

10th Anniversary of Atom Chain Reaction Sees Energy Used for Peaceful Purposes

(Editor's Note: Ten years after the first successful atomic chain reaction, science is applying atomic energy to peaceful purposes ranging from cancer research to fertilizer. Progress so far, and some intriguing prospects, are reported below in the third of a series of four articles on atomic energy.)

By FRANK E. CAREY
AP Science Reporter

WASHINGTON (AP)—A man suffering from a late-stage brain tumor is lowered into a special chamber atop the huge atomic energy "furnace" at Brookhaven, N. Y. Powerful rays, generated by the atomic inferno and guardedly released through a tiny port-hole, are brought to bear on the malignant growth—with a promising chance of prolonging his life.

Out in Wisconsin, a farmer counts receipts from one of the best corn crops he's ever had, thanks to a lot of the gain from atomic scientists using a different way of applying fertilizer.

In a hospital in Boston, a woman sips an "atomic cocktail" containing radioactive iodine which may help rid her of spreading, out-growth thyroid cancer brought on by surgery. In all probability, the cocktail will at least prolong her life and make her more comfortable.

These are examples of atomic energy at work in the humanitarian service of man in this month that marks the 10th anniversary of the actual dawn of the atomic age. It was in December 1942 that man first demonstrated a sustained atomic chain reaction.

In medicine, in agriculture and in industry there is tangible evidence that the titanic force later loosed upon Hiroshima in the form of an atomic bomb can be applied to serve man, as well as kill him.

Gordon Dean, chairman of the Atomic Energy Commission, summed up progress this way in response to a query whether atomic energy has lived up to the great expectation people had for it at first:

"I recall some rather sensa-

tional predictions made for atomic energy back around the time it first became known. But if you will look at the statements made by our leading and most responsible scientists about that time, I think you will find that atomic energy has measured up to their estimates.

"We ought to remember, one thing: Atomic energy has never existed in times we call 'normal.' It was born in time of war and it has grown up in a period of international tension and mobilization. The emphasis, consequently, has been on weapons. In this area, I believe that progress has exceeded expectations.

"On the productive—as opposed to the destructive—side, progress has been slower, but it has still been substantial. The surface has hardly been scratched in these fields, but in the past few years many hundreds of people have been trained and much knowledge has been accumulated. Progress should speed up accordingly. It was a long road from Benjamin Franklin's kite to the modern TV set. The road ahead looks promising indeed."

Scientists say now there is definite hope for powering submarines, ocean liners and aircraft with atomic energy—and harnessing the atom for electric power and manufacturing in the not too far future.

But some scientists say that radioactive isotopes, whose manufacture is centered in the Cumberland Mountains of Tennessee, may someday yield benefits to man that would overshadow even the harnessing of atomic power for propulsion and manufacturing.

They speak of the hope—born of a few pioneering experiments—that the use of such materials as tracers in the human body may help solve the riddle of the processes involved in cancer, diabetes, heart disease and others among man's greatest afflictions.

The atomic tracers send out signals which help scientists study or measure hidden processes. Scientists speak of tiny steps of progress already made with tracer

isotopes towards solving the mystery of photosynthesis, the process by which plants use the sun's energy to build up the plant tissue that animals and men depend upon for food. If man could duplicate this process artificially, the problem of feeding the world's hungry millions would truly be solved overnight.

Atomic researchers also say it may be possible to produce more powerful and effective drugs, insecticides, weed-killers, and plant growth promoters through chemical research aided by radioactive tracers.

They even have hopes that atomic "rays"—from isotopes or other sources—may eventually be employed to produce strains of plants resistant to disease, drought and other hazards.

But what has actually been accomplished so far in using the atom in medicine, agriculture and industry? Here's the record:

Medicine—In addition to tracers, several isotopes have been used in the direct treatment of a few diseases. That is, the rays from the materials have been employed somewhat like X-ray to attack diseased tissue or cells.

Radioactive iodine is being used to treat certain cases of thyroid cancer and of overactive thyroid.

Only a few outgrowth cures have been obtained in the cancer cases, but most patients receiving the treatment are reported to get "real value" from it in terms of feeling better and possible prolongation of life. Approximately 95 per cent of overactive thyroid cases can be controlled by the use of radioactive iodine, doctors say.

Radioactive phosphorus has proved useful in the treatment of certain cases of leukemia.

American researchers are also talking about some ingenious methods developed by the British for bringing radioid and other isotopes to bear against cancer. One such technique involves use of a device that looks like a youngster's water pistol for "seeding" bladder tumors with pellets of radioid. Another involves inserting a deflated balloon into the bladder and then inflating it with solution of radioactive sodium and radioactive bromine.

Radioactive cobalt, a relatively inexpensive substitute for radium, has been fabricated by American scientists into a "wire" that is "threaded" around the contours of a deep-seated cancer.

Top atomic doctors say "the fascinating" use of atomic energy in the treatment of cancer is the effort by researchers at the Atomic Energy Commission's Brookhaven, N. Y., from their atomic furnace as a weapon against brain tumors.

Scientists will say only that results have been promising.

