

Research Begun By Chem Profs

Prof. Freud has revealed the purpose of the types of work being done in the newly established research lab located in Chapin Hall. The laboratory was set up to provide the facilities and means for research by the instructors in the chemistry department, of which Prof. Freud is the head. At present, however, Prof. Freud, Dr. Wasley, Dr. McDonald, and Mr. Levy are the men working in this lab.

Dr. Freud, himself, is engaged in work on phase systems, ternary systems in particular. This involves the determination of the solubilities of various components in a third phase system that is a mixture of three liquids such as water, chloroform, and alcohol. A simple study of such a system would involve in the variation of one of the variables while maintaining all or all but one of the other variables constant.

Limited Time
Dr. Wasley's work is still in the preparatory stage, for it is difficult to proceed with any work very rapidly with the limited free time that instructors have.

The third man using this lab is Robert Levy. For the past two years he has been developing a method of processing hemp and flax fibers to remove objectionable impurities. To date all processing of flax or hemp fibers for use in clothing, paper, or other similar uses have been done by hand. For this reason these fibers have been used only to a limited extent in foreign countries and practically not at all in this country.

In its pure state hemp is similar in appearance and usage to cotton. It has several marked advantages over cotton, both in production and in use.

The hemp requires practically no treatment or cultivation after sowing. In fact in many parts of the country it is considered to be a weed. Marihuana is a form of hemp. It can be advantageously used as a rotation crop. In contrast to both flax and cotton, hemp is a soil rejuvenator.

Used in Paper
Hemp has found extensive use in rope and cable manufacturing and a limited usage in the paper industry. By means of the new processing method, however, hemp fibers are produced that are as pure and as resilient as cotton fibers. In addition to their many cottonlike properties hemp cloth has the additional advantage of greater strength, longer wearing, and most important it is rot proof. It has useage in the manufacture of clothing, fish lines, sail thread and sail cloth, tire casings, paper and many other articles of a similar nature. Pure hemp fibers can be used to produce a paper equal in quality and finish to the best rag paper.

Probably its most important commercial advantage will be its cost. It is assumed that if hemp can be processed by this method on a commercial scale, it will be possible to produce goods of superior quality at a cost less than that for similar goods of cotton.

AIR CORPS—

(Continued from page one)
flying, ground instruction and military instructions at Randolph, the cadet is transferred to Kelly Field for advanced flying training, including cross-country, instrument and navigation instruction. During this nine months' training period the cadet receives \$75 per month and room and board.

Upon completion of the nine months' course, the cadet goes on active duty as a second lieutenant in the Army Air Corps and receives a pay of \$205.50 a month, plus an allowance of \$40 per month for quarters, if the Government is unable to furnish housing. Advancement to first lieutenant comes at the close of the three-year duty, with pay in this rank of \$298.50 per month plus a possible rental allowance of \$60. Reserve officers on active duty are permitted to take examinations for filling vacancies in the Regular Army Air Corps. If the officer returns to civilian life at the close of his three years' tour, he is paid a bonus of \$500.

While there is no dearth of applicants for flying cadet enlistment, college graduates—particularly those with degrees in engineering—have a very good chance of being accepted.

FRATERNITY NOTES

The game that promises to be the last of the current touchball season was played on Friday morning. The Delt steam roller, minus the main spark plug, Scherer, managed to sneak over the Davey Boosters. Duncan sliced through the line to make a safety, and Sparenberg crossed the opposite goal line for a touchdown to make the score 8 to 7.

With this exciting game a thing of the past, the fraternities are giving their spare time, such as it is, to the ping-pong tournament. At the present time, four teams are still in the tournament and four have been eliminated. Pi Kappa Phi easily beat Triangle, Phi Kappa Sigma beat Alpha Sigma Phi, and the Deltas nosed out the boys from Theta Xi.

