

ASK THE SCIENTIST

If you have a question to ask the scientists, mail it to the New York Press Association, The Castle, Syracuse, 10, New York. The Science Board of the Radio Workshop at Syracuse University will answer each week in the Andover News those questions considered most interesting and timely.

Question 1. My daughter's science teacher has told her that if the total energy of the atom could be released, I could carry enough power in a teaspoon to drive my car across the continent. Is this true?

ANSWER. As a matter of fact, the teacher was very conservative. There is enough power tied up in the atom of a teaspoonful of water to drive a car for over 20 years of average driving, that is, if the energy can be harnessed so it may be released gradually.

Scientists have tapped this energy in the rare metal that is known as Uranium 235. The energy is so great that one pound yields power equivalent to 1,000,000 pounds of coal. Eight pounds would drive the Queen Mary across the ocean.

Question 2. What is disappearing ink?

ANSWER. Disappearing ink is composed of certain chemical substances which will slowly change to a colorless or invisible material. If, for example, one writes with a dilute solution of starch, the writing will turn blue on exposure to vapors of iodine, but when standing for some time the color fades out completely.

Another disappearing ink is made from cobalt chloride. The writing is invisible until it is whereupon it turns blue. If one breathes upon it or allows it to stand for a time, the writing fades again to invisibility.

There are so many so-called secret inks which are invisible until they are treated with a suitable chemical which develops the color. One of the simplest of these is lemon juice. The writing may be brought out with a hot flat iron or by holding the paper over a low flame. This, however, is permanent once the color has been developed.—Dr. Aden King, chemist.

Question 3. Will wild animals die of fright?

ANSWER. A number of animals are able voluntarily to inhibit many of their vital activities to the extent that they can often fool a dog by thus feigning death. Many animals become very frightened when they are captured, do not adapt themselves easily, and as a result often die of malnutrition.—Dr. Verius Zimmerman, zoologist.

Question 4. What materials are being commercially extracted from sea water?

ANSWER. Before I answer your question, here are some facts about sea water. In all the oceans and seas of the world, there are over 300,000,000 cubic miles of sea water. Each cubic mile contains about 75,000,000 tons of dissolved solid chemical material which at present market figures would be worth over \$5,000,000,000. To answer your question: in sea water we find practically every element known to man. Gold, silver, magnesium, copper, iron, iodine, etc. About 77 per cent of this total, however, is ordinary salt. In spite of these huge values, only a very few materials are actually recovered for commercial purposes. The ocean is a valuable liquid mine, but because of the difficulties involved very little is used.

Salt was probably the first mineral to be taken from sea water. Because it was easier to get it from other sources, practically none of our salt comes from the ocean.

Bromine is necessary in ethyl

gasoline to keep the motor from fouling with the lead from the gasoline. A huge plant was set up at Cape Fear, N. C., to remove this bromine from the sea. It was built to handle over 100,000 gallons per minute from the Atlantic ocean and could take out the bromine at the rate of 60,000 pounds a day. All of this goes into the production of ethylene dibromine for use in making ethyl gasoline.—Dr. Aden King, chemist.

Question 5. What is meant by the term "vegetable dye?"

ANSWER. Vegetable dye is one which may be extracted from plant materials such as coffee, beets, and other things of that type. However, many of these dyes can be prepared in the chemical laboratory from such raw materials as coal. Some of these coal tar dyes are non-poisonous and they are less expensive than the natural products.

Births

Aug. 16—To Mr. and Mrs. Robert Joseph, Cuba, a son.
Aug. 17—To Mr. and Mrs. Christopher Beddle, Cuba, a daughter.

Aug. 18—To Mr. and Mrs. Carrol Lucke, Friendship, a daughter.

Aug. 18—To Mr. and Mrs. Dale Hutchinson, Angelica, a son.
Aug. 20—To Mr. and Mrs. Kenneth Single, Wellsville, a son.

Aug. 21—To Mr. and Mrs. Kenneth Harris, Wellsville, a daughter.

Aug. 18—To Mr. and Mrs. William Mead, Bolivar, a son.

Aug. 20—To Mr. and Mrs. Willard Gashill, Bolivar, a son.

Aug. 21—To Mr. and Mrs. James Dawyer, Wellsville, a son.

