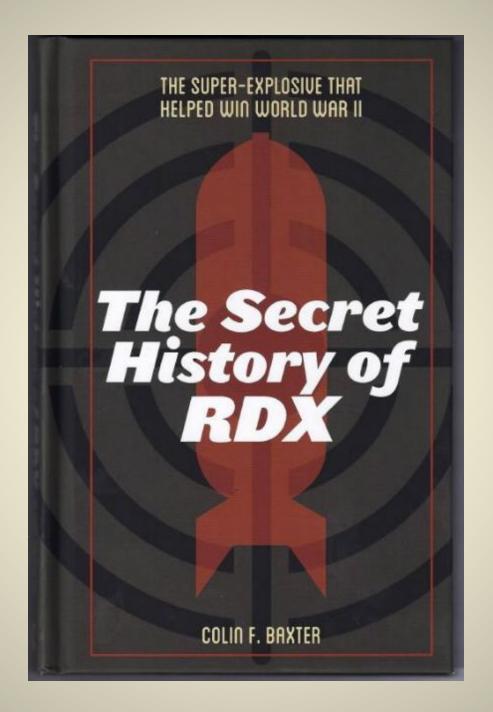
One of the Great Chapters of the War Epic:

The Secret History of RDX

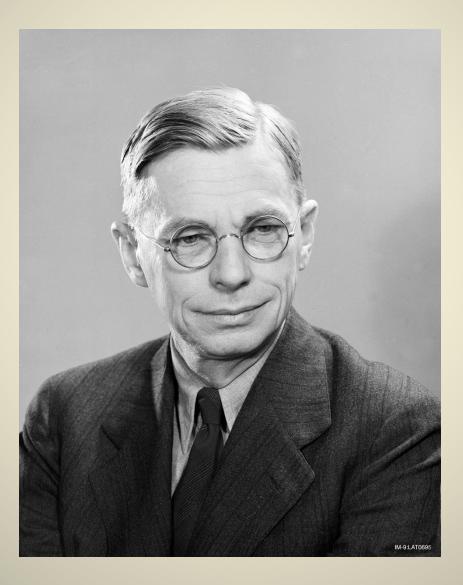
A Presentation by Dr. Colin F. Baxter



RDX STEEL PLATE COMPARISON WITH TNT



Dr. James B. Conant (NDRC)1940



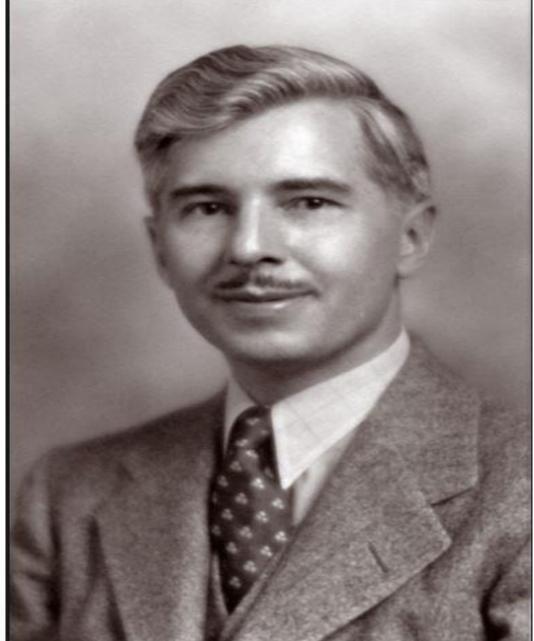
Dr. James B. Conant (NDRC) 1940 with chemistry and physics friends