The social activity of last weekend was centered at Pi Kappa Phi, Phi Kappa Sigma, and many points not on the campus. Phi Kappa Sigma held their Christmas dance on Saturday night. The Pi Kappa Phi Mothers' Club was responsible for a successful card party which was held at the house on Saturday night.

S.A.M. To Hear Labor Talk by Labor Leader

On Friday, when one of Chicago's outstanding labor leaders will speak on the industrial situation as seen from labor's viewpoint, the Society for the Advancement of Management will present its second general meeting of the year. These meetings, to which the entire student body is invited, are composed of two parts. The first consists of a formal address by the speaker of the day, while the second is given over to a forum type of program. Because of the many and varied controversial subjects concomitant with labor, it is expected that meeting will hold an especial appeal to the student body.

The Society for the Advancement of Management is endeavoring to present speakers in various fields of management so as to present a complete picture of management.

There has been an informal initiation held at the Delta Shelter for Bill Kidwell and "Pat" Patterson. All that the pledges now need is the formal ceremony to become Brothers. Since they are losing these two former pledges, the Deltas have just kept the pledge class at the proper level by the pledging of Lou Phillips and Gene Bishop.

We are sorry that Alpha Sigma Phi, Rho Delta Rho, Triangle, and Sigma Alpha Mu have no write up in this issue. However, if they wish to have any place in this column they must turn in their notes to any of the three fraternity editors before noon on Friday.

Dr. Ford Gives Speech On Complex Variables

Last Friday afternoon, Dec. 1, Dr. Lester R. Ford talked on *Projective Transformations in Two Complex Variables* at the University of Missouri.

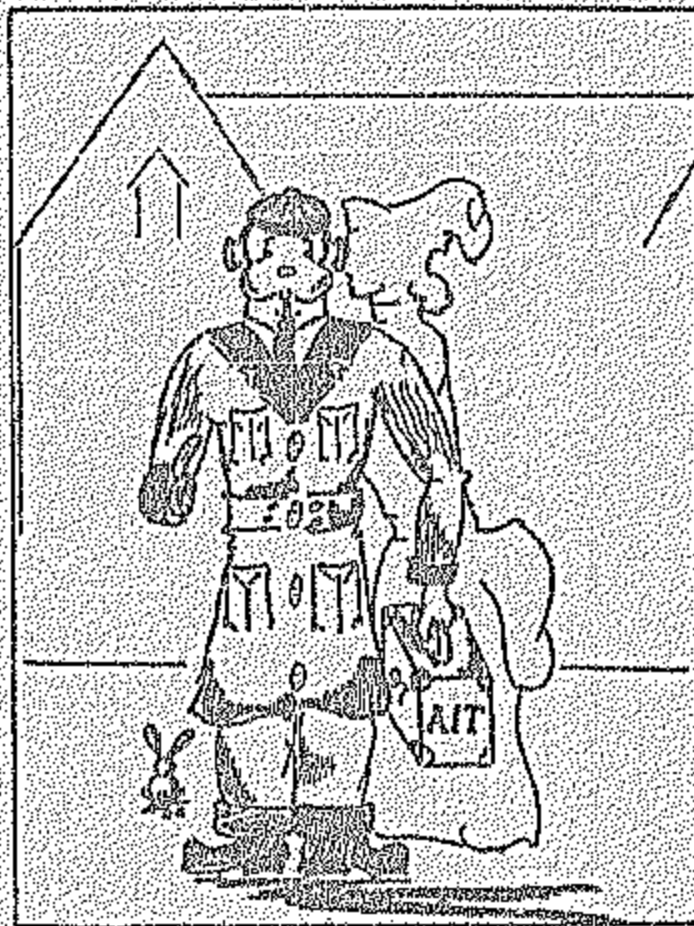
The University of Missouri is celebrating its one-hundredth anniversary. In connection with the celebration the American Mathematical Society is holding a meeting at the University.

Dr. Ford, the head of our Mathematics Department, is a graduate of the University of Missouri where he received the degree of A.B. in 1911 and the A.M. in 1912.