Aug. 21—To Mr. and Mrs. Richard McBride, Wellsville, a daughter.

Aug. 25—To Mr. and Mrs. Cecil Pierce, Belmont, a daughter.

Aug. 25—To Mr. and Mrs. Robert Seelbinder, Wellsville, a daughter.

Marriages

Aug. 17—Miss Helen L. Prosser of Cuba and Charles L. Vandusen Jr., of Olean.

Aug. 19—Miss Thelma Dunlap of Cuba and Robert Goldthwait of Nunda.

Aug. 15—Miss Alice Clark of Friendship and Harold Neilson of Oakland, Calif.

Aug. 17—Miss Idarose Waslerless of Wellsville and Emmett O. Mulkin of Friendship.

Deaths

Mrs. Clara A. Lowrey, 80, of Angelica, Aug. 25. Two daughters, a foster daughter, and three sisters survive.

Mrs. Ina Childs, 85, of Cuba, Aug. 18. A daughter and three sons survive.

Mrs. Fannie Storms, 76, of Allentown, Aug. 22. Two daughters survive.

John J. Donovan, 59, of Wellsville, Aug. 24. A son, a daughter, a brother and two sisters survive.

Belmont Municipal Bld. Approved by State

The New York State Post War Public Works Planning Commission has approved the construction of the municipal building at Belmont, at an estimated cost of \$29,000, which the citizens of Belmont approved at a recent election.

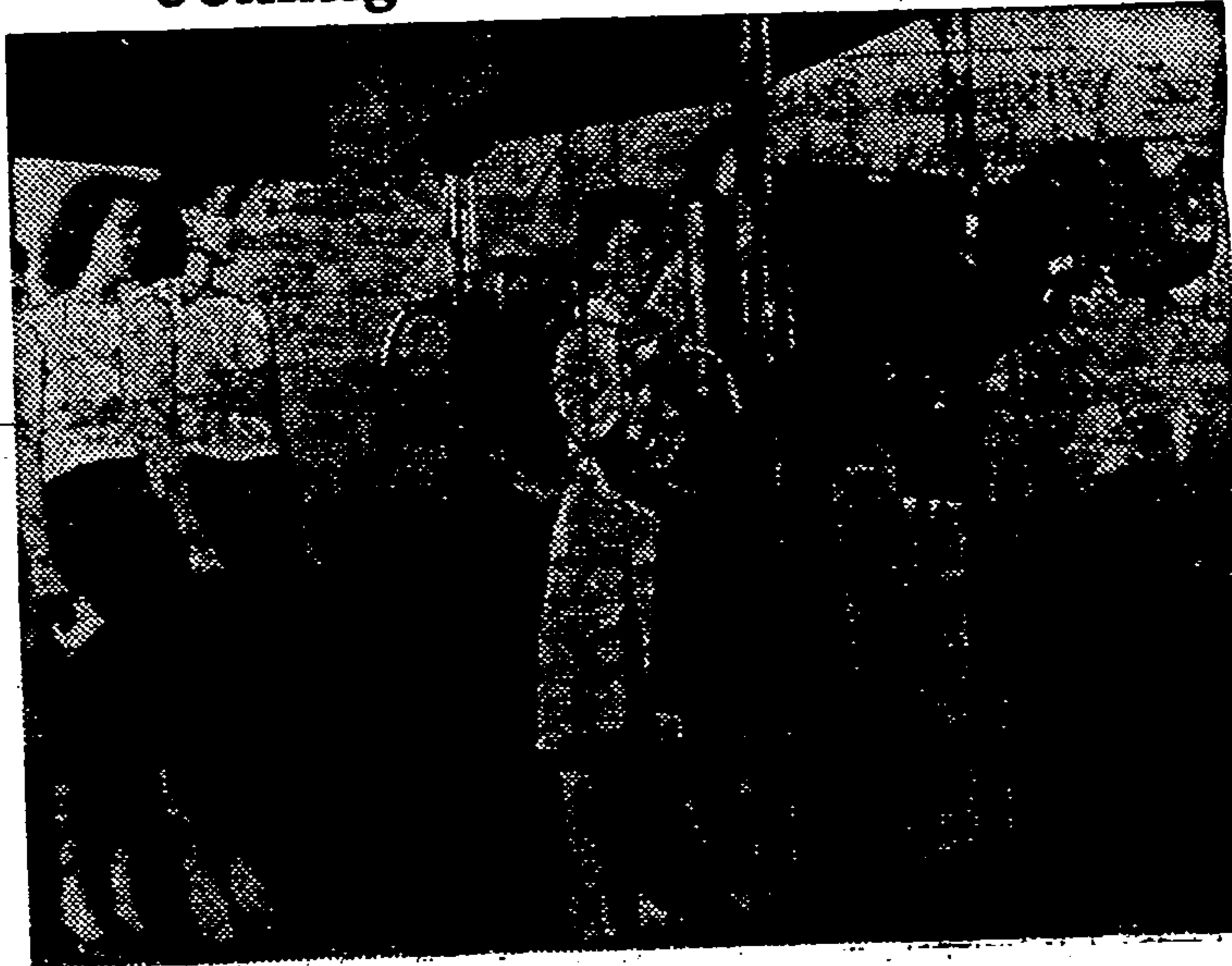
The building will house the Belmont Fire Department, village trucks and highway equipment, with a meeting room, kitchen, etc., for the fire department on the second floor.