Admiral W. H. P. Blandy, Chief Naval Bureau of Ordnance



BACHMANN FORMAL PORTRAIT



WERNER E. BACHMANN (RIGHT SIDE) AT WORK IN THE LAB



Herb G. Stone, Works Manager



Wexler Bend Pilot Plant: An Efficient Madhouse



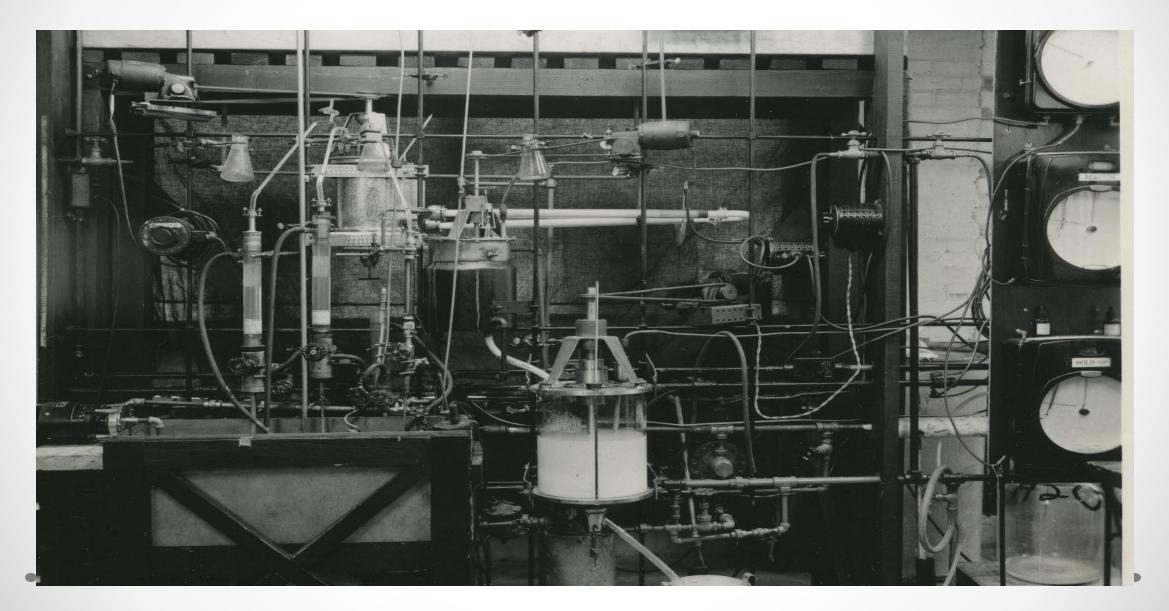
MERCHANT SHIP SINKING....LIFEBOATS off U.S. East Coast 1942



