on Buster Brown collars and pink bows.—Columbia U.

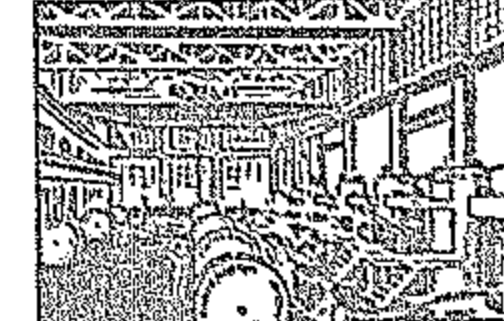
Warning!—Do not chew your fingernails. Remember Venus de Milo.



TESTING THE MATERIAL

MAKING THE CABLE

CONSTRUCTING THE LINE



Winning the war against weather

In the telephone business, research man, manufacturing engineer and construction supervisor are carrying on a successful war against the unruly elements, enemies to service.

Cable, for example, housing many circuits and covered with protective coatings

of proved strength, withstands storms which might seriously threaten open wire lines.

Thus in the Bell System growth is intensive as well as extensive, improving present facilities as well as adding new ones. And there is no end to all this development.

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"OUR PIONEERING WORK HAS JUST BEGUN"

MAKING OF COKE OBJECT OF VISIT BY SENIOR CHEMS

Gas By-Products Mixed to Conform With Regulations

KOPPERS PLANT CLEAN

Last Tuesday, November 12th, the Senior Chemicals made an inspection trip to the Koppers Coke Company at 3500 S. Crawford Avenue. The sixteen students and Professor Bentley were divided into two groups each with a guide furnished by the company.

One of the interesting problems that confront the company is the mixing of gas, their main product. Under the rules of the Interstate Commerce Commission fuel gas must furnish 535 b.t.u. The coal gas made during the cooking process furnishes but 510 b.t.u. It must be enriched by water gas, a 570 b.t.u. gas, and oil.

Of all the coke produced by the 105 coke ovens 70% is used to make water gas to mix with the coal gas. About 25% of the coke is sold and the remaining 5% of the coke is used to make a low b.t.u. gas that in turn is used to change the raw coal to coke.

The Kopper's plant is one of the cleanest that has been visited by the Chemicals. It is laid out very well with its half-mile of cooling pipes in a minimum of space. This company furnishes one-third of the 70,000,000 cubic feet of gas used by Chicago daily.

Time Saving Devices Installed by Griffin

Mr. Griffin, who is in charge of the Chemical Storeroom, has instituted several improvements about the different chemical laboratories.

Using his own initiative he installed the devices, which are saving time and patience for all who use the labs.

The new system of card filing has been the greatest time saver. Formerly a student might forget his storeroom file number and there would be no way of finding it. Now the storeroom numbers correspond to the locker numbers. If a student forgets his locker number he can always find it on his key.

Mr. Griffin has equipped the labs with cork borers and coat racks. Also there are boards with different sized corks in all the labs. By slipping a flask over a cork, a student can find the size and then get the cork from the storeroom in a minimum of time.

NEW AERONAUTICS COURSE CONDUCTED AT WISCONSIN

A correspondence course in aeronautical design, construction, operation, and maintenance has recently been offered by the University of Wisconsin. The course is intended for those preparing for aviation or aeronautical design. Anyone with two or three years of high school work can study the course profitably, according to Prof. W. H. Light, director of extension teaching.

Japanese women in Tokyo are beginning a campaign to obtain equal education facilities with the men. Many Japanese universities admit women into their classes as visitors, but they are not regarded as students, and get no credit or degrees. They are demanding co-education until women universities become large enough to take care of all those who wish to attend.

Freshmen intelligence tests in Michigan State showed a 16-year-old girl, and a 16-year-old boy to have the best score of the entire class. It was also found that men are inclined to make both more high scores and more low ones, while the women stick fairly consistently to medium scores.

In order to comply with a condition of a will which bequeathed \$5,000,000 to the University of Vermont, the University has restricted its enrollment to 1,000 students, all of whom must be residents of Vermont.