Agriculture—Research with radioactive tracer isotopes, such as phosphorus, has enabled scientists to trace nutrients through soil, into roots and thence, through plants. Thus they've been able to determine at what stage in its growing cycle the plant needs to exploit neutron radiation for "seeding" fertilizer.

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AWOL TAKEN
A 22-year-old man whom the FBI said was AWOL from the Army since last May was picked up here last night. He was booked at the County Jail as R. S. Young.

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CALIFORNIA 'SUNSHINE'. More than six feet of snow blankets the Donner Summit, area of California in the High Sierra, creating wintry scenes galore. Sign points to pass through which the ill-fated Donner Party turned westward. Unable to get through the party camped in this area during the winter of 1846-47.

Farm Tax Help Starts Here

Klamath and Lake County farmers may have assistance in income tax matters Jan. 2 through Jan. 15, with declaration of estimated tax filing deadline on Jan. 15.

Calendar year income tax returns must be filed by Monday, Feb. 2 if no estimated tax is filed. Farmers who do not file estimated tax return on or before Jan. 15 must file a completed income tax return on or before Feb. 2.

This pertains to farmers only, and other taxpayers will be assisted later.

The tax-filing assistance will be available at the Post-Office building Jan. 2 through Jan. 15. Help will be available at the Klamath Agency office on Jan. 8 and in the Malin postoffice Jan. 9.

In Lake County, help will be available at the Lakeview City Hall Jan. 7-8 inclusive, and at the Clatskanie Hotel in Paisley Jan. 9.

Runaways Found in LA

Two young boys who ran away from home last Friday have been located in Los Angeles. Deputy Juvenile Officer Fay Blackmer reports.

They are being held in custody at Los Angeles and their parents have gone for them.

Three boys, two aged 14 and the other 15, left their homes here because they didn't want to return to school, but one of the 14-year-olds came back last Sunday after reaching Redding.

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Highlights At KUHS

By HAROLD McKay
Mrs. Blomquist's drama students gave what they hope will be the last presentation of the two Christmas plays this morning.

They presented the plays to students of Henley High School in the little theater. Unlike the times the plays were presented to the KUHS students both plays were shown, one right after the other one was finished and the stage setup changed a little.

This year's El Rodeo will have a special section honoring the young seniors who have labored long and hard at jobs connected with the school that receive little or no recognition.

This section will be somewhat like the assembly was last year to give some recognition to the students who otherwise would receive no recognition.

More about the El Rodeo. The price of the annuals goes up to \$3.25 starting next semester. All you students who believe in Ben Franklin's saying, "A Penny Saved Is A Penny Earned," should dig your spare change out of your old socks and buy a yearbook before the price goes up.

Man Held On Auto Charge

Chester Keluchi, 22-year-old Pit Indian residing at Beatty, waived hearing in District Court yesterday afternoon on a charge of taking and using an auto without the owner's permission.

He is held in the County Jail in lieu of \$1,500 bail.

The charge against Keluchi had been larceny of a car, but was reduced to the lesser degree. Keluchi was arrested by Indian service officers at Chiloquic.

Methodists Plan Watch-Night

A "family fun and watch-night" program is scheduled for the First Methodist Church tonight, 8:30 until 11 p.m. The program offers a movie, songs, games and the closing watchnight service.

Persons attending are to take sack lunches.

The event is open to the public, according to First Methodist Minister Lloyd Holloway.

CITY BRIEFS

Breakfast—Mooseheart Alumni of the Moose are serving their annual New Year's morning breakfast for Moose members and their families at Moose Hall, 1010 Pine, Jan. 1, from 10 a.m. to 12 noon. Bacon, eggs, hotcakes, potatoes, toast, fruit juice and coffee, 60 cents for adults and 30 cents for children. Phone 8454 for reservations.

Jobs Daughters—Meet Friday, 8 p.m., at the Masonic Temple.

Do-Si-Do Club—will meet as usual Thursday evening, Jan. 1, 8 p.m., at Eagles Hall.

There Will Be—A public square dance tonight, 8 p.m., at the city library auditorium. J. D. Stanley will call. Callers and instructors come prepared.

Ill—Word has been received here of the serious illness of Mrs. Webb (Goldie) Kennett at Redding. Mr. and Mrs. Kennett lived here for many years leaving some time ago to make their home in Redding.

Fred Hadlock Heads 20-30

Fred Hadlock was elected president of the Klamath Falls 20-30 Club at a meeting held last night in the Willard Hotel. Bill Collier and Ivan Eccles were named vice presidents.

All terms commence on Jan. 1, 1953, and are for six months.

Named to the board of directors of the club were Bob Clammer, Erik Carlson, Wally Nordwall and Bernie Griffin. Dick Finnell was elected sergeant at arms, and song leaders in a vote are Ed Hooley and Jack Kemmiller.

The Twenty-Thirtians voted a \$25 donation to the rehabilitation fund of the Veterans Memorial Shaft on the courthouse lawn.

The 20-30 Penny-a-Day bank began its rounds last night to collect that amount from each member of the club in an effort to build up a collection for the rheumatic fever fund. At present 20-30 International is granting fellowships to students studying effects of certain drugs on the fever, and others studying other phases of the disease.