THE JEEP: THE CONTINUOUS PROCESS



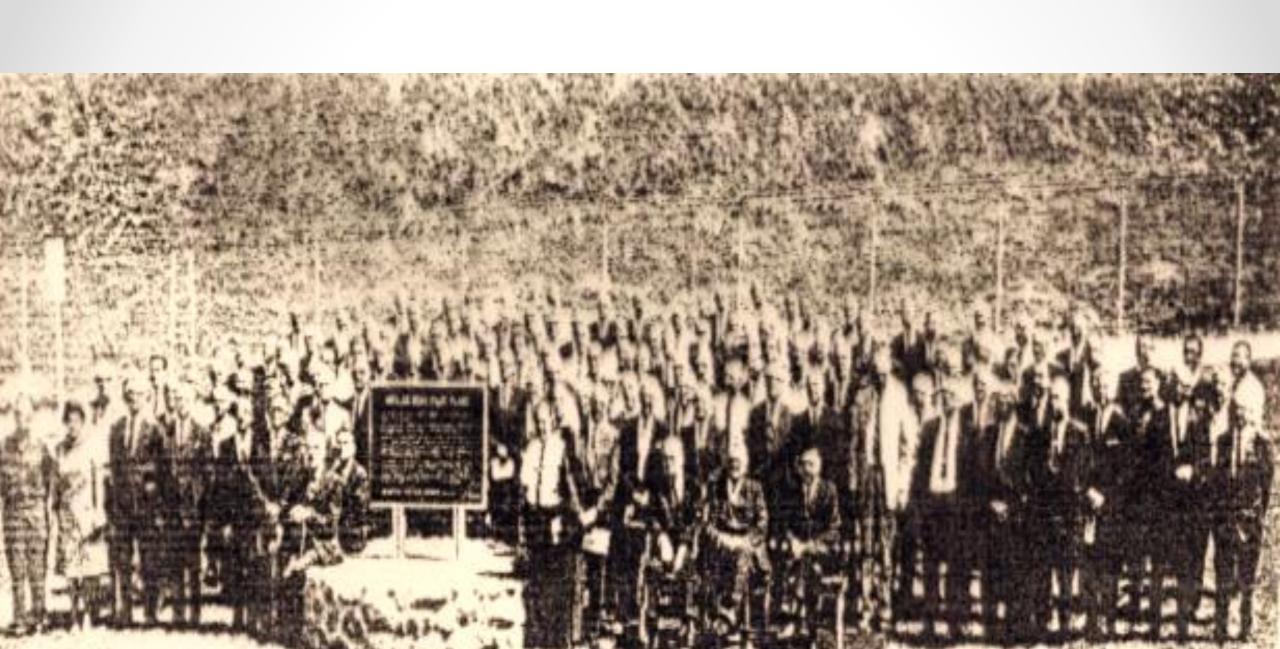
Continuous Jeep Reactor

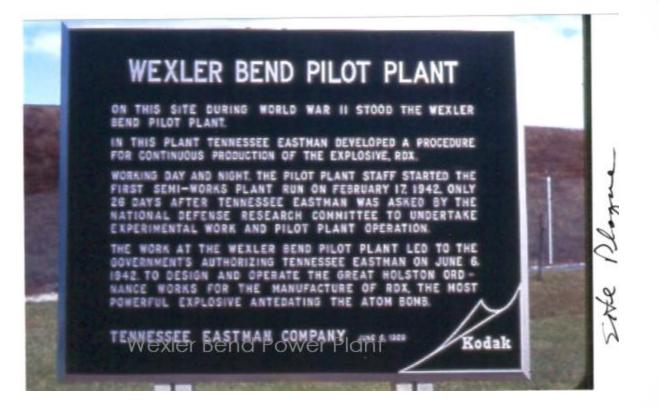


Classified

Laboratory Continuous Reactor

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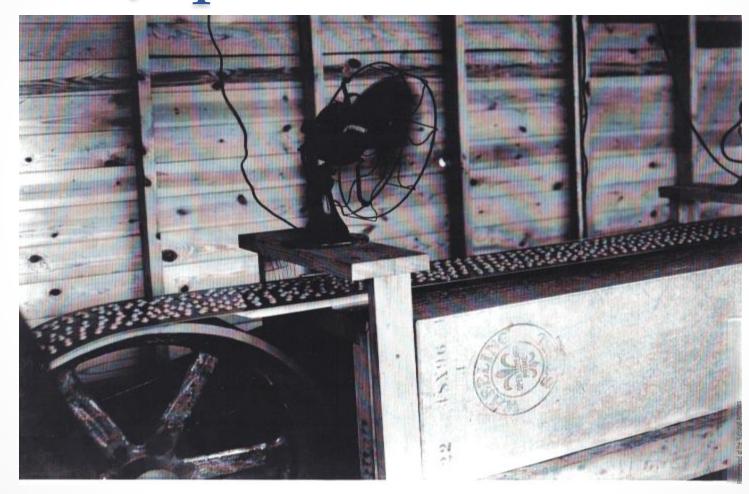


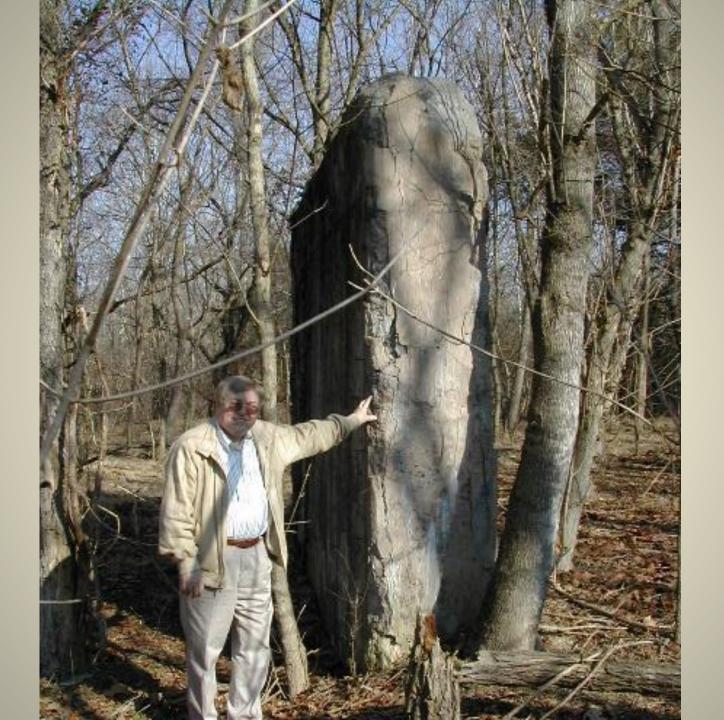






Japanese Kisses







HOLSTON ORDNANCE WORKS 1942

• • •

PEAK EMPLOYMENT 18,000 to 20,000 CONSTRUCTION WORKERS

AERIAL VIEW OF H.O.W. TEN PRODUCTION LINES



Area A: Raw Materials



Area B: Slough Bridge



Pipelines From Bldg. E to Bldg. B



Interplant Railroad





This is to certify that J.F. Stroup has been a loyal employee of the HOLSTON ORDNANCE WORKS Lun ECTONIC · TENNESSEE EASTMAN CORPORATION " and has rendered valuable services in the construction and operation of this war facility.



