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New Tool That Science Has Long Waited.

URBANA, ILL. — A 22,000-volt free electron beam which can be used to "penetrate the core of an atom and study the nucleus in a way never before possible," has been produced at the University of Illinois.

The beam is described by the scientists as a "new tool for which atomic and medical scientists have long waited."

It comes from the university's 22,000,000-volt betatron which had been used previously only to produce high voltage X-rays.

Entirely new ways, the scientists added, to study the inside of the atom; study the behavior of electrons; create artificially radioactive substances and attack deep-seated cancer.

Theoretical calculations indicate that the beam might disclose important advantages over X-rays in the treatment of deep-seated cancer.

The scientists said, however, that three to five years of further study might be required before such a powerful force can be turned on a living human being for tests on patients.

The scientists point out that artificial radioactivity is not new but that its creation by electrons with such a powerful energy is.

Whether the two are different is another question they now hope to answer.

Iowa Is U. S.'s No. 1 Food Producing State

Iowa, admitted to statehood in 1846, produces more food for the tables of the nation than does any other state, and across its rolling plains lies one-fourth of the grade A soil in the entire country. Iowa is first in corn, oats, hogs, poultry, eggs, value of livestock, and in finished cattle for market.

The state is roughly rectangular, a pattern repeated over and over in its 222,000 farms and countless fields — nearly all of which are square or oblong. The flat checkerboard impression of today's traveler in Iowa is quite different from the concept of the first white visitor, Pere Marquette, as he drifted down the Mississippi under the bluffs near present-day McGregor, in 1673, wrote in his journal. "To the right is a chain of very high mountains."

With rare exceptions roads run directly east and west or north and south, and there is one to every mile. Only four states have more hard-surfaced highways than Iowa. The state is fourth in railroad mileage; no point is more than a dozen miles from a rail line. This transportation network gets precious crops to market in record time.

Black Spruce Swamps Restocked by Planting

That cut over black spruce swamps can be successfully restocked by planting is indicated by a test made on the Superior national forest, Minnesota, in the spring of 1938. Two-one black spruce trees were bar-planted at a spacing of four by four feet directly in a heavy growth of live sphagnum moss overlying peat. The moss was so wet that regular slits could not be made, so much of the shaping of the hole and subsequent firming of the moss around the roots was done by hand. Unlike plantations on upland which often have to be weeded or released two or three years after planting, no subsequent care was required by these trees. An examination in October, 1945, at the end of eight growing seasons, showed a survival averaging 68 per cent, or about 1,850 trees per acre. Moreover, these survivors averaged 44 inches in height (ranging from 16 to 87 inches). The shorter trees were found in the wetter areas. The examination brought out the fact that sphagnum moss is an excellent rooting medium due to its extreme porosity, large water-holding capacity, and good aeration.

Fourth of Animals In Atom Test Killed

BIKINI LAGOON.—Nearly 25 per cent of the animals placed aboard ships in the first atomic bomb test were killed outright or died later from exposure to lethal rays, a member of Vice Admiral Blandy's staff revealed.

In addition, many of the animals still living are critically ill. Capt. R. H. Dreager said it would be months before the full story of what happened to the animals could be told. He said the animals suffered "no real pain."

Studies have disclosed, he continued, that if the ships had been manned by crews, most of the seamen would have survived and would have been handling ships ready for action.

Button-Stealing Butler Forgiven, Buttles Again

LONDON. — Through the chills, stately halls of ancient Warwick castle, Thomas George Cook went about his butting duties with a clear conscience. Police had written him the mystery of who stole the jeweled buttons of the Earl of Warwick's vest.

Cook is an excellent butler, but a poor judge of horseflesh. He had "borrowed" the platinum and diamond buttons to defray the costs of a disastrous day at the track.

But the earl, whose ancestors made and unmade kings of England, is a man who values a good butler above a set of waistcoat buttons.

Despite the earl's forgiveness, however, a magistrate's court said the fine and costs would total \$76.40.

When the buttons were stolen, the earl was in Africa shooting lions. He said he hadn't worn that particular vest for 10 or 12 years.

"I'm afraid this is not the first time Cook has had racing trouble," the earl confided. "I've always stumped up and he has always paid back."

Test New Type Radar in Flight Over the Pole

EDMONTON, ALTA.—A B-29 Superfortress with a pressurized cabin recently made a flight of more than 5,000 miles from Edmonton over the north geographic pole and back, first such flight in history originating on Canadian soil, it was learned.

No details were released officially by United States army air force headquarters here, but it was believed the flight by way of Fairbanks, Alaska, was made for instrument testing purposes, particularly the Loran device, which is similar to radar, and to gather data on weather conditions in the polar regions.

