

Russian Physicists Repeating Western Experiments, Traveler Says

Editor's note: The following dispatch, the fourth of a series of five, is an excerpt from the diary of Dr. Louis Alvarez, noted American physicist who visited the Soviet Union last May. It was obtained by courtesy of the publication "Physics Today."

By DR. LOUIS W. ALVAREZ
Distributed By United Press
The high energy physicists (in Russia) are repeating all the experiments done in the Western world and extending them to the higher energies available at the Voiga Lab.

Their work appears to be very well done, with good accuracy, on excellent equipment.

The big question mark is this: Of the huge pool of technically competent people, what fraction will be able to do original work when they have completed their big program of training on previously done experiments.

Although I heard of some very novel and even brilliant ideas in the field of nuclear machine design, I didn't see or hear of a single new idea for an experiment in nuclear physics. I feel sure that some of the new crop of experimental physicists will be able to think of ideas for new experiments, but I don't know how favorable the climate will be for them to try them out.

May Be Halted
The Russians operate on the German system with one "professor" per institute. If the professor isn't receptive to the ideas of the younger men in his institute, he can keep them from doing original things.

With the great financial rewards for success, it is possible that the spirit of cooperation between men in a particular institute may be hurt by jealousies.

My guess is that there are at least a few really good physicists but that the "trade school" type of training they receive may hurt the development of originality.

... no director can think of everything so he must trust his young people to try their own ideas, even if most of them are no good.

About 60 of us visited Mescherakoff's Institute where the 680 million volt cyclotron is. It is the most powerful cyclotron in the world, but it will be only a few months more until the Berkeley University of California machine will be running at 720 millions.

High Quality Work
We were all bowled over when we saw the cyclotron itself and all the experimental apparatus which was set up for business.

The workmanship on all parts of the cyclotron was of the very highest quality.

I have seen all the large American cyclotrons and this is better engineered than any of ours.

But even more impressive than the accelerator itself was the amount of experimental equipment, its technical excellence from the engineering and physics standpoints, and the number of experiments set up simultaneously.

After an hour or two at the cyclotron site we drove to Veksel's Institute where they are completing construction of the world's largest bevatron—10 billion volts as contrasted with Berkeley's 6.2 billion.

The machine looks very much like ours but weighs 35,000 tons instead of our 9,000 tons. They have done a few things better than we did and a few not so well.

The labs are surrounded by a pair of tough looking barbed wire fences separated by about 20 feet with guards at handy intervals.

Experiment Fizzled
They had a large diffusion cloud chamber to show us but it had apparently just stopped making tracks. They let us look in but we didn't see anything.

I was cheered up to find they are human enough to foul up a demonstration just like everybody else.

We then went to the main control room which is out of this world. It is 60 feet on a side and two stories high with racks of electronic equipment around the walls on both stories.

In the center of the room is a large control desk which NBC could be proud of.

I was taken to the Institute for Heat research which is run by Alikaniaoff. He won the Stalin Prize several years ago and his brother, Alikanian, announced the discovery of a new "elementary particle" at the conference yesterday.

We went to Alikaniaoff's home which is on the institute grounds. It is a beautiful place, well furnished and very large and comfortable.

This is the way the typical big shot scientist lives in Russia. We heard they were privileged members of society and I can certainly confirm that.

Meet Cerenkov
Mrs. Alikaniaoff was a graduate of the University of California.

Blood Test for Drunken Drivers Running Into Trouble in New York

New York—(AP)—This state's "scientific" drunk driving law was threatened today by widespread refusal of doctors to administer its blood test. The physicians' lawyers said the testing can get the doctors in more trouble than the drunks.

Frustrated state police, who have been forced to continue unscientific breath-sniffing and chalk line tests in the absence of blood are drafting a new law they hope will eliminate the legal objection, it was learned.

The problem, according to attorneys for the Medical Society of the State of New York, is in the law itself which blandly contradicts itself in succeeding sentences as to the suspect's rights in refusing to a test.

This leaves a doctor wide open for suit for assault or malpractice if he draws blood from an unwilling or befuddled subject, society counsel William F. Martin said.

Want To Cooperate
The society is on record as eager to cooperate with the state. The doctors are asking for legal assurance that the state will defend them against possible suits and pay the damages if there are any.

Such a law presently protects physicians serving without fee in city hospitals here and elsewhere.

Physicians' own insurance against malpractice suits does not apply under the drunk driving law, Martin said, because no proper doctor-patient relationship exists between the suspect and the testing doctor.

If such a relationship were established, the test would be of no value because the doctor would then be in a confidential relationship to the patient and unable to testify, Martin said.

Doctors have been treating the law warily since its enactment. State police said large numbers of them have refused to administer the test.

The society last spring passed to its legislative committee a resolution calling for suggested legislative amendments. The committee was told this week that the state police already are working on draft legislation and the doctors agree to let it to them, with consultation hoped for and promised.

