

**THE STORY OF THE ATOM**

**No. 9: Hunting for the Rare U-235**



(1) U-235, the form of uranium which can blow itself up, soon became the most important and one of the rarest substances known. Scientists knew if they only could isolate enough to cover the head of a pin they could make a real demonstration of the enormous energy inside the atom. Dr. Alfred O. Nier at the University of Minnesota was credited with isolating the first tangible quantity.

(2) General Electric's research laboratory at Schenectady, N. Y., started work on the problem. There, scientists

were able to isolate U-235 from common uranium at a rate of 1,036 millionths of a gram every 10 days. At this rate, it would have taken nearly 12,000 years to extract a pound. At Stockholm, in 1940, Prof. Wilhelm Krasney-Ergen developed a process that could produce it 12,000 times faster—or one pound per thousand years.

(3) Atomic fission was a comparatively simple operation if the materials could be made available. It could be accomplished by mixing powdered

beryllium, a fairly common metal, with a tiny amount of radium. This mixture could then be placed in a container in which a layer of paraffin covered a sample of U-235. Neutrons, from the beryllium-radium mixture would be slowed as they passed through the paraffin and struck the uranium. American scientists heard that the Germans had developed quantities of U-235 to use in this process. This caused considerable worry.

(4) Suppose the Germans had isolated U-235 in quantities? Then they

would have the ingredients for an atomic bomb in their grasp. Before U-235 was known, attempts at atom smashing had not been profitable. It required a tremendous power with a negligible output. But smashing of U-235 was another story. The calculated output, was tremendous as compared with the input. But in 1939 the war brought a world-wide blackout in atomic experimentation. A curtain of silence was pulled over it.

Tomorrow: Britain joins search.

**Living Conditions In Europe Bad**

PORTLAND, Sept. 13 (UP) — Dr. Frank Munk, UNRRA director of training, forecast here today living conditions in Europe will be the worst in many years because of a poor crop year and destruction of transportation.

Dr. Munk said the world was at the beginning of the greatest battle in history. "The battle of the winter of 1945". He said hundreds of thousands will die of starvation in Europe and many millions more will live in unheated homes, in addition to other millions going without shoes or adequate clothing.

Dr. Munk, who took charge of training program early in 1944, is recruiting highly specialized technical experts for work in China, Korea and Formosa.

**No Ration Points Needed on Cheese**

ASK FOR TILLAMOOK — IT'S SO GOOD!

2-lb. Package CRACKERS	32¢	We Are Taking Orders for BARTLET PEARS to be delivered when ripe. They will be extra fancy.
Schilling VANILLA, 8-oz.	\$1.25	
Little Queen PEAS, 2 cans	29¢	
Cheese CRACKERS, bag	10¢	
Slenderite Mayonnaise, pt.	32¢	
Clearex for Window Cleaning in the bulk, qt.	45¢	
Light Bulbs, All Sizes		
ROUND STEAK, lb.	41¢	
Fresh Ground BEEF, lb.	30¢	
(No Cereal Used) Piggs Feet, pt.	26¢	
R. I. RED HENS to Stew or Bake		

HOME GROWN PEPPERS TO STUFF, pound	15¢
NESCAFE, THE INSTANT COFFEE, Bottle	35¢
ABSORBENE TO CLEAN WALLS, 2 Pkgs.	25¢
RED DEVIL SOOT REMOVER, package	31¢

**Nucoa** Now Contains 15,000 Units of Vitamin "A" (12 Pts. per Pound)  
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**CLEAN GLASS the CLEARIX WAY**

JUST SPRAY IT ON WIPE IT OFF

A WILCO PRODUCT

**Widow's Club in Cove Has Meet; Many Are Guests**

COVE, Sept. 13 (Special) — A daughter was born to Mr. and Mrs. Lewis Hallmark Tuesday, Sept. 4, at St. Helens. She is named Anne Lee. The grandparents are Mr. and Mrs. W. J. Hallmark. This is their second child.

Inez Towle and Wanda Elmer left the 12th for Corvallis.

