

# Russian Scientist Describes Two Major Events in Physics Field

Editor's note: The following dispatch has been written exclusively for United Press by one of Russia's foremost scientists. He is Dmitri Skobeltsyn, since 1951 director of the Institute of Physics in the USSR Academy of Sciences.

By **DMITRI SKOBELTSYN**  
Written for United Press

Moscow — The year 1957 has been marked by two major events in the history of Soviet science, particularly in physics. One was the creation and launching of the first and second Sputniks which caused a stir throughout the world.

The second concerns a completely different set of problems and is also of international importance. I refer to the commissioning of the 10 billion electron volt proton-synchrotron or accelerator at Dubna on the outskirts of Moscow. Last April the accelerator, the only one of its kind in the world, produced proton particles with a record energy of 10 bev (billion electron volts). These are in effect artificial cosmic rays.

The particles provide science with new tools for delving deeper into the secrets of the atom's nucleus. To obtain them, it was necessary to build a tremendous ring-shaped electric magnet weighing 36,000 tons.

**Better Than Ours**  
The giant new accelerator surpasses two similar installations operating in the U.S. in size and energy of its particles. It is a great landmark in the history of science. And the launching of

the two Sputniks opens new paths for science.

Complex machines such as the accelerator are being built to study the phenomena in a field that may be called the "micro-world"—a world of inconceivably small space and time. This is the world of the recently discovered particles of matter, the so-called mesons, hyperons and "anti-particles."

On the other hand, the appearance of the Sputniks equipped with various instruments was the beginning of a new era in the study of the cosmos.

Cosmic rays are a stream of nuclear particles, accelerated to tremendous speeds, which constantly penetrate the borders of the earth's atmosphere. These are mainly protons whose average speed in this area equals 10 bev—the same as in the proton synchrotron we have now built.

**Source in Space**  
This stream of particles, whose sources are located somewhere in the innermost depths of cosmic space, contain not only nuclei of hydrogen atoms (protons) but also atomic nuclei of a number of other light energy particles.

Physicists have long been using such natural high energy particles in tiny quantities to observe the phenomena of the micro-world. The giant accelerators now make possible detailed study of these phenomena because they are a terrestrial

source of artificial cosmic rays. A thorough study of primary cosmic rays can bring science extremely valuable information on the origins of these rays, especially from observation of the fluctuation and variation of the streams' intensity.

**Distorts Picture**  
Observations carried out by instruments in the atmosphere are inadequate because even the comparatively thin atmospheric layer which separates these instruments from cosmic space distorts the entire picture in many ways.

This is where the Sputniks come in. By penetrating beyond the limits of the atmosphere into cosmic space they have opened up entirely new vistas for cosmic research. The first observations of the cosmic rays by instruments in Sputnik II have already been received and will soon be deciphered and studied.

The past and future observations of cosmic rays and other radiation in cosmic space are only the beginning, and only part, of an extensive program of scientific research which the Sputniks will make possible.

In the future, and perhaps not too distant future, we will be able to test a number of physics problems of fundamental importance such as Einstein's general theory of relativity.

## Liquor Stores Set Holiday Closures

Portland — The Oregon Liquor Control Commission said today its stores would close at 6 p.m. on New Year's eve.

The action followed an earlier decision to close liquor stores at the same hour on Christmas eve.

The OLCC said its refusal to consider applications to license sale of package beer within the "dry zone" around the University of Oregon campus in Eugene was based on a six-year-old agreement among the Eugene city council, university officials and the OLCC to maintain the dry zone.

The Eugene city council had approved on Nov. 12 the application by four grocery stores in the dry zone for package beer licenses.

Hugh Kirkpatrick, OLCC chairman, said the commission believed no change in the agreement should be made unless all three parties were in favor of it. University officials voiced opposition to the beer outlet licensing.

In other action the OLCC set Dec. 27 for hearing on a proposal to permit taverns to serve beer in pitchers for consumption on the premises. Also to be considered will be liberalization of rules regarding advertising of alcoholic beverages.