REVIEWS

NOCTURNE
FRANK SWINNERTON
Grosset & Dunlap

A nocturne, to an artist, merely identifies the scene as a night view; the term is easily applicable to this book by Frank Swinnerton bearing that name, for the entire book covers but the activities of a single night.

"Nocturne" is, if analyzed, nothing more than a glorified character study. The plot structure, while it does exist, is merely present to present the varying phases of the one night in the lives of two dissimilar sisters. It is only a vehicle to carry out the author's intense presentation of the thoughts, desires, and emotions of these two natures; one a rather buoyant, semi-romantic, and egotistic person, and the other timid, servile, and culturally starved.

Impressionistic art is most conveniently adopted as a standard for comparison. Just as in that field one loses the exactness and gains the mysterious touch of undefinability, so we likewise lose the feeling that the book is to reveal a definite series of actions and gain the intimate knowledge of the five persons that form the tale. Yet the characters do impress one with reality; they are vividly stamped upon your mind and in a most striking manner. Their very natures are expertly revealed, from the fickle Cockney lover to the feeble-minded, beer guzzling, "noos"-seeking Pa.

To those who appreciate the delicate touch of a writer, this book must have a strong appeal. The love-making scenes are such that the slightest false move on the part of the author would have produced an irremediable fault; the situations that the author has led himself into are of a fragile nature, and the thread that prevents the scenes from becoming either absurd or incongruous is indeed a delicate one. But Swinnerton manages to carry himself through the entire work with the utmost success.

In recommending this book, I must warn one against expecting to digest it in the manner suitable for a light, fast-moving novel. It is not a serious book in the sense that it will present great fundamental problems, but its delicacy of style will force one to be in a receptive and rather high-planned mood to get the full benefit. "Nocturne" is to be found in the Armour Library.

Arch Librarians Speak at Meet

The Illinois Chapter of the Special Libraries Association held a luncheon meeting yesterday at 12:30 p. m. at the Art Institute.

Miss Abbot, librarian of the Ryerson Reference Library of Art, and Miss Rawls, librarian of the Burnham Library of Architecture, spoke on the history, resources and the usage of these libraries. The meeting then adjourned to the libraries.

The Ryerson Library consists of 27,500 volumes, 25,500 lantern slides, 49,300 photographs and other material. The Burnham Library has 5,200 volumes pertaining to architecture.

Advanced Botany classes at Northwestern are to take on airplane ride over the Indiana sand dunes as part of their required work this semester. The classes have already been many places in the state studying land, plants, and peculiar land formations in their natural surroundings.

Mississippi State College for Women has a grand total of sixty-one schools represented on its teaching corps. One wonders how many of the professors are "confirmed" batchelors!

The freshman women at Marquette University are required to wear the traditional "frosh" cap.

A student at the University of South Dakota commutes by airplane, as he lives sixty miles from the campus.

Nothing can happen more beautiful than death.—Walt Whitman.

Model Engineers Soc. Gives Exhibition at Republic Building

Small working models of machines which we see about us every day hold a great fascination for us. If one of our friends should show a model of his own making we would immediately become interested and "fire" questions at him as to how he went about producing an article so exactly like the large original. If one model representing one man should stir such interest in us then a large collection of models representing the work of many men should interest us that much more.

And they do, judging from the number of persons who visited the exhibition of fine engineering models last week, Nov. 13-16. The exhibition was given by the Chicago Society of Model Engineers and was held in the Republic Building, 209 S. State St., on the tenth floor.

Here models of almost every branch of engineering were on exhibit. A steam locomotive capable of pulling several persons, a yacht, an old schooner, a marine engine, a power plant, a tractor, and an electric locomotive were some of the things represented by models. In all cases they were workable.

One of the features of the exhibition was a model of a standard, "American Type" locomotive, used on the Burlington and practically all other railroads of the United States between 1870 and 1890, and was built by B. J. Arnold of Ashland, Nebr., in 1880. Arnold was a lad of 18 without mechanical training or instruction and he made the model from such crude materials as he was able to gather in a small Western town devoid of machine shop or foundry. He obtained the dimensions of the engine while it was still in service, and was always

FRATERNITY NOTES

TRIANGLE

Triangle held an Alumni Smoker on Sunday, November 17 at the Chapter House. Many of the Alumni returned to enjoy an evening of cards with their class-mates.

