

SEWAGE DISPOSAL SYSTEM BASED ON GRAVITATION PULL

Water Separated From Sludge by Big Centrifuge — Disposes of Million Gallons of Water Daily

By HOWARD W. BLAKESLEE (Associated Press Science Editor) COLLINGSWOOD, N. J.—(AP)—The pull of gravitation, multiplied 2500 times, is used in a new form of sewage disposal in operation at Collingswood.

The new apparatus puts a pull of 38,000 pounds to the square inch on raw sewage. The result is instant separation of the water from the sludge—the "de-watering" which has been one of the main problems and expenses.

The machine is a big centrifuge, tall as a man, an application of the whirling principle which scientists have developed lately. In the great scientific laboratories, even molecules of different weights are separated completely by the centrifuge method.

Basket Is Whirled. For sewage the whirler is a metal basket about the size of two fat barrels piled one on top of the other. It revolves 2000 times a minute. Its sides are perforated with "ladder" holes.

That is, a hole does not go directly through, but in a series of downward steps, lining the inside of the basket is a plate of special filtering material.

As the big barrel whirrs, the sewage contents are pressed against its sides with a force 2500 times that of gravitation's pull. The water passes through the filter and out the ladder holes.

The sludge gathers on the inside lining. This is the first major change in dewatering sewage in many years. Discovery of the principle of "floatation" of ores in the mining industry was adapted years ago to sewage disposal and has been the standard usage since.

The Collingswood unit complete weighs about nine and a half tons. It disposes of a million gallons of water daily.

Used As Fertilizer. It was established as a full-size test of the centrifugal principle after smaller laboratory trials. The American Centrifugal Corporation of New York, which put it up, makes several claims for economies compared with the present dewatering methods.

The sludge, it is said, is ready for immediate incineration when taken from the whirling basket. It is dry enough so that it burns without great cost. Or it can be used for fertilizer.

The company says the expense of drying beds is saved, capital costs are reduced about 30 per cent. The centrifuge is independent of the weather.

The water, it is claimed, is clarified enough to be returned to streams without polluting them.

Washington Vote On Power Slated

OLYMPIA, Mar. 1.—(AP)—An amendment to the constitution authorizing the state to engage in the power business will be submitted to the voters at the general election next year as a result of the action of the house today in concurring in senate changes to the house bill to permit rural retail electrification. The revised resolution repealed the lower chamber 82 to 16.

TORNADO SWEEPS THROUGH KANSAS



The funnel-shaped cloud was two miles away when this picture was taken north of Wichita, Kas. The tornado, tearing through a five-mile path, leveled four homes, three business houses and other buildings. (Associated Press Photo)

MINISTERS PROTEST MANEUVERS BY NAVY

PORTLAND, Mar. 1.—(AP)—Arguing that the great naval maneuver the United States plans for the north Pacific waters in May is pregnant with the threat of war, Methodist ministers, in their annual peace seminar, have decided to file a formal protest with President Roosevelt.

Any "untoward incident" during the maneuvers, they said, might precipitate a war with Japan. Meeting here Wednesday, 32 Methodist ministers of the Pacific Northwest, led by Dr. Charles F. Boss of Chicago, observed that Japan has been made to feel she is surrounded by a chain of enemies.

Bacteriology for Mr. Germ COLUMBUS, O.—(UP)—What's in a name? John Germ, Cleveland, is planning to specialize in bacteriology. He has written Ohio State university for information on courses in that field.

When it comes to radios, remember "Fruitt's can do it." Phone 22.

DIGGERS HIT GAS IN CINCINNATI SUBURB

CINCINNATI — (UP)—Fuel gas struck in a well-digging on a highway five miles east of suburban Coney Island here sent the entire community into flurries of excitement.

Elated well-diggers lighted the gas and found it burned in a three-foot flame through the night. Hundreds of neighborhood residents visited the well as the news spread, hopeful that a valuable pocket of gas, under their lands had been tapped.

The discovery came as a surprise while a well-digging company was seeking water. Finders are capping the well to determine if its pressure is sufficient to make the fuel pocket commercially valuable.

Has Six Great Grandparents NASHUA, N. H.—(UP)—Ruth Ann Davis is, perhaps, the only child in New England that has the distinction of having six great grandparents. She has three great grandfathers and three great grandmothers.

SCIENCE MARKING TIME IN SEARCH FOR CANCER CURE

Discoveries of Relationship Between Sex and Metaplasia May Have Bearing On Problem, Is Word

MONTREAL—(UP)—McGill university scientists are making little headway in their search for the cause of cancer. Dr. J. B. Collip, chairman of the department of biochemistry, admitted here.

Questioned regarding reports that a relationship had been found between sex and metaplasia, Dr. Collip said that Dr. H. Selye, Dr. D. T. Thompson and himself recently had obtained definite proof of the long-suspected, but unproved, relation between the female sex hormone and metaplasia, which is the direct conversion of one form of tissue into another form, for example, of cartilage into bone.

Definite Bearing Dr. Collip emphasized that he and his associates are not yet able to foresee how their discovery can be applied to the cancer problem, but they regarded their work as having a definite bearing on cancer research and are hopeful that several months more of experimenting will lead to a conclusion one way or another.

Dr. Collip explained that the female sex hormone has been suspected of causing metaplasia for some time. The McGill discovery came in the course of an investigation into anti-hormone effects.

Create Resistance The scientists found that after repeated doses of hormone from the anterior pituitary gland, the body builds up a resistance to the hormone. They are trying to find whether this anti-hormone effect would also be produced by repeated injections of the female sex hormone when they discovered that excess amounts of the hormone did produce tissue changes.