The B-29 was one of three Loran monitoring aircraft which have been based in Edmonton for some time. Carrying a crew of 12, the plane stopped at Fairbanks for refueling and then went over the pole and returned to Fairbanks in approximately 23 hours. Later the B-29 returned to its base here.

Rhapsody Orchestration Now in Congress' Library

WASHINGTON. — Ferde Grofe, composer and orchestra leader, presented the original manuscript of his piano-orchestra version of the "Rhapsody in Blue" to the Library of Congress.

The orchestration of the famous composition by George Gershwin was written by Composer Grofe in New York in 1934.

Everybody reads newspapers but NOT everybody reads circular advertising left on their door step.

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California Termed Quake 'Hot Spot'

Scientists Produce Figures To Prove Claim.

PASADENA, CALIF.—Two scientists have produced figures showing California to be the earthquake "hot spot" of the United States by a wide margin.

Conversely, if you live east of the Rockies, the chances of being tossed out of bed by a major earth tremor are fairly remote.

Drs. Beno Gutenberg and Charles F. Richter of California Institute of Technology have determined from records going back 42 years that California and Nevada have about 90 per cent of the seismic activity of the United States.

Together they record about 5,000 quakes a year (1.3 per cent of the world's total).

The scientists hasten to add, however, that two-thirds of these are of the smallest magnitude and only a few are destructive.

The total does not include the "swarms of small earthquakes that always occur as aftershocks following a major seismic event."

Their studies currently are highlighting a campaign, in the midst of the West's greatest housing boom, for quakeproof construction of major buildings.

The reason Mother Nature is so unstable in these parts explains also why Japan and Pacific islands have so many tremors.

The land areas bordering the Pacific are the newest geologically in the world.

California has two major faults, or splits in the earth's crust. One is the Owens valley trough, on the east side of Sierra Nevada range.

The other is the San Andreas fault, which enters from the Pacific north of San Francisco, bisects the state lengthwise and finally crosses the border into Mexico.

High Cost of Living Doesn't Worry Him

STOUGHTON, MASS.—Leonard A. Whitten, 60, a carpenter, who estimates his yearly expenses at \$400, is not concerned about the high cost of living. Here's why:

Home? He built the two-room house he lives in.

Vegetables? He grows them.

Meat? He goes hunting for that.

Haircuts? He lets it grow.

Electricity and telephone? He doesn't have any.

Fuel? He cuts his own wood.

Furthermore, he takes all summer off.

Moon Worship in Early Arabia Told by Science

WASHINGTON.—Existence of a civilization of moon worshippers, who lived in southern Arabia just before the Christian era, has been revealed by Dr. Carleton S. Coon of Harvard university.

Dr. Coon told of the discovery of the moon worshippers in a report published by the Smithsonian institution.

The worshippers composed four highly civilized kingdoms which were the principal trading link between the east and the west. But of what were once "splendid temples and lofty skyscrapers," Dr. Coon said, only scattered fragments remain.

Their moon religion took many strange forms. Dr. Coon said that in reconstructing the religion from ancient inscriptions, it was found that the people believed "the sun was a woman, and the moon her husband—the stars their children, and of these the most important was Venus.

"These stars eventually became angels; people and animals were the children of the gods," said Dr. Coon.

This new discovery opens vast new fields for archeological exploration, the Harvard expert said. An entire new civilization is now expected to be uncovered in the near future.

British Stock Up on Bread on Rationing Eve

LONDON. — British housewives rushed the bread stores and bakeries on the eve of bread rationing. Stores were completely sold out of bread and flour.

It was the biggest buying rush London had ever seen.

The food ministry in a midnight announcement also added oatmeal, wheat porridges, macaroni, spaghetti, pudding and cake mixtures, pearl barley and a number of other cereal products to the rationing program.

Army Air Forces Want to Fly With Atomic Energy

WASHINGTON.—Army air forces said that it is working with aircraft engine companies in a research program to find out how atomic energy can be used to propel airplanes.

A primary contract to supervise the work with other companies has been awarded to the Fairchild Engine and Airplane corporation of New York.

Watch Clothes for Mildew

Mildew is not a simple stain, as many people believe. It is a fungus growth that eventually "eats" into the fabric, causing serious and permanent damage. It thrives in a damp, warm, dark, unventilated place. Therefore, if clothes are even slightly damp when put away or if dampness reaches them in storage, a closed bag and hot summer weather make conditions ideal for the growth of the mildew. Before storing clothes, they should be given a thorough brushing, airing and cleaning to make sure they are dry to help prevent fungus growth in garments. The clothes should then be stored in a dry place or in a moisture-proof container so dampness cannot reach them. Unless such safety measures have been taken, stored clothes should be examined in mid-summer to see if any mildew has started. If so, they should be taken out of the storage bag at once, brushed, sunned and dried outdoors before putting away again.