SIGMA ALPHA MU

A House Party was held at the home of Avron Simon on Saturday November 16, and the party was a howling success in all senses of the word.

KAPPA DELTA TAU

Kappa Delta Tau announces the pledging of the following men: Henry Levin, Ch. E., '33; Sidney Crane, Ch. E., '32; William Holland, Ch. E., '32; Jack Robbe, C. E., '32.

on hand to take observations at the station where the train stopped to taken on water. Arnold's success in constructing this model without adequate tools shows that the apparent lack of materials cannot hold one back.

A. Willard, '31, is the vice-chairman of the Chicago Society of Model Engineers and when interviewed told of how the society was organized in 1914 to promote interest in the hobby of making models. He said that the C. S. M. E. is the oldest society of its kind and its members make all kinds of models.

The organization consists of 200 members, forty of whom live in Chicago and are from all walks of life. The dues are \$6.00 a year for full membership, \$3.00 a year for a junior membership, and \$2.00 a year for a non-resident membership. This includes a subscription to the Model Engineer, a monthly publication for model makers.

The Society meets every second and fourth Thursday of the month in Rm. 921 Kimball Hall at 8 p. m.

DELTA TAU DELTA

We note that the "be-whiskered" Architects, namely, Roy Barber and Al Hollin, have finally broken down and shaved because they finally completed a project. Have you boys ever heard of Indiana U.?

Vern Sturm has been toting a very conspicuous yellow and black banded tie which he claims was given him by Dean Palmer, we wonder; well anyway, the stripes were running in the right direction.

KAPPA DELTA TAU

The Kappa Delta Tau fraternity takes pleasure in announcing the pledgings of William A. Holland, Ch. E., '32; Edmund Field, Ch. E., '32; Jack M. Robbe, C. E., '32.

RHO DELTA RHO

The Rho Delta Rho fraternity takes great pleasure in announcing the initiation of S. Cannel, '32; E. Goldstein, '32; M. W. Morowitz, '32; H. H. Slavitt, '32.

The annual Fall Frolic was held at the chapter house November 2, 1929, and was attended by the active members and a great number of alumni.

PHI KAPPA SIGMA

Extensive plans are being made for the Homecoming Dance on November 23. The invitations have already been sent out.

SIGMA KAPPA DELTA

Sigma Kappa Delta wishes to announce the pledging of Bradford Larson, F. P. E., '33 and Frank F. Strassenburg, M. E., '31.

A "Radio Dance" was held at the Chapter House on Saturday, November 16, with very excellent reception.

BETA PSI

Beta Psi announces the initiation of Frank Rutkowski, '31.

The second Inter-Chapter Dance of Beta Psi Fraternity will be held this year on November 30 at the St. Clair Hotel. The Armour, Illinois, and Lake Forest College Chapters will be in attendance as well as many friends and alumni.

Washington State College may well challenge the football world for the 1929 traveling championship. Twelve games comprising the longest and most difficult schedule in W. A. C.'s 35 years of football competition, will take the Cougar gridders some 13,688 miles over land and sea before they wind up the season on New Year's day.

