

JUNIOR CHEMICALS VISIT LARGE LOCAL SEWERAGE SYSTEM

On Thursday, October 12, the Junior Chemicals made an inspection tour of the North Side Sewage Disposal Plant, the largest in the Sanitary District. This plant uses the activated sludge process for its disposal of the sewage, from Fullerton Avenue to Glencoe. The sewage runs in pipes on a slant until it reaches the plant where it is sixty feet underground. Here it is first pumped to the level and then into tanks in which activated sludge is added and air is pumped in.

Made Harmless

The activated sludge is a concentrated solution of bacterial matter and water. The aerobic bacteria which it contains are a type of bacteria which cannot live without the presence of oxygen. The bacteria consume the sewage as food and render it harmless. The effluent passes to a sedimentation tank where the activated sludge is allowed to settle. A non-putrescible effluent is obtained which is passed into a channel and is diluted with water.

The remaining sludge is separated and part is returned to treat fresh sewage. Next, arises the problem of disposal. Milwaukee has tried using it as a fertilizer but as the market for fertilizers is very low it is not a paying proposition. There is also a possibility of drying the sludge and burning it, and experiments are now under way to test its feasibility.

Bacteria Employed

At present, in the city of Chicago, it is pumped through a nine inch pipe line from the north side station to the west side station. Here the oxidation of the activated sludge is completed by anaerobic digestion in Imhoff tanks.

This process makes use of the anaerobic bacteria, a bacteria which cannot live in the presence of oxygen. These tanks have air-tight compartments in which the sludge falls and hence kills all aerobic bacteria, while anaerobic consume the activated sludge and render it harmless. During this process methane gas is evolved and some small plants use it as a fuel. The effluent is allowed to pass into a channel and becomes diluted with water.

Use Sand Filters

After the completion of the Imhoff cycle the remaining solution is filtered on sand filters, dried and dumped along the sides of the canal.

During the winter months when the sand is frozen and the sludge cannot be filtered it is kept stored in the Imhoff tanks, and for this reason the tanks are constructed quite large.

Dean Heald Talks to Alumni in Milwaukee

Dean H. T. Heald addressed the Milwaukee Alumni Association meeting last Friday evening, October 27, on the subject "Recent Developments at Armour Institute of Technology." He discussed the achievements that have already been made and the different plans that still are to be carried out.

Eugene Randolph Weber, '03, is the president and Mathew F. Beisbier, '28, is the secretary of the organization.

A FRESHMAN'S LETTER HOME

Case School, Oct. 6, 1933.

Dear Folks:

Am getting along magnificently. Found out that the set of compasses I'm supposed to have are drawing instruments. Am mailing back the mariner compasses. I looked up the daughter of father's school chum. Decided not to take her to a show as you advised—she is married and has a son in grammar school.

I find that I can't stop descriptive geometry and take Spanish, as Uncle Ralf suggested. I'd like to, 'though, the stuff seems pretty involved. I'll probably want my golf sticks, tennis racket, and fishing tackle next June. You see, all the freshmen go to camp in the spring. Won't that be fun?

My history teacher is a scream. He can't take a joke, 'though. May have a little trouble about it, but have arranged to apologize Monday.

Love,

Herman.

Arx News

STEWART SANFORD GRANGER and MALCOLM CAMERON FORSYTH crashed through with a 1st. mention apiece on their "Walled Garden". KVAPIL, BUCHHAUSER, DAVIDSON, SEIGEL, ZUKOWSKI, GIBSON, JOHNSON, PRIEST, and MORELLI received mentions.

The sophs didn't do so bad either, KOHN, BERNSTEIN, LENNOR, and ADDIS hooked mentions also.

Finally FORSYTH'S bankers have found where all their money has been going for the past few weeks. It seems he has a very nice RED head on his hands who enjoys lunching in expensive places. BE CAREFUL on that balcony MEL!!!

SUMNER'S face seemed to be alizarin crimson all through life the other day. Can't you take it MAT?

Nope the SCHRIBERS do not believe in brotherly love. The other day while wrestling CHARLIE said yes and ART said no. Well the rest is simple—some one had to give in—now ART has his arm in a sling with a strained shoulder. Hope it gets better!

Seniors... you don't have to worry about how the Senior Informal Dance bids and programs will look this year as long as B. N. GIBSON is taking care of them. He has been chosen to represent the senior architects on the social committee and has charge of the bids.

It's too bad the air in gallery 4 isn't better so that we might enjoy the lecture more. Proof of this is amply shown by MATHIAS T. SUMNER'S falling asleep, falling off the chair, and still being asleep after

New Honorary (?) Formed at School

On Monday of the past week a new organization burst into form. The title of this rather boisterous group is "The Bee" under the able leadership of "Georgie" Gilmore and "Wild Tom" Murphy. Several men have already been initiated. In spite of the fact that the organization is only an infant it already has one honorary member in the person of "Big Art" Larson. The following men were initiated in the past week: G. F. Graham, M. Henoch, Ted Wall-schlaeger, and F. Woodsmall. Those topping the list for future initiations are: C. Clarkson, D. Chadwick, W. Knudson, and J. Ader.

Initiation heretofore took the form of being tipped upside down, but the two charter members state that no two initiations in the future will be the same. Requisites for memberships in the organization seem to be actions disagreeable to said Gilmore and Murphy.