Mrs. Margaret Moore was hostess to the Widow's club at the home of her daughter, Mrs. Lester Robinson, Monday, Sept. 10. The afternoon was spent socially and with some contests. Lunch was served. Twelve women were present. Guests were Mrs. A. A. Antles, Mrs. Cora Bloom, Mrs. Sally Conley, Mrs. Fannie Conklin, Mrs. Addie Geer, Mrs. Mae Kelley, Mrs. Anna Lund, Mrs. Nellie Marten, Mrs. Lydia Lantz, Mrs. John Richards, Mrs. Lucretia White.

C. W. Clark was calling on old acquaintances Saturday and Sunday. He now lives in Portland and is "connected" with the governmental health survey. He was a resident of Cove several years ago.

Mr. and Mrs. L. M. Laird had a family party Sunday. The occasion was the coming of Mr. and Mrs. Wm. Downing from Portland. The Downings came after their small son, who has been the guest of his grandparents, Mr. and Mrs. J. R. Price for several weeks at Camp Yew Bow.

Mr. and Mrs. Elwin Towle of Los Angeles are the guests of their uncle and aunt, Mr. and Mrs. Thomas Towle. The Elwin Towles are north for a visit with their parents, Mr. and Mrs. Leonard Towle at Battle Ground, Wash.

Mrs. Thomas Towle entertained a few friends Friday evening complimenting their guests.

Lt. Glen Robinson, son of Mr. and Mrs. O. B. Robinson, has received his discharge from the army and with his wife, is expected home.

Lt. Gordon Mills, son of Mr. and Mrs. J. E. Mills, who has been overseas nearly two years and lately in France, has come home for a furlough. He called them from New York and arrived in Fort Lewis Sunday, to go after him. Mrs. Mills' sister, Ruth Jones, who was confined at St. Tomas in the Philippine islands for almost three years, is now here. She has been in the states ever since their liberation, but

**PEACE TIME SERVICE**

*Begins OCT. 1*

Lifting the 35 mile speed limit will make available more seats, more frequent daily schedules, new transcontinental schedules, and great savings of time for bus travelers.

Peacetime schedules will be resumed October first. Watch for ads announcing new departure times of ask your Overland Greyhound Agent.

GREYHOUND BUS DEPOT  
H. A. Decker, Agent  
Phone 49 Sacajawea Annex

OVERLAND GREYHOUND LINES

with a sister, Mrs. Charles Hunley in California, until she came to Cove early this week. Miss Jones was a teacher in the Philippines for 25 years.

Mrs. Edward Campbell, formerly Margery Rundall, submitted to a tonsilectomy Friday, is reported to be recovering.

Mr. and Mrs. Everett Williams, who, with their family, has been at Freewater picking prunes, are home again.

Several young persons are leaving soon for their various colleges. Misses Elda Mae Childers, Doris Miller, Verna Towle and Marie Knight, will go to La Grande to the Eastern Oregon college of education. Shirley Brazille and Inez Towle will go back to Corvallis to the Oregon State college. Betty Glee Bell, Patty and Frances Berry will go to Caldwell to the Gem State college.

**'Till We Meet' Powerful, Timely**

Seldom has a picture been presented at a time when audiences everywhere are deeply and personally concerned with its basic theme. "Till We Meet Again" is the story of an American officer in France whose life is saved by a member of the famous Maquis, a beautiful French girl.

With American soldiers fighting beside the Free French and aided by the underground network of the F. F. I. this magnificent dramatic story which opens today at the Liberty theater, stars Ray Milland and beautiful Barbara Britton.

**NEW NEWSPAPERS?**  
OLYMPIA, Sept. 13 (UP) — Gov. Mon C. Wallgren last night told state officials attending a banquet honoring Sen. Hugh B. Mitchell, D., Wash., "The state may soon have two democrat newspapers." Wallgren hinted Marshall Field III, Chicago and New York newspaper publisher may soon extend operations into Seattle and Spokane.

**Salem Cannery to Close This Season**

SALEM, Sept. 13 (UP) — The Salem community cannery operated under the sponsorship of the Salem school district and state vocational education department, will be closed at the end of the existing canning season. The school board announced today.

