

VISIT HINSDALE'S ONE-MAN PUMP-ING STATION

A "one man" pumping station and water treatment plant located at Hinsdale, Illinois, was the object of an inspection trip made Friday, Nov. 8, by the Junior Chemical Engineering class. This plant, which is one of the few of its kind in the country, is a masterpiece of engineering genius. The complicated processes of chemical treatment, filtration, carbonation and storage of the water are carried on smoothly by machinery with such precision that the labor of but one man is required in the operation.

Water is obtained from three wells sunk to an average depth of two hundred feet. The water is pumped to the surface and into the plant where it is treated successively with 3.25 pounds of lime, 0.9 pounds of soda ash and 0.095 pounds of sodium aluminate per 1000 gallons of water. The proportions of chemicals are regulated by devices controlled by the rate of flow of the water. After this treatment the water goes to a settling basin where the sludge precipitates to the bottom and clear water runs over a wall into a storage tank where the water is carbonated, by blowing through it carbon dioxide under pressure. This, in addition to precipitating the excess lime as calcium carbonate, has the effect of giving the water "life" and of removing the flat taste. Next the water is filtered by the rapid sand process.

When the water enters the plant analysis show that it contains an average of 31 grains of solid matter per gallon. The treated water leaving the plant contains only 6.5 grains per gallon. Continual analysis are run on both the intake and outgoing water for relative hardness, alkalinity and incrusting solids.

This plant provides Hinsdale with the purest, softest water of any of the West Suburban towns along the

Auerbach, '31, Made Slipstick Editor

A. B. Auerbach, '31, C.E., has been appointed to the position of Humer Editor of the ARMOUR TECH NEWS staff. His ascendancy to this position was the result of a careful comparison by the editor of the amount and quality of the work submitted by several competitors for the position ever since the semester began.

Merit Only Criterion

He will hold the position, just as other members of the staff, only so long as his work is superior to that of any other aspirant to the job, according to Professor Walter Hendricks, who is faculty adviser of the NEWS. This is in accord with the policy maintained by the NEWS ever since its establishment last semester, namely, that the only criterion used in choosing and maintaining men in certain staff positions is the comparative merit of their work.

Other Jobs Available

There still exists a scarcity of assistants on the staff of the NEWS. Reporters from all classes, feature writers, artists, or those interested in the business department are all in demand. Organization of a staff with a view toward next year's requirement is now under way, with the intention that the staff next semester will be able to carry on the work at that time without the aid of the graduating seniors who now hold positions.

C. B. & Q. R. R. The average annual cost is about \$13.00 per family. Hinsdale, incidentally, is the only one of these towns which owns and operates its own water works. The plant has a daily capacity of 1,200,000 gallons, but at the present time is pumping about 550,000 gallons per day.

Tip to the boys: After the senior informal tomorrow brush your coat lapel carefully or you'll "Keep that school girl complexion." —A. J.

Band Features Frosh Trumpet Quartette

A trumpet quartette composed of the following Freshmen: G. L. Bonvallet, A. Wabash, R. E. Moore, and C. D. Stover, is to be featured at the next appearance of the Band, according to G. L. Rezac, director. This innovation, it is promised, will provide a distinct novelty in the form of band music. New arrangements are also being practiced, several of which exceed in difficulty any which have been previously attempted. A novelty French composition the title of which has not yet been disclosed, is also promised at the next appearance.

Director Rezac reports that excellent progress is being made by all sections of the band. The rehearsals are being enthusiastically attended, most of them being overtime sessions. Although hard hit by the June graduation, the band is recuperating rapidly and with an influx of new Freshman talent bids fair to outshine anything ever developed in musical organizations at Armour.

The orchestra rehearsals are also well attended. The Christmas concert is not far distant and George Rezac promises new music and new orchestral effects for that event.

Although such excellent progress is being made by both organizations, there is still ample room for new members. Any students who play any instruments are urged to try out for a position.

Precocious Professor: "Fools can ask more questions than wise men can answer."

Precautious Senior: "Is that why we all flunked in the last test?" —A. J.

How does it happen that you were late today?

There were nine of us in the house and the clock was only set for eight. —Jay Ash.

Quadrangular Meet For Cross-Country

As the climax of its fall season, the Armour Tech Cross Country team will meet the harriers of Loyola University, Wheaton College, and Northwestern College of Naperville in a quadrangular meet Saturday morning, November 24, at Washington Park. This will be the last appearance of the Armour squad this year. Between thirty and thirty-five men will run over the three and a half mile course on that braw November morn to settle the merits of the different teams. The first twenty places will count in the scoring.

Armour Team Successful So Far

The Armour team defeated the Loyola runners in its first meet of the season, but lost to the Wheaton team in a later meet. Armour holds a forfeit victory over La Grange High School when they failed to show up for their engagement. Wheaton College led by Hess their fleet footed captain trounced Northwestern College of Naperville handily in a practice meet but lost to them in a surprising upset in their scheduled meet.