Dr. Collip said that daily injections of the sex hormones for 19 weeks produced metaplasia in rats.

Negro Murderer Facing Sentence

PORTLAND, Mar. 1.—(AP)—Roy Floyd Tindall, negro, wanted to sit in at a pinhole game. He was broke. He asked Charles Patton, negro, for 30 cents. Patton refused. They quarreled. Tindall drew a knife, there was

WOLFE-BE SUICIDE IS ORDERED TO ASYLUM

PORTLAND, Mar. 1.—(AP)—Commitment to the state hospital for the insane was ordered for Mrs. Eva Hunt who Wednesday leaped from the high Burnside bridge here into the Willamette river, only to be rescued by the crew of a passing tug.

The woman disregarded the fearful pleading of her 10-year-old daughter with whom she was walking across the span. "Mother said she was going to jump into the river, so I followed her from home," he girl told detectives. "She and Daddy had a quarrel."

Super-Improvement Bill Held Invalid

SALEM, Mar. 1.—(AP)—Senate bill 319, known by title as an act for the creation of super-improvement districts within the boundaries of incorporated cities, was declared unconstitutional by Attorney General I. H. VanWinkle in an opinion given Senator Allan A. Byrnes, one of the members who introduced it.

EL PASO POWER STRIKE TRUCE IS AGREED UPON

EL PASO, Tex., March 1.—(AP)—A truce was agreed upon today in a power strike that paralyzed private and public business for more than 12 hours in El Paso and 27 surrounding towns.

Resumption of the vital services—water pumping, sewage disposal, street cars and elevators—for an area of 200,000 population was expected by 2 p. m. (M. S. T.), allowing two hours for the reopening of the El Paso Electric company plant.

HOOVER'S SON SUED OVER AUTO ACCIDENT

BAKERSFIELD, Cal., March 1.—(AP) Herbert Hoover, Jr., son of the former president of the United States, today was sued for \$94,000 damages as the result of an accident in which his car figured. The plaintiff is W. E. Young of Banning, Cal.

The accident occurred 25 miles south of Bakersfield, October 31, last. Phone 542. We'll haul away your refuse. City Sanitary Service.

FRANCE STARTING MOVE TO REGAIN TOURIST THROUGH

Efforts of Spain, Italy, Germany and Russia Spur Effort — Huge Decrease Seen in Recent Years

By Reynolds Packard United Press Staff Correspondent. PARIS—(UP)—An active campaign to recapture the tourist trade, which in former years brought \$1,000,000,000 annually into French pockets, is developing here as spring approaches.

Critics of the official French bureau of tourism assert that although there has been a great falling off in travel during recent years, Spain, Italy, Germany and even Soviet Russia are succeeding in their attempts to attract thousands of foreigners.

The important afternoon newspaper "L'Intransigeant" declares France has much to learn in this respect from Italy, where Count Galeazzo Ciano is waging an intensive campaign to make Italy the most popular country in the world for travel.

"Reliable figures reveal the astonishing progress being made by Italy," says "L'Intransigeant," emphasizing the importance which Premier Mussolini attaches to attracting foreigners. "In 1929 there were only about 320,000 tourists, while in 1934 tourists increased to 3,500,000, or eleven times as much."

"The head of the Italian government knows that tourism, above everything else, is the pleasure of travel. What interferes with this pleasure more than anything else is excessive expense. Italy, realizing this, has reduced railroad fares in many instances as much as 70 per cent. Tipping has been done away with. A limit of 30 lire per tourist was placed on the Taxe de Séjour."

"Despite the crisis, we see that Italian tourism is magnificently increasing. Why should it not be the same in France?"

DON'T GET UP NIGHTS

MAKE THIS 25c TEST Use Juniper oil, douchu leaves, etc. to flush out excess acids and waste matter. Get rid of bladder irritation that causes waking up, frequent desire, scanty flow, burning and backache. Get Juniper oil, Buchu leaves, etc. in little green tablets called Bukeks, the bladder laxative. In four days if not pleased go back and get your 25c. Get your regular sleep and feel "full of pep." Health's Drug Store, Jarmin Drug Store

DANCE OF ST. DENIS IN PRESBYTERIAN CHURCH DECLARED A DISGRACE

NEW YORK, March 1.—(AP)—Ruth St. Denis' appearance in the Park Avenue Presbyterian church has been brought to the attention of the presbytery of New York with a demand for disciplinary action against those responsible for the "attack on the purity of the church."

But the move, launched by James E. Bennett, an attorney, got a laugh from the noted dancer. "The rhythm of the human body, she said, is like the human voice. A neutral instrument of expression." As for her red socialists it was no different for her to paint them as a dancer than it was for the choir singers to polish their fingernails.

Bennett demanded action so that "disgraceful scenes of this kind" would not be repeated. "The Reverend Edmund Wylie, pastor of the church, commented, 'In the first place, it was not a dance, and in the second place, Miss St. Denis has a real message.'"

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BANKRUPT SALE OF WOMEN'S HATS Begins Saturday at the M. M. Dept. Store OVER 500 HATS ON SALE!

We purchased the entire stock of the Adel Lee Millinery Shop at Sheriff's Sale and are offering our patrons the opportunity of a life time to buy good looking hats at give-away prices... Here are three sensational bargain groups!—See this stock on our main floor tomorrow!

ONE LOT OF HATS Selling at 10c Hats In this Lot Sold up to \$2.50 MAIN FLOOR

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