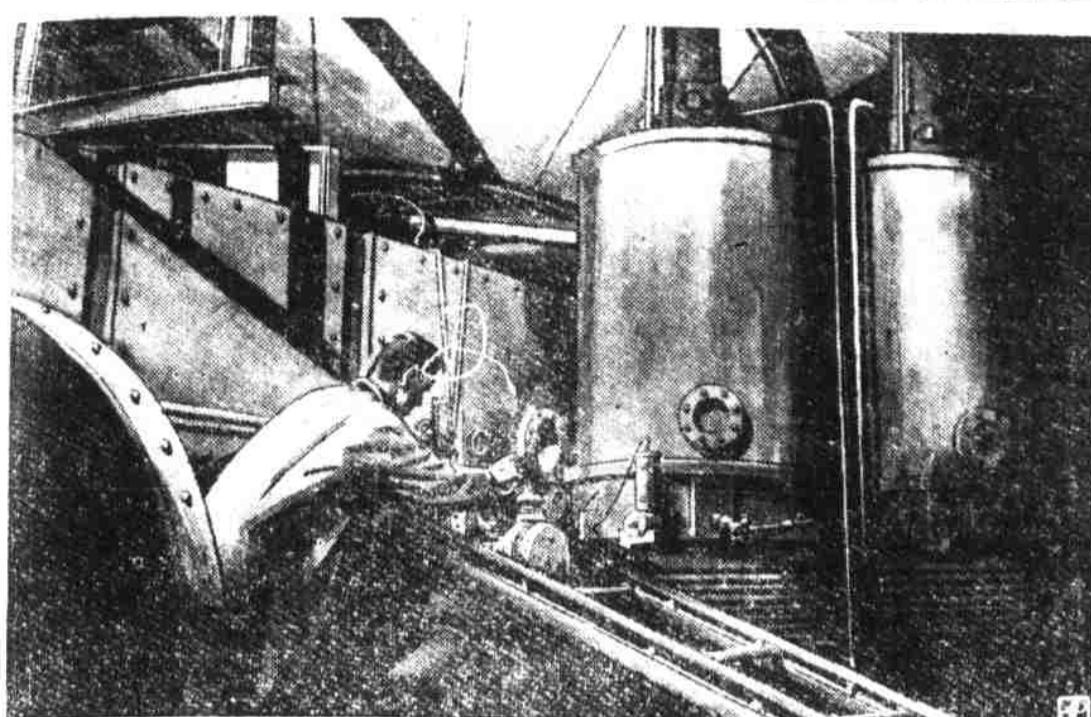


The Waynesville Mountaineer

ENDED MEN SPUR STUDY OF ATOM PERIL



or so of the neutron-producing chamber for a few minutes at a time. The adjuster, of course, does not get into the direct path of the neutron ray but comes within the range of stray neutrons flying out of the chamber. In the course of a year and a half I probably spent a total of not more than 10 hours in this way."

One of Dr. Smith's eyes now is almost sightless and the other is materially impaired. An operation can restore sight. A thick glass lens will take over the focusing job.

The lens is a diamond-shaped, normally clear piece of protein some what larger than the pupil or black center of the eye. It is just back of the pupil, considerably removed from the cornea or clear front part of the eyeball. Surgical removal is a standardized operation.

A little badge containing about a square inch of undeveloped photographic film might have saved Dr. Smith from complications. Everyone who works around electrons and atomic piles now wears such a badge. The films are developed periodically. From the degree of fogging, experts can calculate the amount of radiation.

If the film indicates a person has received more than one-tenth of a roentgen of radiation daily he is kept away from rays for a while, carbon being introduced or other materials taken to reduce absorption. The effects of the machine become less noticeable after the passing of time lower chemical component of the cell

is average daily absorption. If it takes one percent of the amount of radiation ordinarily used to make X-ray pictures of the teeth, scientists of the atom bomb project arbitrarily adopted that amount as the safety limit. They fended over backwards to make the figure plenty low.

Since Dr. Smith did not wear a film badge he does not know how much radiation he took in terms of roentgens. Science knows approximately how much X-ray exposure is needed to produce cataracts, but neutron rays may be more potent in that respect.

Neutrons along with protons make up the nuclei of atoms. A neutron can disrupt a stream of these particles whipped up at speeds of thousands of miles a second. They are particularly destructive in living tissue, say Dr. Hamilton, because they travel in three different ways.

In one case a neutron entering the body may combine with a hydrogen atom in the water part of a living cell. The result is a radioactive atom of heavy hydrogen which eventually breaks down and produces a 2-million volt X-ray particle.

This particle can strike and apparently in insignificant numbers. Ordinarily they are not produced by radioactive chemicals used in medicine and other experimental sciences.

Timber Sale Nets \$181,000 In Pisgah

The Pisgah National Forest in North Carolina reported a total cut of 22,500,000 board feet of timber in 1948. The timber was valued at \$181,000. This is slightly less in volume than the 1947 cut but is greater in value. During 1946, 25,000,000 board feet, valued at \$196,000 were sold.