Lt. Colonel W.E. Ryan, 1st Commanding Officer of Holston Ordinance Works, with his secretary. 25, September 1943.

Ed Guenther, Supt. Explosives Div.



Lee Davy, Supt. Chemical Controls



H.O.W. Administration Buildings





The Victory Buses ran three times a day from Limestone through Bowmantown, Sulphur Springs, and Gray Station to Eastman Chemical and Holston Ordnance defense plants during World War II. With wartime gasoline rationing, a national 30-mile-per-hour speed limit and worker ranks thinned by military service, plant owners bused workmen and women in from all over the three-state area.



The Limestone route for the Victory Bus that ran to Kingsport during World War II went through the villages of Bowmantown and Sulphur Springs three times a day, taking workers to the defense plants in Kingsport, primarily Tennessee Eastman and Holston Ordnance.









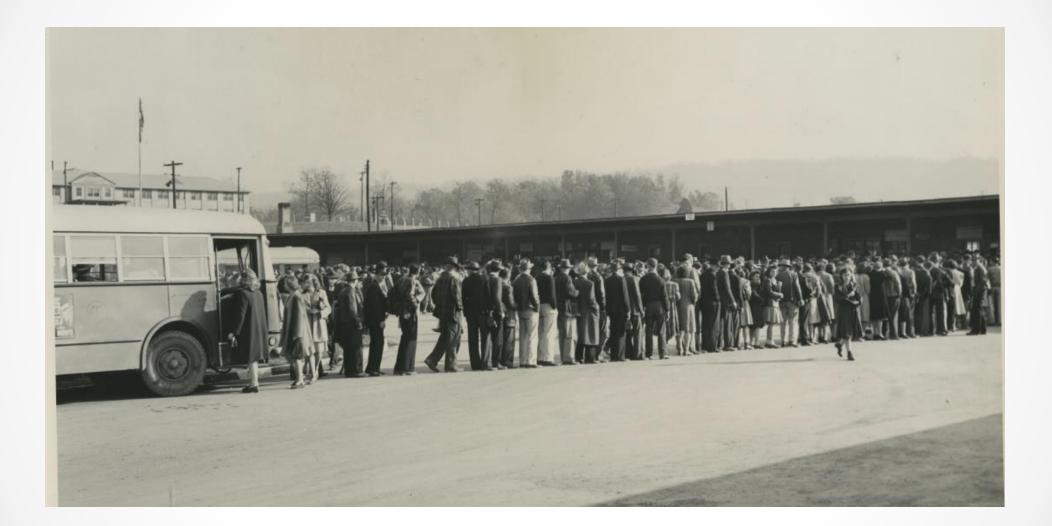
Lady Chauffeurs



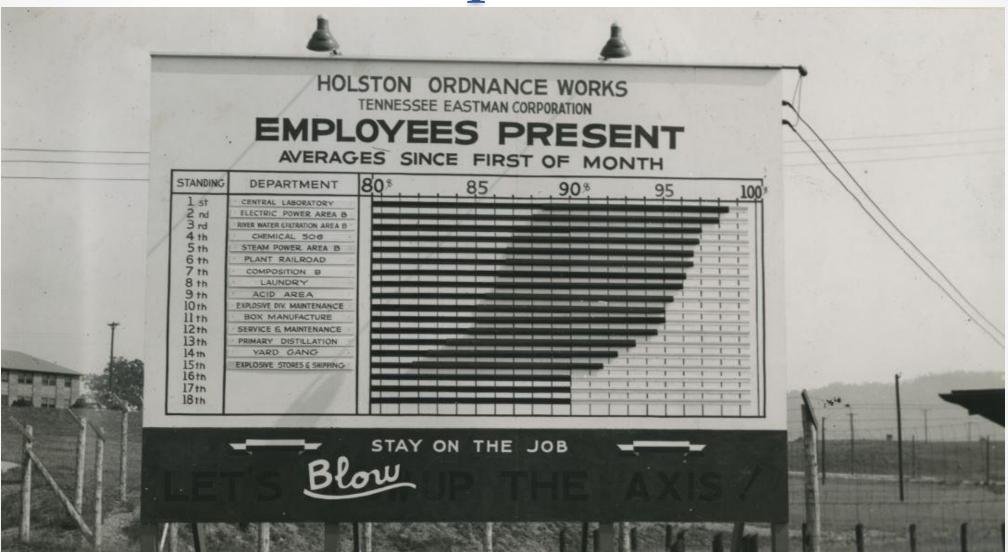
Unloading TNT







Presentee Bulletin Board: Let's Blow up the Axis



HOLSTON EMPLOYEES:

YOU WILL BE INTERESTED IN THESE TWO CLIPPINGS FROM RECENT NEWS-PAPERS. Oct. 28,1944

<u>RDX</u> REPLACES TNT, PULLS NAZI 'DRAGONS' TEETH'

Boston, Mass. Oct. 11 (Ph.-Known only by the Cryptic symbol "RDX." a super-explosive was built by army ordnance for engineers to blast a way thru miles of concrete anti-tank defenses on the approaches to Aachen.

Col. H. B. Sheets, commander of the Boston ordenance district, explained that these obstacles, "known as 'dragona' teeth' and looking like Martian molars," had to be leveled to permit passage of tanks and other combat vehicles, Aerial reconnaissance disclosed the "teeth" and army ordenance was put on the job. The result is "RDX" which takes up much less space than TNT and, said the colonel, is much more effective.

The Engineers, said the colonel, placed the plastic explosive around the bases of the obstacles, embedded a detonator cap, withdrew to a safe distance and then blasted the obstacles.

MANAGER

EARTHQUAKE BOMB PROVES EFFECTIVE

Hailed as War's Most Destructive Air Weapon

