

Thirty-First Year

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RADIO ROBOT WILL DISCLOSE SECRETS OF STRATOSPHERE

Australian Scientists See Possibility of Exploring High Levels by Means of Newly Developed Device

SYDNEY, Australia (UP)—Radio experiments just completed by Dr. D. F. Martyn and O. G. Pulley of Sydney university have demonstrated the possibility of exploring the entire stratosphere for a distance of 150 miles above the earth without the necessity of further dangerous ascensions.

Except for the possibility of ascertaining whether the stratosphere constitutes a medium for speedy aerial travel, the two Sydney scientists are convinced that all necessary information about the earth's upper atmosphere can now be obtained from the earth itself.

Under the system invented and thoroughly demonstrated by Dr. Martyn, the upper air can now be probed by radio signals.

His new method gives accurate data on the amount of electrification, the amount of ozone, and the temperature throughout the whole thickness of the upper air from 22 up to 150 miles.

Robot Does Work The new type apparatus which Dr. Martyn has perfected consists of a robot that sends out signals, catches the echoes, varies the wave lengths and plots all the information obtained on a tiny chart.

One of the first discoveries made by Dr. Martyn with his new invention was that there is still another cold layer of air far above the stratosphere cold layer recently reached by Russian and American balloonists. Between the two cold layers there lies sandwiched a warm layer, and it is in this latter that Dr. Martyn thinks that stratosphere flying might become a possibility.

According to the radio records made by Dr. Martyn, temperatures again dip in the second stratosphere above the warm ozone layer, reaching a minimum at 80 miles above the earth's surface.

From these upward the temperatures increase till they end in a torrid zone at 150 miles of altitude.

Former Theory Upset On this latter heated zone, Dr. Martyn's radio reports contradict the belief of Professor Appleton, who was convinced this zone was not only in summer, Martyn's experiments show that the seasonal drop is only from 1,300 to 1,600 degrees.

As a consequence, Dr. Martyn declares, that the earth is perpetually girdled by a fiery ring of inconceivably rarefied air, in which, necessarily, no human activity could ever be hoped for.

Measurements of the upper ozone show fluctuations exactly corresponding to barometric measures on the ground, but antedating them. As a consequence weather forecasts, Dr. Martyn declares, can be made from these radio probes of the air.

Australian authorities are so impressed with Dr. Martyn's findings, that modern ozone measuring are now being installed at the Commonwealth weather bureau, the Solar observatory at Canberra and at the installation of the Council for Scientific and Industrial Research.

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Japanese Girl Slain



Midori Takaoka (above), 25-year-old Japanese stage beauty, was slain at her Los Angeles home. She ran screaming from the house and plunged face downward on the lawn, her throat slashed with a butcher knife. Police sought a white suitor for questioning concerning the slaying. (Associated Press Photo)

HAVEN OFFERED BY LIBERIA TO NEGROES OF U. S.

MONROVIA, Liberia—(UP) Liberia definitely favors the repatriation of negroes from the United States, according to a statement made here by President Edwin Barclay. The republic's established principle is that it shall always be an asylum for those of African descent.

The statement came as a result of many inquiries received by President Barclay and the American minister here, after the Virginia legislature recently memorialized the United States congress to permit the colonization of 400,000 American negroes who had petitioned President Roosevelt for government assistance in migrating to Liberia.

President Barclay said he had received an inquiry from a large Negro organization of Chicago's south side, whose aim is "to return people of African descent to their motherland, Africa." Mrs. M. M. L. Gordon, president of this organization, asked President Barclay whether published reports were true that he is not in sympathy with the proposed wholesale influx of Negroes.

He denied this report and said the only persons not desired in Liberia were opportunists and political agitators. Since Liberia is self-governing, he said, he would be compelled to take a definite position regarding the coming of organized groups having as their object the making of the country as a base for international antagonisms.