The board said the project had served its purpose in furthering the wartime food conservation program.

The cannery had been operating with financial assistance from the federal government.

**Investigation Made Into Fire at Mill**

GRANTS PASS, Sept. 13 (UP) — An investigation is being made into the origin of a fire which destroyed the Rogue Valley Lumber company mill on the old Redwood highway near Grants Pass Wednesday. T. J. Dostalik, owner of the mill, said the loss was between \$30,000 and \$40,000.

**First National Bank of Portland Has 80th Birthday**

Eighty years ago, just after the close of the civil war, five Oregon pioneers received charter for the First National bank of Portland. The date was Sept. 8, 1865. The infant banking house was capitalized at \$1000,000. Capital funds now total \$20,000,000.

First National bank has grown with Oregon and extended its influence in the civic and business life of the city and state.

Since that early day before any bridges spanned the Willamette river in Portland, the bank has grown to be one of the nation's leading institutions with resources of \$45,000,000 and a statewide system of modern banking service through its 40 branches and eight affiliated banks.

During the first week of operation of the bank at No. 79 Front street in Portland, five loans were made totaling \$1,800. Its loans today total \$50,000,000.

Present directors of the First National bank are: Burt Brown,

Barker, Mason L. Bingham, H. F. Cabell, Ben R. Chandler, Carlos C. Close, E. Franz, A. P. Giannini, Wm. A. Haseltine, L. H. Hoffman, G. C. Lorenz, J. H. Mackie, E. B. MacNaughton, Paul Neils, V. V. Pendergrass, W. J. Pendergrass, W. J. Seufert, Carl F. Wente, M. C. Woodard and Thos. W. Young.

**Official Records**

**Water Turned Off, Sept. 12:**  
Mrs. A. G. Hermann, 1903 O avenue.

**Water Turned On:**  
T. W. Rocky, 302 Main street;  
Mrs. J. B. Hughes, 2716 Third street.

**From where I sit... by Joe Marsh**



**Mad Dogs and Wagging Tongues**

The county had a "mad dog" scare last week. Phoebe Token's spaniel bit the postman, and he vowed that he was plenty mad about it.

But by the time the rumor got around, it wasn't the postman who was mad, it was the dog. And before the truth was learned, half the kids in the neighborhood had missed school, while their mothers nearly died of fright.

Wagging tongues can cause a lot of "mad dog" trouble. Like wagging tongues that gossip

Joe Marsh

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*This is the kind of furniture you have been awaiting!*

**Convenient Terms Arranged**

They are made according to finer standards because restrictions on materials were released. Every care has been taken in the styling of these davenportes to assure long service and smart appearance. All have unusually graceful lines, the best spring construction and attractive coverings in rich blue, rose or green. Come in and see them soon.

**Bohnenkamp's**

*Have you tried this new*

# War-Born MOTOR OIL

*Now ready for cars of peace — a discovery of wartime research that fights oxidation — the parent of sludge*

GOOD NEWS for all motorists! Now available, when cars need it most, is this new kind of motor oil... Golden Shell with oxidation inhibitor.

Oxidation is the enemy of old cars and new because it causes sludge. And sludge, gumming up friction surfaces inside your engine, won't let good oil get into the places where lubrication is needed. So your car wears out faster.

New Golden Shell motor oil with oxidation inhibitor is one of the first achievements of wartime research to reach civilian motorists. Adding the inhibitor during manufacture results in a lubricating oil that stays rich and free-flowing from one drain to the next.

Take no chances with the mileage remaining in your car. Get new Golden Shell motor oil today. Shell Oil Company, Incorporated.

*Like oxidized metal — Oxidized Oil is no good*

You've seen the effect of oxidation on metal. Rusted equipment that must be scrapped. But you seldom see the insidious effect of oil oxidation inside your engine... vital parts that need good lubrication protection. Give them the protection of new Golden Shell Motor Oil with oxidation inhibitor.

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MOTOR OIL 25¢ PER QUART