The Armour runners have been handicapped by being forced to practice after dark and then only for a limited time, but by hard work have managed to show quite a bit of improvement. The men are eager to finish the season with a winning percentage, and to revenge their defeat

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Be savage again.
Go hungry and cold like the wolf,
Go wade like a crane;
The palms of your hands will thicken,
The skin of your cheek will tan,
You'll grow ragged and weary and swarthy,
But you'll walk like a man.

—Hamlin Garland.

at the hands of Wheaton College. The following men will probably run for Armour:

D. T. Smith, Capt.
A. Montesann.
F. James
H. Hodgson.
V. Taylor
H. Eckleman
D. Iverson
H. Fox.

BYRD EXPLORERS TO USE CHESTERFIELDS ON TWO YEAR TRIP

Commander Richard E. Byrd, who is now on his way to the South Pole in the ships of the Byrd Antarctic Expedition, has figured out the number of cigarettes a day a man consumes when the thermometer reads sixty degrees below zero. He has ordered 780,000 Chesterfield cigarettes, a two years' supply, from the Liggett and Myers Tobacco Company.

The question of which cigarette to choose was answered by a preference of a majority of Byrd's men for Chesterfields.

During the long wait for good weather in the Spitzberger camp, preceding Byrd's flight over the North Pole, the commander had an opportunity to see that his men just "ate up cigarettes."

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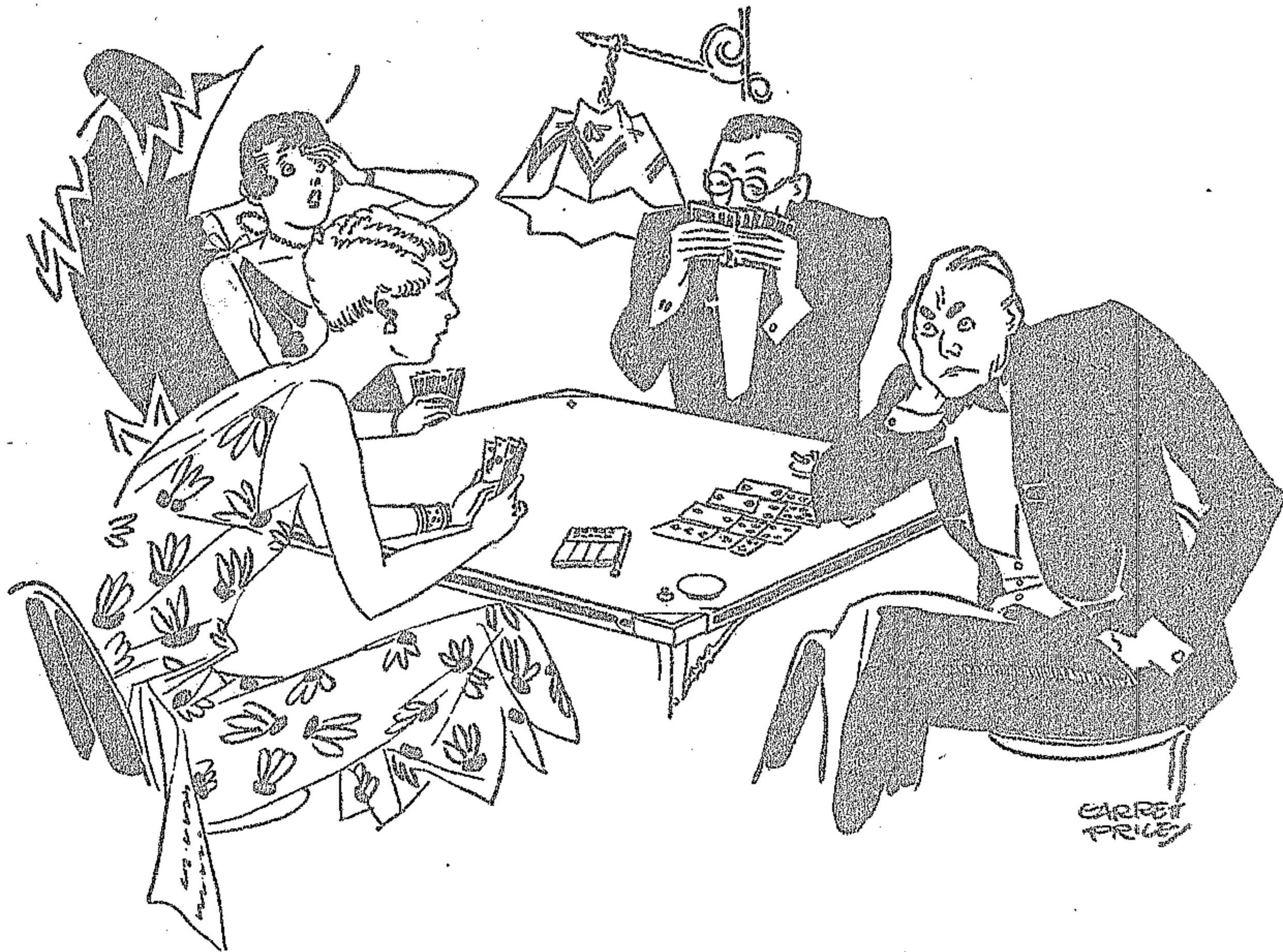
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A leading bridge expert once said, "The aces and kings play themselves; it's the little spots that make games."

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