Bad Boy

A 14-year-old Detroit youth was picked up by Wellsville State Police Saturday, following a daylight robbery of a cash register containing \$70 at Riverside, Corning that noon, was sentenced to Industry for an indefinite term.

The youth also admitted the stealing of automobiles in Milwaukee, St. Paul, Worcester, Mass., and Westfield, Mass.; and when arrested he was driving a 1946 car stolen at Westfield.

Joining the Health Parade



X-RAY UNIT ARRIVES

The Powers X-ray Unit from Glen Cove, N. Y., arrived in Allegany county this week to begin work at the Angelica Fair. Stop in at the Chest X-Ray Booth and make sure you are healthy. GET YOUR CHEST X-RAY NOW. — MAKE IT YOUR HEALTH VOW!

6 NITES 9th Hrs. Everything 6 DAYS
BATH N.Y. FAIR
SEPT 3-5-6-7-1946
OPENS LABOR DAY

"Stand up," shouted the evangelist. "Stand up if you want to go to heaven." Everybody stood up excepting one old man.

"Don't you want to go to heaven?" asked the preacher. "Sure I do, but I'll be dag-gummed if I want to go with an excursion," replied the oldster.

NOTICE

The Empire Gas and Fuel Company, Limited, of Wellsville, New York, on August 23, 1946, filed with the Public Service Commission at Albany, New York, the rate schedule shown below to be effective October 1, 1946. These constitute an increase over the temporary rates now in effect of Five Cents per Thousand Cubic Feet of gas consumed and Five Cents per minimum monthly bill.

The present temporary rate schedule expires September 30, 1946 of its own terms and will not be renewed further.

Classification No. 4

	Gross Rate per MCF	Discount per MCF	Net Rate per MCF
First 3,000 cubic feet per month	\$.75	\$.05	\$.70
Next 47,000 cubic feet per month	.52	.02	.50
Over 50,000 cubic feet per month	.46	.01	.45
Minimum Monthly bill	.75	.05	.70

Steel Milk Stools Steel Barn Sash
Litter Carriers and Track
Feed Trucks Milk Coolers
Gas Furnaces
V-Belts for Every Purpose
Barn Door Track and Trolleys

C. V. HOWLAND SUPPLY CO.

BOYS' SHIRTS, size 10 to 16 \$1.65
BOYS' WORK SHIRTS \$1.29-\$1.40
BOYS' POLO SHIRTS 79c-\$1.00
BOYS' PANTS \$1.50-\$2.00-\$2.75
Children's Overalls ... \$1.05-\$1.20-\$1.50-\$2.25
Boys' Pull-over Sweaters \$1.25-\$2.75
Athletic Socks 35c-50c

THE H. H. WILLIAMS CO.

—OPEN EVENINGS UNTIL 8:30 P. M.—

ENJOY Post-War Comfort in Your Pre-War Home

by having a conversion gas burner installed in your furnace or boiler . . . or a Floor Furnace might be the answer to your heating problem.

Call your Gas Company, Andover, or drop a card to our Wellsville office for free estimate.