Contradictory Statements
Martin said the confusion in the law arises from the contradictory statements that: (1) Any person operating a motor vehicle is presumed to have given consent for a chemical test of his blood, breath, urine or saliva, and (2) that if the suspect refuses to submit to the test it shall not be administered.

A doctor can be found guilty of assault, Martin said, if he takes blood from anyone without the subject's consent. And if the subject is unconscious or incapable of rational consent, that could be malpractice.

George M. Searle, assistant superintendent of state police, said the blood test is the simplest and most reliable of chemical tests available. In most cases where a driver refused to submit to a test, he said, he has been found guilty in subsequent hearing.

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Wallows Scanned For Escaped Convicts

Pendleton—(AP)—Search for two escaped Washington state penitentiary inmates centered in the Lookout mountain area of the Wallows mountains of north-eastern Oregon today after discovery of a yellow pickup truck in which they were believed to have fled.

Meanwhile, officers were keeping a lookout for a third convict who fled the prison farm yesterday.

Prison officials identified the third escapee as William Guy Cole Jr., 21, of Wenatchee. He was sentenced to two years in prison, Nov. 30, 1955 for second degree assault.

Cole escaped from the same work farm near College Place that the other inmates had fled a day earlier. Police identified the two escapees who walked away from the work farm Tuesday as Walter Leon Daniels and Orville Maynard Shipp, both serving time from King county.

HORN BROOK
Deer Hunting Reports Good

By MRS. H. H. CHAPMAN
Hornbrook deer season started off with a "bang" last Saturday morning in California.

Friday evening the side roads leading into the mountains took on the appearance of main thoroughfares with men in red hats on the way to their favorite hunting grounds.

The weatherman cooperated this year in contrast to recent years, when the advantage has been on the side of the hunter rather than the hunter. The rain which fell last week lessened the danger of forest fires and softened the crackle of boots on dry leaves as hunters stalked their prey.

After the first three days of buck hunting, it was found that, while no official count was kept, the bag of Hornbrook hunters far exceeded that of any in recent years.

A day at the Pendleton roundup was the highlight of a trip taken by Mrs. Grace Quigley recently. She was accompanied by her sister, Mrs. Carl Lobstein and son Ronald, of Artois, Calif., and Mr. and Mrs. Chester Barton of Horse Creek, Calif. After attending the roundup, they drove to Walla Walla, Wash., then down the Columbia river to Astoria.

They stopped at Hammond, where they visited a cousin of Mrs. Quigley's, Lew Jensen, who lived here many years ago.

Another recently returned traveler is Mrs. Minnie Bloomington who in company with her daughter and son-in-law, Mr. and Mrs. Dick Wyatt and sons Stephen and Paul of Central Point, drove to Colfax, Calif., where she visited a girl friend they drove to Grass Valley to visit friends and to Oakland, where they saw Mrs. Esther Earheart, a former resident of Hornbrook, who lives at the King's Daughters home, Mrs. Bloomington.

WRONG TV
Olean, N. Y.—(AP)—When Philip Molica walked up to his home he noticed his television antenna was missing. He telephoned police. Repairmen for a television service admitted sheepishly they had made a mistake. They were supposed to have removed the antenna on the house next door.

The first silk mill established in the United States was in Mansfield, Connecticut, in 1810. Power looms were introduced in about 1838.

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Business Manager, Editor Resign From Raider Staff

Ashland—Resignations from key positions on the staff of the Southern Oregon college yearbook, the Raider, have left the business manager's and the editor's posts open, according to Hugh Simpson, adviser to the publication.

Peggy Gran, editor, resigned to attend Northwestern university in Chicago this fall. Her fiancé, Don Westrom, sophomore pre-dental student at SOC last year, has received a teaching-fellowship there in the art department.

Monte Robertson, Ashland, resigned as business manager because of a heavy scholastic and work schedule this year, Simpson said.

He said those interested in the posts should contact either him or Bob Myrick, student body president.

Editor Praised
Herb Colley, editor of last year's publication, was praised by Simpson for getting this year's Raider sales under way during registration.

Among salesgirls listed by Colley were Nancy Jennings, Marjo Murray, Colleen Warnock, Medford; Marjie Reed, Sandra Sander, Ashland; Becky St. Clair, Scott's Mills; Mary Thums, Sweet Home; Mary Lou Cook, Janet Craig, Grants Pass; Zela Flanagan, Beatty; Roberta Wade, Klamath Falls; Jill Rice, Coos Bay; Jan Owsley, Lakeview;

Georgia Thomson, Bly; and Marilyn Bailey, Lancaster, Calif.

Colley, in addition to his work on the Raider staff, is a letterman tackle on the Red Raider football team this year. He is married to the former Pat Abbott, Raider make-up editor last year. He attended Crater High school and served in the Armed Forces before entering Southern Oregon college.

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