By HENRY B. JAMESON LONDON, Oct. 14 (AP).—The air ministry announced tonight that the RAF has been breaking dama, seawalls, and submarine pens recently with a new-type, 12,000-pound earthquake bomb which it described as "undoubtedly the most destructive air weapon ever used."

The big weapon ever used." The big weapon combines great penetrative power with a terrific blast effect, the air ministry said, adding that "no other bomb used in this war, either by ourselves or by the enemy, has had these twe advantages."

"Even the old-type, 12,000-pound factory buster detonated on the surface and destroyed its target by the blast alone," the ministry observed.

Nazi Bomb A Toy The blast of either one makes that of the Nazi flying bomb look like a

toy. The new bomb is three times the size of the original blockbusters, one of which is known to have destroyed at least 30 buildings during an attack on Emden. That would mean that under the same conditions the "earthquaker" might flatten up to 100 buildings.

Scientists estimate that its blast damage covers an area of approximately 80,000 square yards.

It is streamlined so that it will penetrate into the earth even from moderate slittudes. It carries a delayed action fuse so that the bomb does not explode until it is inside or under its target. The head contains the heaviest possible charge of "a very powerful explosive."

The very powerful explosive." The extraordinary penetrative power was shown in recent stacks on the submarine pens at Brest. They were among the strongest shelters ever built by man, with concrete roofs 12 feet thick.

"Four 12,000-pounders hit the roof and drilled their way right through the concrete to explode inside," the air ministry declared.

The new bombs also have been used with great success in knocking out formidable German long-range weapon sites. One of them dropped on a hillside in France buried hundreds of flying bombs the Germans had stored in linestone caves.

It took only one to put the big German battleship Tripits out of action, probably for the duration. They also were used to drain the vital Dorimund-Ems canal, to crumble the sea walls around Walcheren island off the Dutch coast where the Germans had long-range guns and to smash the Dembs dam in southern France.