By joint invitation of the Society and the University, two addresses were given: *Projective Transformations in Two Complex Variables*, by Professor L. R. Ford, and *Topological Functions*, by Professor E. W. Chittenden of the University of Iowa. Both speakers are alumni of the University of Missouri.

Dr. Ford came to Armour in 1937 to head the math department. He is the author of several mathematics texts, notably his book on differential equations.

SHADES OF



YESTER EAR

In 1909 Armour boasted only three fraternities. These were Phi Kappa Sigma, Delta Tau Delta, and Tau Beta Pi. In the course of one year, two more were added. The two new ones, added in 1910 were Eta Kappa Nu and Omega Lambda. Now there are about five social fraternities and a few honoraries.

The Sphinx Society of 1909 was made up of members of the publications staff. They were the managers of the publications and helped reduce friction between writers.

Another new club to Armour in 1909 was the Mechanical Society. That is, the club got a charter from the American Society of Mechanical Engineers. The members studied mechanical developments in recent years and earned the reputation of being one of the most progressive of engineering societies.

Breathes there a stude with soul so dead
Who never to himself has said,
As clock chimed out 7 a.m.
"I don't care a D. A. M."?

It seems that way back "when," each club had a "smoker" or "handshake" or something on that order. It isn't done as much now as it used to be.

Before we begin the column today we would like to let you know that our own Student Union Building, the old Armour Mission is 53 years old to the day and is recognized as one of the few landmarks in Chicago. "The doors of Armour Mission were opened to the public Sunday, Dec. 5, 1886." The faces that have entered her are countless as are the number of changes she has witnessed in the progress of Chicago. Bet an old grad wouldn't recognize the interior today. A happy birthday to the Mission, may she see another 53.

Steamshovel—

(Continued from page two)

Our newly acquired ally, Lewis Institute, beat Armour in basketball twice during the season of 1908-09. If they can still do it, Armour should have a real team in a couple of years.

Speaking of women (just to make sure that you'll read the column) we wonder what charms hath the wench, BILL SKEEN drives twenty-five miles for every time he dates her.

Rumor has it that "Minnie" Minieka during one of his glib moments, promised a Lewis Coed that he would sell 100 tickets to a play to be presented at Lewis. A much vexed "Minnie" can now be seen wandering about and mumbling to himself... "Me and my big mouth."

We, with fear and trembling, timidly venture to ask why JOHNNIE "WOLF" PETERSEN was so determined to keep his name out of the STEAM SHOVEL at the Normal dance last Friday.

Notes from the little brown book: The jammed floor, the throbbing melody, the mixed aroma of perfume, wax, basketballs, angora sweaters, and sweat (yeah man! jitterbugs), at the Chicago Normal College Dance last Friday. The flowing grace of some earnest twosomes... the strained intensity of the beginners. Memories... Mankus beaming at a svelte blonde... the studied grace of the slim pianist... five jitterbug couples untangling from a first class collision... Bernie Wolfson's professional skill scaring the girls... a disturbing percentage of Normal girls training to be kindergarten teachers... the dance over and a few couples still lingering to dance to the tune of the wall clock.

Pull in your ears boys, here comes the worst story of the week. Author: PROFESSOR DUTTON. It seems that a man ordered some rabbit stew in a restaurant. Apparently displeased he called over to the waiter. "Did you call this rabbit stew," he complained. "Why, it doesn't taste like there's much rabbit in it." "Oh yes," replied the waiter. "That's genuine rabbit stew. Of course there's a little horsemeat in it along with the rabbit." "In what proportion," queried the customer. "Half and Half," was the reply "One horse and one rabbit."

Now let's look a little into the Armour Kindergarten of which you no doubt (?) have read about in earlier issues. We just want to quote a line from here which still applies today. "Friday is felt to be the happiest day of a happy week. LITTLE surprises are planned on this day for the children..." (Ain't it the truth though, or haven't you heard there's a math quiz Friday, Bud?)



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