

University Of California Unveils Mammoth Atom Smasher; New Fields Open

By RENNIE TAYLOR

BERKELEY, Calif. (AP) — The greatest thing yet in atom smashing—a mammoth machine which will lead scientists onward into the exciting mysteries of the atomic nucleus—was unveiled today at the University of California.

With this electronic giant scientists may turn up some more surprising discoveries such as those which led to the atom bomb. A vast new field for deriving energy from matter is among the possibilities.

Although scientists had to learn something about the nucleus to make the A-bomb, they still don't know much about it. To find out more they must build the atom more thoroughly than ever before.

Reserve Units Up In Oregon

As a result of the intensive efforts to bring the U.S. Army Reserve units in the State of Oregon up to "maintenance strength" to assure their continuation after the March 31 deadline, 58 officers and 200 enlisted men have joined Oregon Army Reserve units since January 1, 1954, according to Col. Alfred E. McKenney, Chief of the Oregon Military District.

A total of 553 officers and 749 enlisted men are now serving with Oregon Army Reserve units, Colonel McKenney stated. Of this total, 30 officers and 8 enlisted men are serving with U.S. Army Reserve units in Klamath Falls.

"The interest shown by the citizens of Oregon in helping to maintain a strong defensive organization in event of attack against this country is very commendable," Colonel McKenney said. "There are still a number of openings in all units in Oregon, however, and many opportunities exist for both reserve officers and enlisted men to join in the training program to assure a strong well-trained civilian-military backlog capable of being quickly mobilized and able to take their place alongside the standing regular army units in case of a national emergency."

PILOTS STRIKE

BRISBANE, Australia (AP) — A 12-hour strike by airline pilots Wednesday failed to delay movement of Queen Elizabeth's two and a half tons of luggage and 22 members of her staff to Adelaide. The pilots, striking throughout Australia in support of their demands for more pay, made an exception for the Queen's gear and her retinue to the south Australian capital.

shaped affair of steel and copper 135 feet in diameter and 14 feet high—the largest nuclear research instrument in existence.

It weighs 10,000 tons, about the weight of an ordinary-sized U. S. cruiser. It cost \$17 million dollars and was financed by the Atomic Energy Commission.

Six years were required to design and build the machine. The actual construction required four years.

A month ago the machine was cautiously started for the first time. It whipped up a thin beam of atomic projectiles to a feeble 20 million volts. Gradually it was accelerated until on March 12 it produced atom bullets of five billion volts in energy.

The previous record was 2.3 billion volts, made by the cyclotron in the AEC laboratory at Brookhaven, N. Y.

When scientists were smashing atoms in the days preceding the atomic energy era the only known nuclear particles were protons, neutrons and electrons. Out of that limited picture of matter eventually came the discovery of uranium fission and the bomb.

As the atom-smashing machines in Berkeley and elsewhere increased their power the atom was smashed more devastatingly, until now there are some two dozen known nuclear particles.

And the end is not yet. Many of these particles have a lifetime of only a few millionths of a second, then they change into something else. Or one of them changes into two or more others. There is no certainty as to what the really unchangeable fundamental particles are that constitute matter.

The bevatron may settle some of this uncertainty. When the fundamental parts of the atomic nucleus are known, researchers will know better what they can do with the pieces. With the bevatron they now are entering an "anything can happen" era.

For the next three weeks or so the bevatron will be given its "shakedown" tests, then will go to work on experiments.

Its main job will be to produce cosmic rays where they can be studied under laboratory conditions.

Man Asked To Contact Police

The local police would like to contact the man, who on the afternoon of March 11, purchased a box of tools from a red haired man at a service station on South Sixth Street.

According to police the man with the tools was parked in a two-tone grey Buick with California license plates, and the purchaser paid \$7 for the tools.

If the buyer sees this story, he is asked to please contact the police department.



"MISTER ROBERTS" the most famous of all comedies about naval life, is to be presented at Mills School Auditorium, Saturday night, March 20. Curtain time will be 8 p.m. The play, had an extraordinary run on Broadway and is rated as one of the most sensational hits in theatrical history. It will be presented by a New York Drama Guild cast, under auspices of the Klamath Falls Business and Professional Women's Club, which brought a series of three plays here this year. The above picture depicts a bit of time aboard a naval vessel, which seems to have put navy public relations officers between the devil and their habitual element, the deep blue sea.

Group Hears C.A. Sprague

PORTLAND (AP) — Charles A. Sprague of Salem said Tuesday that the Multnomah County delegation that had added responsibilities at the next session of the Legislature.

Sprague, a former governor of Oregon, told the Purchasing Agents Assn. that reapportionment will increase the size of the delegation and consequently its responsibilities.

He said the state has been operating on a financial surplus which is being used up at the rate of about 10 million dollars a year. The surplus will be gone in about three years at that rate, he said.

He listed several other problems confronting the state and made these comments:

Power: The federal government should define its role in the "partnership policy" before any measures are adopted.

Water: As the Northwest develops, there will be competing demands from irrigation, power, fishing, recreation and navigation interests. Yet there is no authority in the state which can grant preferred use for water.

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Fuel Lines Being Built In Europe

By CHARLES C. LANE

PARIS (AP)—The Atlantic Allies are building the biggest fuel pipeline system the world has ever known.

"An immeasurable ace in the trade," is the way one official described the pipelines.

"Aside from a few synthetic gasoline plants in Eastern Germany," he said, "the Russians must haul most of their fuel from the Baku region on the Caspian Sea, which is more than 2,000 miles by rail from central Germany."

This source—who declined use of his name—others reported:

The pipeline project will embrace about 4,000 miles of 4 to 12-inch pipelines in nine European countries. When the three-year project is completed about two years from now its cost is expected to be about 210 million dollars.

U. S. share: 42.88 per cent, as in all of the current North Atlantic Treaty organization defense installation construction programs.

The pipelines, including the line the United States is building from the Atlantic Coast across France to near Germany, will be able to pump 10½ million gallons of fuel per day. Just to fill the pipelines and storage tanks will take 396 million gallons of gasoline and jet fuel costing \$29,600,000.

"To be able to start a shooting war the Soviet forces would have to build up tremendous gasoline and jet fuel stockpiles nearer Central Europe, and we would know about these stockpiles," an

informed source said.

The crucial strategic role of a pipeline system can be seen, the experts said, when it is realized that liquid fuel comprises 80 per cent of the total tonnage of supplies—everything from bandages to bombs—required by an army in modern warfare.

The 14 NATO nations decided to build the pipeline system be-

cause existing rail facilities could

not possibly carry the load and

the pipelines would be cheaper

than building up the rail facilities.

In most of the nine European countries, the lines will run from

ports (usually located as far from Russia as possible) to storage

centers and groups of airfields.

"The pipeline system is a pure

piece of defense equipment," an

informant said. "It's peacetime value is virtually zero—except in as much as it helps preserve the peace. But we need it because if there should be another war we don't count on being able to stockpile fuel."

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