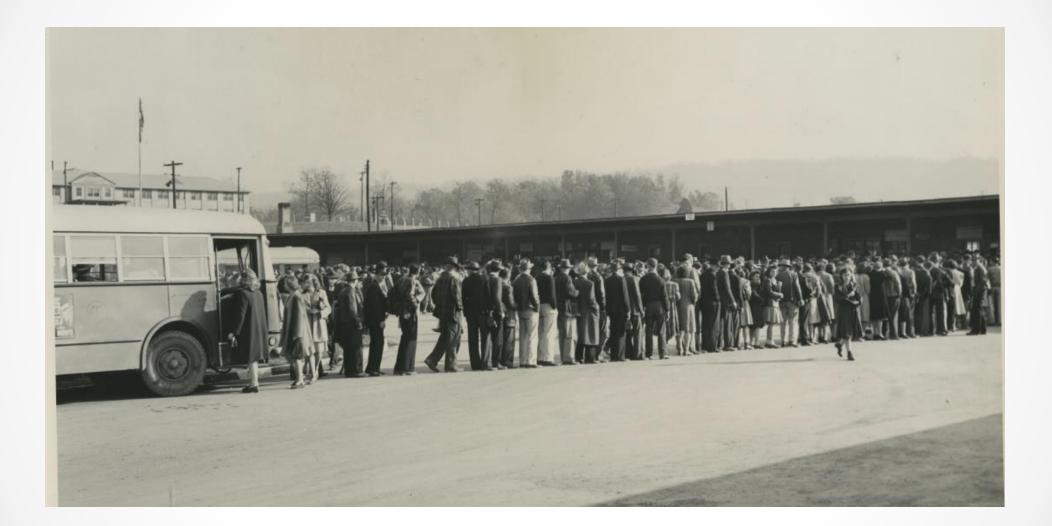
Ground troops destroy dragon's teeth on Siegfried Line