The two charter members are designated by lunch room napkins in their folded form with frayed ends. All other men have the plain folded napkin in their breast pocket. All men desiring to see the form of the initiations should see Herb Raschke who is taking pictures of them. So far this organization is confined to the electrical group of the senior class, but it is hoped that other groups will become enthused.

hitting the floor.

Freshmen — "BEWARE" — wear those green caps or suffer the consequences.

SNOOPING SAM.

Prominent Alumnus Meets With Death

Jacob M. Spitzglass, an Armour alumnus of the class of 1903, died at his home Wednesday, October 4 of heart disease. Mr. Spitzglass held the position of vice president at the Republic Flow Meter Company, having worked with that company and its predecessors since his graduation in the mechanical engineering course.

His most recent work was development of a gas burner for home heating. A majority of the 14,000 gas burners installed in Chicago and suburbs by the People's Gas Light and Coke Company in its recent campaign for the use of gas heat in homes were products of the Republic Flow Meter Company as developed by Mr. Spitzglass. The president of the company is Mr. J. D. Cunningham, chairman of the Board of Trustees at Armour Institute.

Eight Men Taken Into Faculty Club

During an informal meeting held the early part of this semester, the "Faculty Club" of Armour received the following additional men as members: C. G. Blough, R. M. Cunningham Jr., H. P. Dutton, W. B. Fulghum, A. M. Hillhouse, H. K. Laniger, W. B. Lockling, and C. C. Olsen. As a part of this meeting, a discussion of contract bridge by experts took place. The conclusion of this informal debate brought the final results: "Hereafter, post mortems of contract by Professor Perry should be told twenty-four hours after the event—only."

Fraternity Notes

PHI PI PHI

The Annual Pledge dance was held last Saturday night and the dance was a great success. The pledges did a swell job of decorating and the entertainment kept every one in fine spirits.

The house pool and ping-pong tournaments are now well under way and the "dark horses" are running away with the honors, having eliminated most of the favorites. The chapter bowling team is rounding into shape in preparation for the Phi Pi Phi Inter-chapter tournament which we hope will bring the President's cup to our house.

PHI KAPPA SIGMA

Alpha Epsilon chapter of Phi Kappa Sigma takes great pleasure in announcing the pledging of I. Murray Hughes, F. P. E., '36.

The ping-pong tournament is getting well along now with most of the old standbys still in the running. Johnny Walker managed to defeat Bill Fogle 4-3 and is only waiting to play the winner of the Biegler-Marow match to cop the cup.

"Hank" Weis, '31 was up from St. Louis last week-end for a visit to the World's Fair.

RHO DELTA RHO

Preparations for the first big dance of the year are entirely completed now, and Chuck Handler, social chairman, says the orchestra is a "pip". The dance, besides being the first of the year, has a double function in being the official "pledge" dance.

With a big alumni turnout promised, there is going to be plenty of whoopee this Saturday night!

We congratulate Pledge Herman Ross on being elected treasurer of the freshman class. Good work, Herm.

BETA PSI

The party held at the Chapter House Friday evening turned out to be a huge success. This was primarily due to the efficient manner in which Pledge Breh handled the decorations end, especially that certain pumpkin carved out, using Mr. Burson as a model.

A great deal of spirit is being aroused, due to the ensuing inter-fraternity basketball schedule.

TRIANGLE

The basketball quintet has been practicing vigorously, and from the looks of things the cup will look mighty good on Triangle's mantle.

Brother Oberbeck, who received an appointment to West Point, is having a great time with his studies.

Chapter inspection will be held the week-end of Nov. 4, by Brother Artie Schwerin.

TRUSTEES ON N R A BOARD

Two members of the Board of Trustees of Armour Institute, James D. Cunningham, the chairman, and Bernard E. Sunny, have been appointed members of the N R A Mediation Board which will handle labor disputes in this territory, comprising approximately the Chicago Federal Reserve District. Mr. Sunny is the donor of the two Bernard E. Sunny Scholarships which were established in 1908.

IT TAKES HEALTHY NERVES TO RUN 308 AT BILLIARDS!

ERICH HAGENLOCHER, twice 18.2 balk-line billiard champion of the world. Healthy nerves have carried him through stern international competition to many titles. Mr. Hagenlocher says: "For successful billiard play, watch your nerves! I've smoked Camels for years. They are milder. They never upset my nervous system."

TALKING IT OVER calls for more Camels. Steady smoking reveals the true quality of a cigarette. Camels keep right on tasting mild, rich and cool... no matter how many you smoke.

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IT IS MORE FUN TO KNOW Camels are made from finer, MORE EXPENSIVE tobaccos than any other popular brand.

Steady Smokers turn to Camels

"I know of no sport," says Erich Hagenlocher, "that places a greater strain on the nerves than tournament billiards. The slightest inaccuracy can ruin an important run. One simple rule for success is, 'Watch your nerves!' I have smoked Camels for years. I like their taste better. Because they are milder, they never upset my nervous

system, and believe me, I smoke plenty."

There is a difference between Camel's costlier tobaccos and the tobaccos used in other popular cigarettes. You'll notice the difference in taste and in mildness — and Camels never jangle your nerves. You can prove this yourself. Begin today!

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