Black Hole of Calcutta

The black hole of Calcutta refers to the infamous imprisonment of 146 English people in a military jail in Calcutta in 1756. Suraj-ud-Dowla, 19 years of age, became the Nawab of Bengal and soon after broke with the British authorities. His sack of the town of Calcutta and capture of Fort William is the chief event of the town's history. Most English officials fled, but those remaining were forced to surrender after a brief resistance. The prisoners were forced into a single cell, about 18 feet long and 14 feet, 10 inches wide. The only ventilation came through two small barred windows that opened onto a veranda. It was mid-June when the heat was most oppressive and by morning only 23 of the 146 were alive. One of the survivors, John Holwell, commandant of the fort, gave an account of the agonies endured that night in the "Black Hole." The site now is marked with a black marble slab.

Vitamin Research

Recent research at several state experiment stations indicates that loss of vitamin C — one of the most important offerings in fresh fruit—may be avoided if the housewife does not prepare fruit too long in advance and keeps it in the refrigerator while it waits. The New Mexico station found that cut sections of cantaloupe held in the refrigerator 2 to 4 hours lost no vitamin C, but that after 18 to 21 hours the loss amounted to 13 per cent. Co-operative studies at the Georgia, Louisiana and Virginia truck stations showed that sliced tomatoes may be held in the refrigerator for a few hours without loss of vitamin C.

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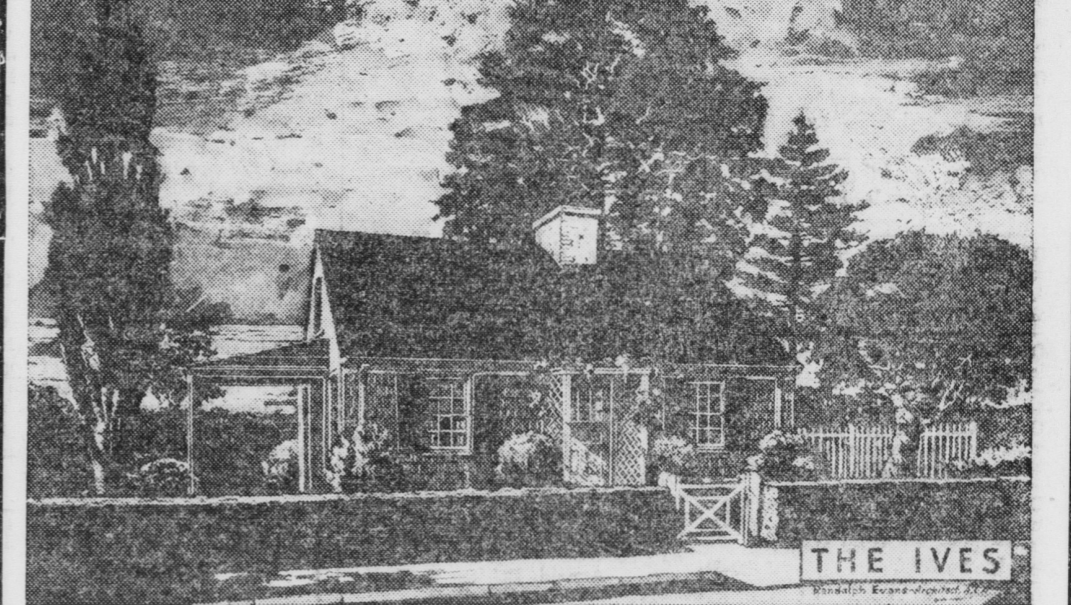
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The Ives is an almost square measuring but thirty feet across the main part and extending to a depth of twenty-six feet permitting this home to be built on a small plot. Then too, the kitchen and bathroom are placed so that the plumbing is back-to-back and the centralized form of heater system eliminates the necessity of a basement. A disappearing stairway hugs the ceiling of the semi-hallway and when pulled down, this stairway provides access to the attic storage room. Well directed principles of home planning are reflected in this all-on-one floor plan.

FLOOR PLAN

Diagram showing a house layout with rooms: BED ROOM 1 (11' x 12'), BED ROOM 2 (9' x 12'), HALL, BATH, KITCHEN (10' x 11'), LIVING ROOM (13' x 16'), and PORCH (6' x 10').

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