The type of Negroes that are welcome in Liberia, said President Barclay, are skilled artisans, trained agriculturists, business men with capital, and young physicians willing to go into the interior and develop the aborigines. He advised that all prospective immigrants communicate with the Liberian government before making final arrangements for sailing.

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BRITISH EXPAND TRAVEL SERVICE FOR TRADE GAIN

LONDON (UP)—British railroads have spent in excess of \$5,000,000 during the past three months to extend and accelerate facilities for summer travel business.

Equipment which has been overhauled includes 20,185 steam locomotives, 1,507 electric locomotives, and 100 steam and 14 oil rail cars.

Railroads are operating 843 restaurant cars and 82 buffet cars. British railroads have 77 hotels. There are 6,754 passenger stations along the 19,287 miles of British lines.

The penny-a-mile, third-class return tickets introduced last year are being retained with extended privileges. Other cheap fares and excursions are to be offered.

British railroads also operate 140 steamships with a total gross tonnage of 182,873 between Great Britain and the continent, Irish Free State, northern Ireland, Channel islands, Western Isles of Scotland and the Isle of Wight.

Regular routes operated by Railway Air Service will be increased to 62, compared with 42 last year. The 500,000 miles flown last season are

expected to be doubled this year. Services are confined entirely to the British Isles.

New routes, on which large luxury air liners will be used, link Inverness, Perth and Glasgow; Glasgow and the Isle of Man; Belfast and the Isle of Man; Bristol and Cardiff; Leeds and Bradford; and the Isle of Wight and Brighton.

Flying times will be reduced, making it possible to travel by air from Manchester to the Isle of Man in 30 minutes and from Liverpool to the Isle of Man in 45 minutes.

Railway Air Services offer tickets which permit the traveler to make the entire journey by air, or to use part air and part rail and steamer. Passengers holding a return railroad ticket may pay a slight supplement and travel by air, special discounts off the air fare are allowed railroad season-ticket holders on routes which also have airplane services.

Combined surface and air travel facilities are being offered at lower rates this season.

BOTH WRESTLERS OUT WHILE COUNT TOLLED

CHICAGO, Aug. 14—(AP)—Keepers of the heavyweight wrestling archives debated today whether the records of Ivan Tsupurin and Hans Schnabel should show a mutual defeat or a double victory.

The exchanged right hand punches during their match last night at the Arcadia Gardens, flopped simultaneously to the canvas and stayed there while Referee Sam Clapham tolled off the ten count.

IOWA FARMERS HELP TO START LABOR COLLEGE

TABOR, Iowa (UP)—Seventy-five freshmen are expected to enroll next fall in Tabor college, where boys and girls must work part time to obtain their education.

The college is being established in buildings of old Tabor college, abandoned a decade ago, and a 35-acre farm has been purchased to provide work for students and food for the school table.

Farmers in the vicinity were eager to see the new self-help college established, and contributed liberally of pigs, calves, brood sows and dairy cows. Seed for 10 acres of vegetables also was provided, and 40 acres will produce alfalfa, sweet clover and oats.

To obtain board and room, boys will help with farm work three hours a day. Girls will help prepare meals and wash dishes in the dining hall.

The musty old buildings of the abandoned institution will be reconstructed, as part of the comprehensive work project to be undertaken by students.

The president of the college, Clark Howard, is a war veteran and Methodist pastor. His veteran friends in Sidney, Iowa, contributed \$300 toward

the college, and several other Legion posts have made donations.

Hanford McNider, Mason City, Iowa, former national commander of the American Legion and minister to Canada under President Hoover, is on the institution's board of directors.

General operation of the local college will be similar to that of Antioch college in Iowa, Park college in Missouri, and Dana college at Blair, Neb., three widely known self-help colleges.

Seven well-known educators will comprise the faculty. President Howard has announced.

COOS COUNTY FOREST CLOSED TO VISITORS

SALEM, Ore., Aug. 14—(UP)—Because of a high fire hazard, Governor Martin closed 50,000 acres of timberland in the Siskiyou national forest, Coos county, on recommendation of state forestry officials.

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