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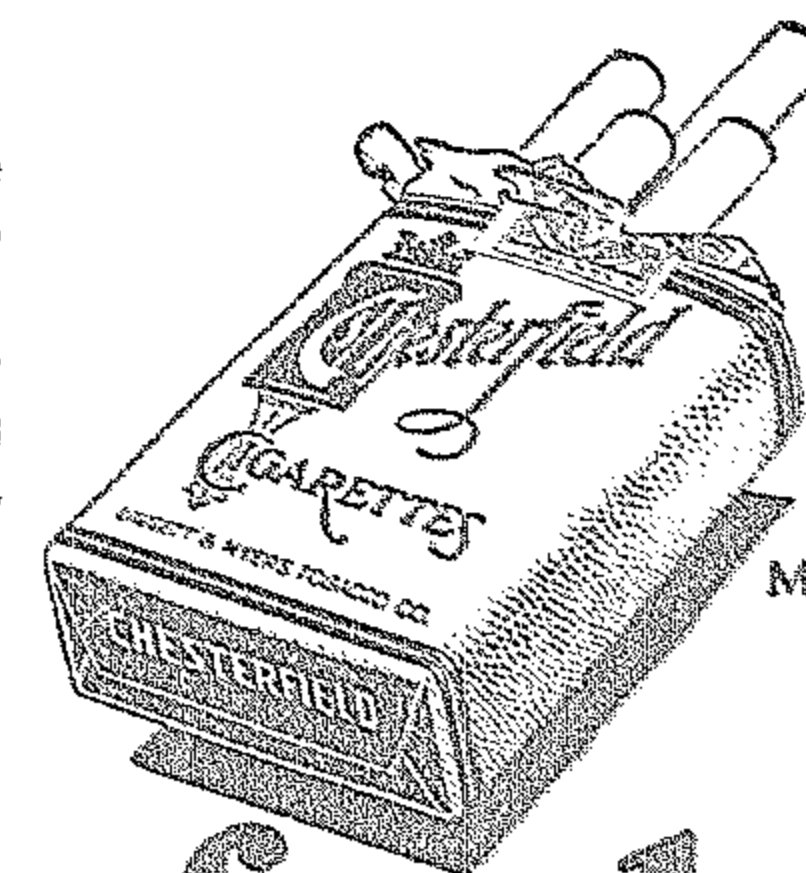
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VARSITY CAGEMEN MOVE TO ARMORY FLOOR TOMORROW

No Cuts in Squad Announced, According to Krafft

PLENTY OF FORWARDS

Three weeks of practice and then the Armour Tech basketball team will play its first game.

Practice has now settled down into a steady affair, with everyday sessions beginning tomorrow with the invasion of the Armory. This will probably make most of the squad feel more at home, for the school gym is more or less of a cigar box. The Armory floor, on the other hand, is as big as they make basketball courts.

Coach Krafft has warned that he expects the men to be in condition for scrimmage as soon as the squad hits the Armory floor. In preparation for this, short drills are held each night in working the ball through one or more guards. Short scrimmage sessions are now held without basket shooting in order to gain condition in wind.

Thursday's scrimmage brought bad news when Miran received a broken nose. This injury, however, will probably keep him out less than a month.

With the appearance of Tell, another letter man, Krafft has quite a few candidates for center and forward positions. These include Simpson, Rossing, Tell, Robin, Ott, Sandsted and O'Connor. Among the guards are numbered Paul, Rutkowski, Miran, Bruni and Rowley. These men and some ten or twelve others will be among the twenty-five men whom Krafft expects to lead to the Armory tomorrow night.

Armour Boxers Improve Rapidly

Unlike the coaches of other sports, Armour's boxing coach, Mr. B. Weissman, will make no cuts in the size of his squad. At present there are twenty-five members and all hold a secure footing with the team.

The probabilities are that a few men will be eliminated by mid-season, but no injustice will be done to them if they are eliminated, for by that time they will have ample time to prove their worth. Naturally the less talented pugilists will understand their relative position with the squad and voluntary resignations are more likely to occur than the involuntary ones.

Mr. Weissman's present staff is composed of five Seniors, three Juniors, eleven Sophomores and six Freshmen. The complete list of the members is as follows: N. D. Buehling, '30; M. C. Larkin, '31; M. G. Whitfield, '30; S. Schwartz, '30; J. E. Taylor, '32; W. L. Sandstrom, '32; C. R. Mitchell, '32; R. J. Schlosberg, '32; F. C. Strauch, '30; R. Nelson, '32; J. P. Donnelly, '33; M. Morowitz, '32; C. N. Cannon, '32; F. A. Ustry-sky, '32; E. M. Wojtasik, '33; D. Smith, '30; C. B. Sommer, '33; E. J. Lopatowski, '31; C. I. Johnson, '32; J. A. Clear, '32; J. E. Clayton, '33; J. O'Hara, '33; G. E. Wieland, '32; E. Wandrey, '33; A. Montesano, '31.

