PUBLIC HEALTH

# **Wool Radioactivity Very** Slight and Not Alarming

➤ WOOL FROM U.S. lambs is slightly radioactive but the fallout from atomic bombs seemingly plays a very minor role. Although wool gives off gamma radiation when sheared, most of the activity is contained in the lanolin that is removed when the fiber is processed.

Two teams of scientists, one from Argonne National Laboratory, Argonne, Ill., and the other from the University of Illinois, traced an unidentified radiation from U.S. wool. In the British science journal, Nature (Dec. 16), they report that it is quite natural and due to the potassium contained in the sweat of the lambs. In the tests of 1960 wool, there was little evidence of any effect from Soviet atomic bombs.

The Argonne scientists were S. S. Brar, P. F. Gustafson and M. A. Kerrigan. The Illinois College of Agriculture team consisted of B. C. Breidenstein, U. S. Garrigus and W. R. Usborne.

• Science News Letter, 81:15 January 6, 1962

**TECHNOLOGY** 

# **Atomic-Powered Buoy Now Sending Signals**

➤ THE WORLD'S first atomic-powered buoy is now sending out signals from Curtis Bay, Md., southeast of Baltimore, Power for the test buoy is generated by a thermoelectric system developed for the Atomic Energy Commission by Martin Marietta Corp., Baltimore.

The buoy is powered by a SNAP-7A generator, which is the seventh in a series of Systems for Nuclear Auxiliary Power under development for land, sea and space. The SNAP generator is fueled with strontium-90, converting the isotope's heat energy directly into electrical energy, which is then used to recharge the battery. Estimated life of the ten-watt SNAP system is ten years.

• Science News Letter, 81:15 January 6, 1962

MEDICINE

# Research Offers Hope For Heart, Cancer Ills

➤ AN EARLY breakthrough toward control of heart disease and cancer is seen in research that will be supported by the National Institutes of Health, Bethesda, Md.

The past ten years' accomplishments through NIH-sponsored research in the cause and cure of these and numerous other diseases are reviewed in Science, 134: 2017, 1961, by Drs. Dale R. Lindsay, chief of NIH's division of research grants, and Ernest M. Allen, associate director for research grants.

The past ten years' research supported by this and other granting agencies has played an important role in the fall in death rate and rise in life expectancy that have occurred in the same decade.

The NIH budget has now been increased to more than half a billion dollars annually.

The NIH supported 10,700 projects in universities and other research institutions in 1960, out of a national total estimated at 38,500 projects. From NIH-supported research has come such discoveries as a treatment for rheumatoid arthritis, and the synthesization of ACTH, a protein hormone containing 23 amino acids. The cure of a rare form of uterine cancer occurring during pregnancy was also announced by NIH researchers as a result of treatment with the drug methotrexate.

Other research has strengthened the view that viruses may be one of the causes of human cancer.

A molded plastic replica of a normal heart valve has been constructed and used successfully to replace a diseased valve in man, and genetic information and valuable basic research have been among recent accomplishments.

• Science News Letter, 81:15 January 6, 1962

SEISMOLOGY

## **Most Destructive Quake** In More Than a Year

➤ THE MOST destructive earthquake in more than a year and a half hit Colombia Dec. 20.

The last quakes that seriously endangered human lives and property also occurred in South America, namely the series of quakes that devastated Chile in May, 1960.

The Colombian quake registered at Pasadena Seismology Laboratory a magnitude of 6.7, the U.S. Coast and Geodetic Survey seismologists in Washington, D. C., reported. During the Chile catastrophe the largest earthquake recorded was of magnitude 8.5, which was greater than that recorded during the San Francisco earthquake (8.3) in 1906.

The Survey said the epicenter of the Colombian quake was located about five degrees north and 76 degrees west, near the coast close to the small town Riosucio (Dirty River), located in an agricultural region having about 50,000 population.

About a dozen cities and towns were reported affected by the quake. The quake shocks damaged homes and buildings in Bogota, the Colombian capital, more than 300 miles from Riosucio.

• Science News Letter, 81:15 January 6, 1962

PUBLIC HEALTH—How many live births were registered in the U.S. during 1960? p. 7.

SPACE—How far above the earth will two electrical ion engines be tested in 1962? p. 5.

TECHNOLOGY-How many words does the memory of the IBM 7090 computer have? p. 5.

Photoraphs: Cover and p. 10, Fremont Davis; p. 3, Industrial Acoustics Company, Inc.; p. 5, National Aeronautics and Space Administra-tion; p. 7, Sperry Rand Corp.; p. 16, Consolidated Molded Products Corp.

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