

Science Gives Explorers True Seven League Boots

Washington — Exploration of earth's wildest reaches is a changing craft, far different in method and goal from any previous age of adventure.

Great resources and technical wizardry alter not just the art but the very nature of exploring. Man has donned science's seven league boots, and his stride has become a giant's.

In the next three years a large part of Antarctica will be seen, crossed, and mapped for the first time in a scientific assault on the last unknown continent. It will be done as part of a world-wide research effort—the International Geophysical Year—and in ways that Amundsen and Scott, struggling toward the South Pole 44 years ago, could not even have dreamed.

Antarctic Crossroads

Across the Antarctic's icefields which drains, the strength of sled parties, a British expedition plans to drive in motorized snow vehicles, refueled by air drops, towing sled trains behind them.

At the South Pole, if all goes as planned, the British will find an American scientific base and perhaps an airfield. A New Zealand party coming from the other side of Antarctica will lay down supply dumps. Radio will link bases of half a dozen nations. Men will move to and from the southern continent by both sea and air.

Robert E. Peary took 11 years and three expeditions to cross the 396 miles from Greeley's farthest north to the North Pole. Today, near the same Greenland Eskimo village from which Peary drew sled dogs and drivers, stands the giant Thule air base. Planes fly to the Pole almost daily.

The airplane itself, perhaps the greatest tool ever given to explorers, has entered new horizons. Richard E. Byrd made history when he flew to both poles. Today a commercial airline flies a regular route across the Arctic Sea: Los Angeles to Copenhagen, via Thule, in 22 hours.

With modern aerial cameras, radar, long-range radio navigation (loran), and planes of tremendous range, regions that might never be completely explored on land can be systematically photographed and mapped by air, and even prospected for underground minerals or fuels by electronics.

Exploration by Rocket

Automatic cameras sent aloft in high-altitude rockets scan areas hundreds of miles across on the face of a curved earth. Telemetering devices record temperatures, winds, and electrical conditions, radioing the readings back to the ground.

Beneath the seas, new sonic exploring devices and even manned diving chambers cap-

able potentially of reaching the bottom of the deepest known ocean area extend man's ability to explore his world. The depths of the seas represent a modern frontier still scarcely crossed.

Astronomers stand among today's explorers. This year the most extensive mapping project in history, covering three-quarters of the entire visible universe, is being completed with the wide-angle Big Schmidt telescope in the seven-year National Geographic Society-Palomar Observatory Sky Survey.

Nearer home—that is, only 35,000,000 miles away—the Society and Lowell Observatory are employing the methods of astronomy to explore the planet Mars. Recently, they found a new green Martian area almost the size of Texas.

Margaret Truman's Story May Be Made Into Movie

Hollywood — (U.P.) — Margaret Truman's serialized life story running currently in a magazine may be the basis for a motion picture with the former President's daughter playing herself in the film.

MGM and 20th Century Fox spokesmen said they were reading advance copies of the story, "Souvenir." One studio spokesman said Miss Truman may be asked to test for the lead in the picture if a decision is made to produce the movie.

"But it would be highly premature to say we will ask Mr. Truman to play the piano," the spokesman said.

Knitting, Crocheting Said Form of Relaxing

Orono, Me. — (U.P.) — Knit or crochet if you want really to relax.

That's the advice of Harry Smith, 76-year-old retired farmer, who has been knitting for 70 years.

Smith believes that knitting and crocheting offer relaxation to both mind and body and are beneficial to health.

Lately Smith knitted sweaters as Christmas presents for his five great-grandchildren.

Prison Sentence Meted For Falsifying Accounts

Portland — (U.P.) — Mrs. Nellie J. Hollenbeck, 55, now of San Diego, has been sentenced to 18 months in prison after she pleaded guilty of falsifying accounts of a lumber firm.

Partners in the Standley Brothers Logging Co., Powers, Ore., have pleaded innocent to federal income tax charges and will stand trial in March or April in Medford.

MEDFORD MALL TRIBUNE

Second Section

MEDFORD, OREGON, THURSDAY, FEBRUARY 23, 1956

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Atomic Energy Heating System Passes Big Test

Richland, Wash. — (U.P.) — The atomic energy heating system at the Hanford Atomic Works has passed its first real test in a warm breeze.

Scientists said recent prolonged cold weather gave the system a "real challenge," but that it kept buildings comfortably heated throughout the period to mark an important milestone in the development of peaceful uses of atomic energy.

They estimated the system will save \$59,000 a year in fuel costs at the sprawling plutonium plant. Initial investment in the system was \$614,000, some \$444,000 more than a conventional heating plant would cost, but scientists said the savings in fuel costs would pay for the added initial expense in seven and a half years.

The system utilizes the tremendous quantities of heat generated by the atomic reactors. The heat previously had been wasted. General Electric Co., which operates Hanford for the Atomic Energy Commission, said several buildings were being heated with the new system and that the heat used would supply more than 1,000 average size homes.

Scientists said England had developed an atomic heating system but not of the gigantic proportion of the Hanford heater. The Hanford system works like this:

Water from the Columbia river is pumped through Hanford's plutonium reactors. In cooling the reactors, the water absorbs immense amounts of heat and picks up some radioactivity. The reactor-cooling water is pumped to a heat exchanger where it transmits the heat to an ethylene glycol water solution which transmits the heat to air conditioning systems.

Portland — (U.P.) — The Oregon National Guard gained 1034 new recruits during its "Operation Muster" recruiting drive, Maj. Gen. Thomas E. Rilea, Oregon adjutant general, said today.

The highest point in Ohio is 1,550-foot Campbell hill, near Bellefontaine.



GIVING TONSILS A WORKOUT, Striker Lou Tempura tells off police as they move him to neutral territory during violent outbreak at Republic Aviation Corp. plant, Farmingdale, N. Y. Machinists are striking in pay dispute. (International)

Police Follow Clue of Manhattan Bomber

New York — (U.P.) — Police today followed up what may be their best clue yet to the identity of the Mad Bomber of Manhattan who exploded his latest bomb yesterday in a Pennsylvania Station men's room, injuring an elderly attendant.

Detectives who have searched in vain for the bomber since 1940 rounded up a number of suspects hoping to find two men who were in the washroom yesterday when the bomb exploded in a toilet bowl.

Parts of the bomb were identical to those of exploded and unexploded bombs found in Pennsylvania Station and other public places since 1940, police said. Detectives said there was no doubt it was the work of the Mad Bomber.

Similar bombs have been found in Grand Central Terminal, the Public Library and several Broadway area movie theaters. Some have exploded, some have not.

Wilmington, Calif. — (U.P.) — Lumber was unloaded from a ship in Los Angeles Harbor today for the first time since a strike tied up 10 coastal lumber schooners 20 weeks ago.

Keck Contribution To Ike Committee Eyed

Washington — (U.P.) — The special Senate committee investigating the Case incident was understood today to be checking into a report that oil man Howard B. Keck really made a contribution to the National Citizens for Eisenhower committee.

A spokesman for the committee in New York denied any knowledge of such a contribution. He said a check of committee files, listing contributions of more than \$100, showed no record of a contribution from Keck. The committee worked for President Eisenhower's elec-

tion in the 1952 campaign and was re-constituted in January. Keck is president of the Superior Oil Company of California. His campaign contributions have been under scrutiny by a special Senate committee investigating a \$2500 contribution that was offered to, and rejected by, Sen. Francis Case (R-SD) during Senate debate on the natural gas bill.

McMinnville — (U.P.) — Increase in tuition rates of \$10 per semester at Linfield college here has been announced by the college board of trustees.



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