Police Chase Terminates With Wreck On Field

For the second time this semester a large section of the wooden fence along the east and west sides of Ogden field has been torn down by passing vehicles.

Friday morning, about 5:30 o'clock, a stolen car while being pursued by a police squad attempted to turn from Thirty-third street into Federal, with the result that it landed in Ogden Field after making a large section of fence into just so much kindling.

After the wreck the occupants attempted to flee, amid a fusillade of shots by their pursuers. One of the bullets was reported to have penetrated the window of the cafeteria.

Last month, on the Dearborn street side, a similar opening was made when a passing truck jumped the curbing and made a bee line for the cafeteria.

Gridiron Queries

By Professor John J. Schommer (Editor's note: Professor John J. Schommer, star player, conference umpire, and leading football authority, will answer through this column, any questions on football which are puzzling our readers. Questions may be submitted to the Sports Editor, A. H. Jens, or they may be placed in the Armour Tech News box which is located in the main building adjacent to the elevator on the first floor.)

Question 1. Quarter-back of offensive team seeks to trick the defensive team by executing a play as follows: All men on offensive are called to a huddle with the exception of the center and end. Quarter-back signals for the ball, receives it and immediately passes it to his end, thereby making a play entirely unexpected by the defensive. Is the play legitimate?

Answer 1. No. There must be seven men on line of scrimmage the instant the ball is passed.

Question 2. Man of defensive team intercepts pass; runs for the wrong goal line and places ball on the ground thinking that he scored a touchdown. Can another player of his team pick up the ball or snatch it out of his hand if it was not yet downed, and reverse the run towards the right goal?

Answer 2. Yes, he may.

Question 3. Team A punts the ball. Man of team B signals for a free catch while the ball is in air. In the meantime another player of team B runs up under the ball and picks it out of the air, as the teammate is about to catch it. Will he be allowed to advance the ball?

Answer 3. No, he cannot advance the ball.

Question 4. A man receives a pass behind the goal line. After making three or four strides with the ball in arm, he drops it. Does the referee rule that a touchdown was scored?

Answer 4. Yes, the score is allowed if the receiver has possession and control of the ball.

Question 5. Team A kicks to score point after touchdown. The kicker boots the ball over and between the goal posts, but a strong wind carries it directly back causing it to fall on the inner side of the goal posts. Is the team given a point on the play?

Answer 5. The Western interpretation of this does not allow a goal. Eastern interpretation counts goal.

Question 6. Team A is trying for point after touchdown but fails to carry ball across goal line. Team B is offside. Is the point awarded to team A?

Answer 6. Yes, the score is awarded team.

M. B. Tracey Back to Represent G. E.

Last Thursday, Nov. 14, Senior Electricals viewed a moving picture illustrating the work and recreation of Cadet Engineers in the employ of the General Electric Co. M. B. Tracey, '28 E.E., was here as the representative of the General Electric Co. As the picture progressed he explained the features of the various plants and testing methods.

At the conclusion he gave a short talk on the advantages of employment with a company of the type he represented.

Bible Favorite Book At U. of C.

The Bible is the favorite book of University of Chicago students.

It led the list last week when results of the students' balloting for the five books they like best were tabulated. Shakespeare's works proved a close second.

Modern novels? Mystery stories? They trailed far behind books on philosophy and sociology. "Alice in Wonderland," however, was favorably mentioned.

"The Nature of the World and of Man," a recent writing of sixteen members of the university faculty, shared honors with the Bible and Shakespeare.

Forty per cent of the students gave the Bible as their first choice. Shakespeare got 33 per cent.

SWIMMERS READY FOR TANK MEETS, SOUTH Y FIRST

Manager Vander Velde Is Busy With Schedule

TIME TRIALS ARE GOOD

The swimmers are now in their stage of polishing off for the season's meets. Manager Vander Velde '30, has been busy with invitations and challenges sent out to many Chicago district colleges. A meet scheduled last week with South Chicago Y. M. C. A. had to be called off because of the difficulty in securing the tank at the proper time. However, this meet will be run off this week or else next. Another meet with Normal College is expected for the beginning of December.