## Douglas McKay Turns Down Bid To Head Veterans Administration

By **A. ROBERT SMITH**  
Mail Tribune Correspondent  
Washington—The White House called Douglas McKay a few days ago and asked if he were interested in being appointed head of the Veterans Administration.



Harvey V. Higley, present administrator of VA, has tendered his resignation and is anxious to return to private life in Wisconsin. McKay visited Higley at the VA headquarters last week to discuss the problems of the agency, then formulated his answer.

"If I were a younger man, I would be interested," said McKay. "But I'll be 65 next year. That's a job for a younger man."

The White House wasn't exactly offering McKay the job.

## Truck Operators Bring Charges

Portland — Hearings on charges of unfair practices brought by the Truck Operators League of Oregon against Teamsters Local 324 were opened Wednesday by the National Labor Relations Board.

The complaint results from a recent strike of Teamsters in Salem against three beer distributors in which secondary boycotting was charged.

The Truck Operators League, an association of common carriers, said its members were caught in the middle when the beer distributors called on them to by-pass their own idled trucks.

The League claimed that under a recent ruling the common carriers were liable in court for failure to deliver under such circumstances. The League also claimed that Teamsters prevented them from delivering beer by instructing common carrier drivers to respect picket lines.

The case was settled Sept. 24, but spokesmen said the League would like the NLRB to rule on the issue, setting a precedent for any similar cases that might arise in the future.

## CATHOLIC BISHOP DIES

Leiria, Portugal — Roman Catholic Bishop Jose Alves Correia Da Silva, 86, who declared the apparitions of our Lady of Fatima worthy of belief in 1930, died here today after a long illness. Correia Da Silva began his investigation of the apparitions in 1917 shortly after they were reported by three shepherd children in Cova Da Iria, a village in the bishop's diocese. The virgin reportedly confided three "secrets" to the children and they told one of the secrets to Correia Da Silva.

tensive injuries in an automobile accident a year ago last March.

## St. Louis Pastor Churches President

St. Louis — The Rev. Dr. Edwin T. Dahlberg, 64, pastor of the Delmar Baptist Church of St. Louis, today was elected to a three-year term as president of the National Council of Churches.

Dahlberg is the first Baptist to hold the highest elective office in the U.S. protestantism. He succeeds Dr. Eugene Carson Blake of Philadelphia, a Presbyterian.

The St. Louis pastor was elected without opposition at the council's triennial General Assembly, attended by 2,000 delegates from 30 member denominations.

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## HILTS Wissenbacks Have Daughter

By **MRS. M. F. CAVIN**  
Hilts—A daughter was born to Mr. and Mrs. David Wissenback

Nov. 13 at the Ashland General hospital. She has been named Bonnie Kay and weighed 7½ pounds.

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## CALENDAR

Calendar notices and news for the society section of The Mail Tribune must be submitted in writing and deadline for the Sunday edition is 1 p.m. Friday. Deadline for the weekly calendar is 9 a.m. of the day of publication and for week day news is 5 p.m. the day before publication.

**Thursday**  
7:30 p.m. — Welcome Wagon club, home of Mrs. Kenneth E. Shuler, 1036 Queen Anne avenue.

7:30 p.m. — Lively Rogues, Rogue Valley Country club.

8 p.m. — Adare chapter, Jacksonville Masonic temple.

8 p.m. — Royal Neighbors of America, Pythian building.

8 p.m. — Southern Oregon Stamp club, Girls Community club.

8 p.m. — Phoenix PTA, grade school gymnasium.

**Friday**  
10 a.m. — First Christian church bazaar and smorgasbord, fellowship hall.  
12 noon — Phoenix Thimble club, home of Mrs. Guy Cobleigh, 401 Church street.  
2 p.m. — Phoenix First Presbyterian church Women's association, bazaar and supper at church.

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