The Mt. Mitchell ranger district continues to be the leader in timber cut, since nearly 3 million feet were cut in this district. The Pisgah district was second. The average value of timber sold was highest on the Foothills, where all timber cut averaged \$133.69 per thousand feet on the stump. The Little River average was \$7.90 per thousand.

Chestnut is still the most important single species accounting for about one fourth of the total cut. However its relative importance is decreasing rapidly, and it is expected to pass out of the picture in two or three years. Timbers in young hardwood stands will take its place to a considerable extent as a source of timber in the future, a product from the forest, and a source of employment for local people.

Receipts from the sale of timber go into the Federal treasury. However, as in the case of other forest receipts, 25% is returned to the counties in which the forest lies, and an additional 10% is returned to the forest for use on roads and trails.

NOAH NUMSKULL

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ORVILLE MCNAUGHTON ATLANTA, GA.

DEAR NOAH—I IS A DETECTIVE AGENCY A SORT OF SNOOPER, STEALTH SERVICE MARKET? T. V. RUGLES CUMBERLAND, MD.

SOME OF OUR ACTIONS TO NOAH

Republican Blight Hits Family Tree Of Vice President

CHARLOTTE, N. C. (UPI)—Vice president Alben W. Barkley's family tree is full of black sheep—Republican sheep, that is, dozens of them.

This worrisome state of affairs is the revelation of E. Lester Barkley, president of the Barkley clan in North Carolina, to which the Democratic vice president is directly related.

Lester, a 71-year-old retired utility worker, says at least half—and probably a lot more—of the North Carolina Barkleys are untrue to the Democratic cause of son-in-Alben. Even worse, he says they voted that way in the recent election, forcing the family to support the GOP vice presidential nominee.

Have Common Ancestor

The Barkleys are concentrated in western portions of North Carolina where the Republican strength is limited to this mainly Democratic state. They are descended from Alben's great-grandfather, Father Robert Barkley.

Robert was a veteran of the Revolutionary War, making a name for himself in the historic battle of King's Mountain near here, and elsewhere. Since Robert is also a great-great-grandfather of Lester, the vice president is a third cousin of the dear old Barkleys.

For that reason, Lester said, he's not too keen on politics.

"We're all related to him even if the politics is all mixed up," Lester said.

The bluest sheep of all, he said, is the vice president's grandfather, Graham. That relative left North Carolina before the Civil War on the long trek over the mountains to Kentucky. He turned out to be a Republican.

At Reunion Once

Each year the North Carolina Barkleys assemble on the last Sunday of July. Cousin Alben, then senator from Kentucky, attended the 1943 session along with 150 other members of the clan.

Cousin Lester would like to have the vice president back here this summer, but he fears Washington officials will keep him away.

However, Sen. Barkley did find time to put in an appearance at

In Jail Again



FORMER paratrooper Edward J. Lada, 23, who broke through the Berlin blockade to see his girl, is shown back in the stockade from which he had escaped. Lada said he would renounce U.S. citizenship to stay with his fiancée and their child. A native of Newark, N.J., Lada is awaiting a military court-martial. (Associated Press)

A-JEROME, N. C.—During his campaign last fall, in his speech to a group pointed to the large number of his "fat heel" knives.

But he didn't say they were his publications.

Finely chipped pencils cost less a bread-stuffing meal, so when Bayou me about a quarter cup of pencils to two cans of bread, each day old bread.

—Chevrolet

Colleges Are Attempting To Revise Education Standards To Fit Present Atomic Age

By CLIFFORD BLATCH

WASHINGTON. It isn't enough to teach boys to make atomic bombs. You also have to learn how to live with them.

The teaching of the consequences of atomic bombs in college and university courses is to be expanded to include the Human handbooks for the atomic age.

How to live in peace is to be studied by science students in addition to the basic subjects of science, mathematics, literature, history, philosophy, and religion.

In some teachers' colleges future professors are being prepared to guide the next generation through the theory new atomic frontier.

Some theological schools have added new courses on religion and science. Courses in philosophy stress the moral aspects of the development of atomic energy. One professor of religion wrote:

"A renewed emphasis on the need for human brotherhood and the breakdown of segregation of minority groups has come into our teaching with the arrival of the atomic bomb."

"Virtually every institution reporting a change due to recent atomic energy developments," Dr. Blatch related, "indicated that the content of existing courses had been altered to include some discussion, if not formal units, on the new phenomena."

"As one respondent said: 'I doubt that we can name one course that has been added. I doubt that we can name one course that is not affected.'

WELCOME OUTWORN

SEATTLE (UPI)—A local tyro is wondering when he will receive a fourth visit from a customer he has never seen before.

"I don't know when he'll come back," the tyro said. "He's been away for a long time."

The tyro, named many schools, is a man who likes art studies. He is a student at the art school specializing in the field of education. He faces a problem in understanding the new phenomena.

"I am not sure what I am going to do with my art studies," he said.

"I am not sure what I am going to do with my art studies," he said.

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Yes, freedom pays—in the coin of tolerance and understanding, and in the coin of progress and prosperity.

* HELEN HAYES stars in the ELECTRIC THEATRE. Hear it every Sunday, CBS, 9 P.M., EST.

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