Foresters Slate Meet

The Shasta Cascade Chapter of the Society of American Foresters is to meet Jan. 16 in the Lakeview Hotel, Lakeview, with Oregon State Game Commission's Bill Lightfoot to discuss the Oregon-California interstate deer herd.

Jack Groom, Fremont National Forest, is chairman of the affair. Reservations for the affair are due by Jan. 5. Starting time is 6:30 p.m., with dinner slated to get underway at 7:30 p.m. Jan. 16.

where Kennett owns The Hub. Mrs. Kennett will submit to major surgery again Friday at Mercy Hospital. She is a sister of Marjorie Barnes.

Klamath-Yacht Club dance for teen-age members and guests will be held at the club, Saturday evening, Jan. 3, 8 p.m. to 12 midnight. Music by Pete Colley.

Alpha-Social Club, Chapter No. 61 OES, will meet Friday, Jan. 2, 7:45 p.m., at the Masonic hall for the annual election of officers. Cards will follow dessert. Members are invited.

Prosperity-Rebekah lodge will meet Wednesday, Jan. 1, 8 p.m. Formal are not required for this meeting.

Visitors—Mr. and Mrs. E. J. Champagne, Medford, former Klamath residents arrived here today to spend New Year's with their daughter, Betty, employee of the Herald and News. Betty Champagne and Vi Wolter of Rickys will leave Friday afternoon for a weekend in San Francisco.

Watch Party—Midland Grange holds a watch party tonight at the Midland Grange Hall. Everyone is welcome.

Dance Tonight—The Regular meeting of the Veterans of Foreign Wars scheduled for Thursday evening, has been canceled. However, there will be a New Year's Eve dance for members and guests this evening at the Veterans of Foreign Wars club, 500 Klamath.

Pledged—Marilyn Hardin, daughter of Mr. and Mrs. J. A. Hardin, 901 Division, is one of 27 Pacific University coeds recently pledged to membership in Kappa Delta sorority.

Visitors—Judge and Mrs. Charles S. Schaaf, former residents of Klamath Falls, spent Christmas with their son and daughter, Clarence and Mel Howie and Mrs. A. F. Stainbrook. They left Friday to spend a week in Los Angeles and will return to their home in Harbor, Ore., this weekend. Judge Schaaf was elected judge of Curry County in the November election.

Radioactive isotopes are in rather wide use in the metals and related industries as a means of detecting flaws in casts and welds.

They are being employed in the paper, rubber, aluminum and plastics industries to provide thickness gauges for products under process.

For example, a radioactive isotope is placed above a sheet of paper being processed through a machine, and a Geiger counter is placed beneath the sheet. If the thickness of the paper varies point to point, the Geiger counter will show it.

Radioactive isotopes are also being used to locate leaks in pipes encased in masonry—thus sparing extensive tear-down jobs.

They're also being employed in research designed to produce better lubricants, improved automobile tires and other products. And the Navy is even making dirt radioactive in a quest for improved laundry soaps and detergents!

As the New Year approaches, it starts us thinking... we are deeply appreciative of the loyalty of our many friends to whom we owe our rapid growth. It's pretty nice to be in a business where you share in the joy of a family moving into their own home... in the happiness of those who are seeking always to better their living!

Yes, it's nice... and we are eagerly looking forward to the year ahead, with further opportunities to serve you. There are so many wonderful new building materials... improved methods of construction and distinctive trends in home design... the future of the building industry never looked brighter!

Best wishes to all for a bright and beautiful New Year! May each day hold a full share of health, happiness and prosperity for millions of you.

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Rubinstein Wins Reprieve

WASHINGTON (AP)—Three federal judges have temporarily saved Serge Rubinstein, rich Russian-born financier, from being sent to Ellis Island on a deportation warrant.

But the 45-year-old New Yorker, who served a prison term for draft dodging, may be ordered to surrender before the year ends at midnight.

The U. S. Court of Appeals indicated it may announce sometime this afternoon a decision on whether to bar the Justice Department from taking Rubinstein into custody.

The 4 p.m. Tuesday deadline set by Atty. Gen. McGranery for Rubinstein's surrender to the New York office of the Immigration and Naturalization Service was almost two hours past when the Court of Appeals asked the Justice Department to hold up action while it considers the case.

The Justice Department promptly said it would respect the request. A half dozen immigration inspectors who had started coming Washington for Rubinstein were told to call off the hunt.

Rubinstein came to Washington from New York, but remained in seclusion while his lawyers battled in two courts in his behalf. The attorneys refused to tell reporters where he was.

But they told the Court of Appeals he will surrender immediately should its ruling be against Rubinstein. Only his immediate detention was involved in those proceedings.

In asking the Justice Department to delay seizure of Rubinstein, Judge Henry W. Edgerton told Frank H. Strickler and Robert Scott, assistant U. S. attorneys: "We are disinclined to act instantly."

Rubinstein, who fled Russia with his family in 1918, has been fighting deportation for nearly 10 years. The present proceeding—he won in the first one—is based on his conviction in 1947 for dodging the draft.

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