Captain Fred Strauch, '30, expressed his satisfaction with the large turnout for the time trial last Thursday at the University of Chicago. Much good material was discovered. Those who will help Strauch in bringing in points in the diving will be Charlie Dodson, '31, and John Ireland, '33. Ireland's form is very good and promises big things since he is only a newcomer.

As usual a large number of candidates for the crawl stroke events were on deck. Aiding the newcomers in this event will be the old sea-dogs Eddie Knox, '31, Richard McInerney, '30, and Manager Vander Velde, '30. A few of the new crawl men or free-stylers include Stephen Davison, '33, promising for the 220 yards, La Force, '33, and Nick Gioban, '32. Gioban, last summer, made a very creditable showing in the breast-stroke event, covering 200 meters in 3:20. In this special stroke we remember Jack Cavanaugh's, '32, and ex-captain Walter Trognitz, '30, very good presentations last year.

Back-stroke men are a little scarce, James Filmer, '31, being the only old timer remaining. However Filmer's ability will do for two men. Any men wishing to try for the team are asked to come out to the Chicago Pool, 57th and University, any day about 4-5:30 P. M.

PACKARD MOTOR ON DISPLAY NOW IN AUTOMOTIVE LAB

LATEST IN GAS ENGINE

The automotive laboratory is showing a new Packard aviation motor this week. It is the latest thing in aeronautical design and is regarded as a big step along this line.

The main feature about this leader of engines, is the fact that it is a twelve cylinder, inverted V-type. The oil pan being on top with the cylinder pointing earthward, places the prop shaft about six inches below the uppermost parts of the motor, thus insuring the best possible vision to the pilot of the plane.

It is capable of developing six hundred horsepower and has a total weight of around eight hundred pounds. It is advertised at \$12,000 and is coming into its own by being used to deliver sound and news reels for various film companies. It is also employed by the Navy in experimental work.

A very unique design was used in manufacturing of the engine. The two Scintilla magnetos placed at rear of the engine. The twin ignition system helps to do away with the hazard of a forced landing.

The laboratory is indebted to Mr. D. S. Elrod of the Chicago Packard Company for the opportunity of viewing this engine in our own shops. Mr. Elrod placed the motor in charge of Prof. Roesch for a period of about a week or ten days.

This motor has the characteristic, clean cut Packard design and should be seen to be appreciated. Prof. Roesch says that it would repay every one in school to come in and examine it.

They say people are most agreeable after eating, but the present social discord in Washington seems to show that it depends not on when but on where.

Class Basketball Games Scheduled

Vernon Sturm, manager of Inter-Class sports, has announced the practice periods and game schedule for Inter-Class Basketball as follows:

- Practice
- November 20, Freshmen, 4:30 to 6 P. M.
 - November 21, Sophomores, 4:30 to 6 P. M.
 - November 25, Juniors, 4:30 to 6 P. M.
 - November 27, Seniors, 4:30 to 6 P. M.

Game Schedule

- December 4, Freshmen vs. Sophomores.
- December 5, Juniors vs. Seniors.
- December 9, Championship game.

The Class Team managers are requested to see Sturm as soon as possible about referees, securing of equipment, and various other details concerning the smooth playing of these games.

No major or minor letterman is eligible for a position on his Class Team. This ruling has been greeted by great consternation among the upper-classes, but joyfully by those in the lower classes. The object is to give those who have not been on a regular team a chance to show their skill.

At present it looks as if the school championship is going to be hotly contested. The winning team will receive a trophy of some sort, not to mention all the glory that accompanies such an honor.

These contests are sponsored by the A. T. A. A. in an effort to increase interest in the sport, and uncover material for the varsity team.

Awards Planned for Junior Nine

The inter-class baseball championships, the junior class team, have not received any awards for their victories up to the present.

This matter will be brought up at the next meeting of the Armour Tech. Athletic association where suitable action will result. The junior class will then discuss and vote upon the recommendation of the A. T. A. A. Until such time as these meetings are held the juniors must remain without their awards.

In a meeting of the A. T. A. A. last spring it was decided that sweaters would not be awarded to future class teams. However, some other suitable award will be presented the victors.

King Simpson, President of the Board, will call a meeting the latter part of the week together with Mr. Allison to determine just what their finances will allow them to purchase for the decidedly athletic Juniors.

Flask and Beaker Has Nine Pledges

Flask and Beaker has announced its new pledge list, which is composed of:

- Russell H. Blom, '32.
- Jack Cavanaugh, '32.
- Emmete Cordes, '32.
- Stanley Lind, '32.
- Orville Linnell, '32.
- Leonard Melcarek, '31.
- Armin Mueller, '32.
- Gervase Stockmann, '32.
- J. Westenberg, '31.

Armour Men See N. D.-S. Cal. Game

Sixty Armour men worked as gate-men at the Notre Dame-Southern California game last Saturday. The only recompense for their services was an opportunity to see the game.

King Simpson, president of the Armour Tech Athletic Association, who was in charge of the distribution, had little trouble in disposing of the coveted badges. He gave preference to men who had good records as ushers at the University of Chicago games, and next gave them to upper-classes who were active in school affairs. One or two were given to prominent members of the Sophomore class.

TECH SHORTS

In years gone by Armour has been more or less in the sport spotlight.

Small Five Champs

The baseball team of 1915 won the Spaulding trophy significant of the Little Five Baseball championship.

This cup reposes in the trophy case located in the main hall just to the right of the entrance to the President's office.

Nearly the Big Ten

University of Chicago, Northwestern, Notre Dame, and University of Illinois were all included in the schedule of that year.

Tech has had teams in bowling, water polo, cycling, and many other sports which are considered "old-fashioned" now.

No Spirit Here

Cross Country has been definitely removed from the Tech Sport Calendar, that is for the present year at least. Lack of runners was the principal cause for this decision.

A Meet Scheduled—But No Teams

Manager Schirmer was fortunate in securing a meet with Elmhurst but due to the disbanding of the team the meet had to be canceled.

Those that have been training for cross country are just about all set for indoor track. Heck, the indoor season won't start until after the Christmas holidays.

Well, as Professor Schommer says, "A bit of proper exercise will not hurt anyone."

Schedule Change

We find that the basketball schedule has been reduced slightly in that the Chicago game and the Chicago Tech affair have not been officially scheduled.

"Busted" Nose

"Von" Miran, hard-luck athlete, is suffering a broken nose. In the practice session of last Thursday, "Von" collided with another player with such force that his nose was broken.

This means that "Wully" will probably be out of the Inter-class games which are to be played in several weeks. Sure is tough on the Juniors for they were depending on Miran to help bring home the class championship.

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Inter-Frat. Manager
Now that "Bud" Weldon has been appointed to manage all interfraternity athletics it will be but a short time before he will have the basketball bracket made out.

Fraternity basketball practice will probably have to be such that two teams will practice on the same night. Lack of time is the reason for the jam up.

A Slight Change

Fraternity games and practice will be played after the Christmas Holidays not before as was announced last week.

S. K. D. vs. T. X.

In the football game between the T. X.'s and the S. K. D.'s last week several "niggers" were employed. Henry Fox, loyal S. K. D. played in the T. X. line where his ability as a pass catcher was very evident.

After two hours of combat it was decided that enough was enough and the game was called. The final score was 6 for the T. X. house and 6 for the S. K. D. house.

Is This a Fact?

Another hole has been made in the fence around Ogden Field. We have obtained no statement as to what happened, but our guess is that "Swede" Johnson mis-gauged one of his end runs and crashed through for a nice gain.

The Armour baseball team had batting practice last Thursday afternoon at A. G. Spaulding Bros. factory. Stehno, Simpson, Robin, Link, Anderson, Rossing and Coach Krafft have blisters on their hands as a result of the afternoon frolic.

Who Wants a Badge?

King Simpson is a popular man on Friday mornings, it is then that he passes out the ushers badges for the following day.

"Jawn" Would

Way back in 1912 John Schommer's chief aim in the chem lab was to make vinegar from everything in sight. That, however, was in 1912.

A. H. J.

Money goes up in smoke on the steps of the West Virginia University's buildings, for it has been estimated that 3,000 cigarettes are smoked daily by the upper-classmen, costing \$40, a total of \$300 per week.

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