Women's Barracks



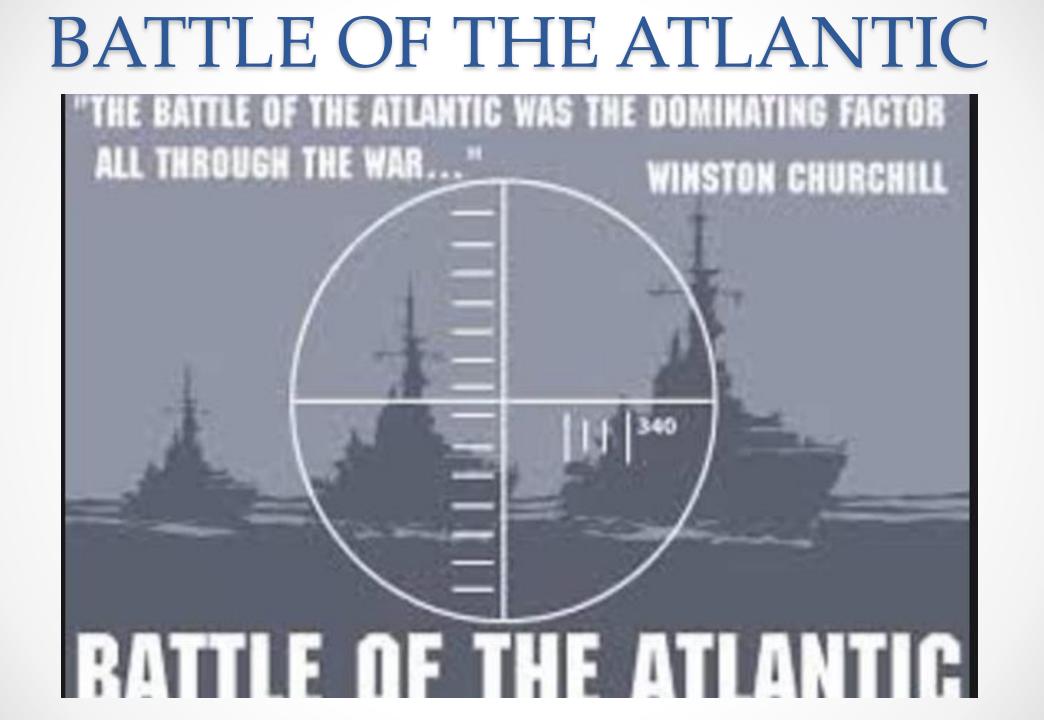












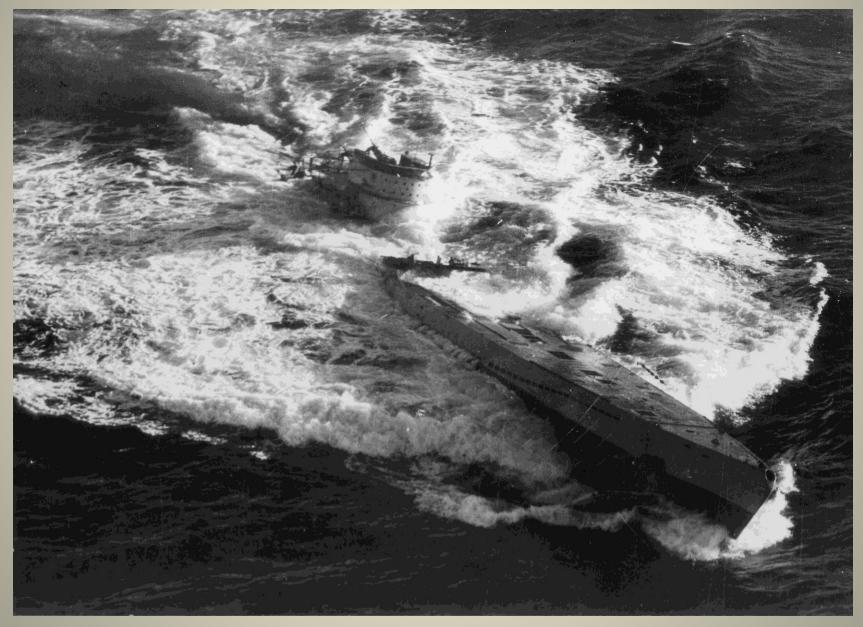
Loading a Torpex Depthcharge



AVENGER ATTACKS FROM USS BOGUE



U-Boat after the attack



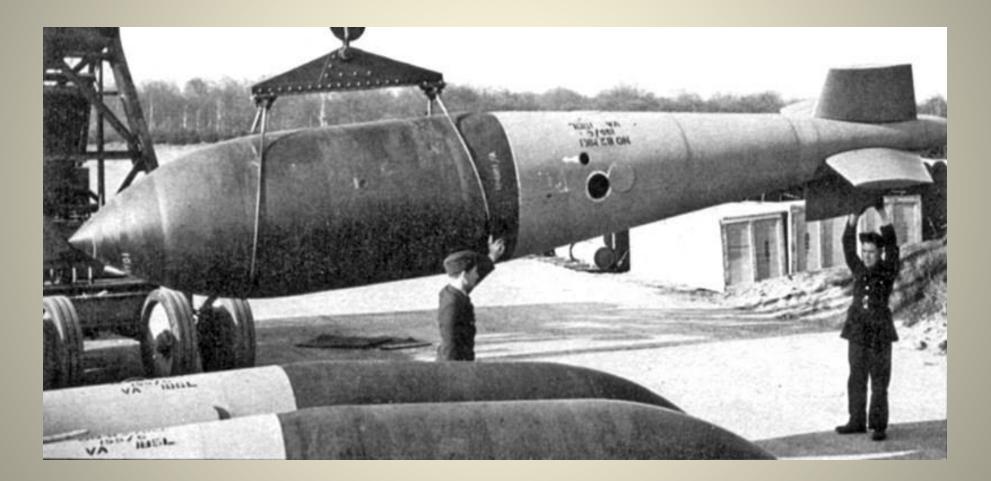
AIRCRAFT DROPPING TORPEX AERIAL DEPTH CHARGES ON U-BOATS



LIBERATOR WITH LEIGH LIGHT DROPS TORPEX DCs ON U-BOAT



THE 22,000 POUND GRAND SLAM EARTHQUAKE BOMB



LOADING B-29 BOMBERS WITH COMP B

The July 10 issue of Life shows the road

Composition B takes from Holston to Japan.



Dambusters' Rate on the Ruhr

A handful of specially trained pilots dealt a blow to the industrial heart of Germany with their 'bouncing bombs.'

By Patrick Cooney

t was almost dark when Royal Air Force Wing Commander Guy Gibson wheeled his bomber G-George between two other Avro Lan-casters waiting on Scampton's grass airfield on the night of May 16, 1943. The 25-year-old commander of RAF No. 617 Squadron made his final cockpit checks, then raised his thumb to the flight-control truck, whose Aldis lamp flashed the message, "Take off." Gibson eased the throttles forward until G-George shuddered, then he flicked off the brakes and the Lancaster began to roll. The tail lifted and G-George wanted to fly, but Gibson held the nose down. As the fence orma in or eight has coursed brock the stick and climbed showth irro the ely

came into sight, he coaxed back the stick and climbed slowly into the sky

On May 16, 1943, Auro Lancasters of the Royal Air Force's No. 617 Squadron, flown by Flight Lt. Harold Martin (fore-ground) and Wing Commander Guy Gibson (at upper left), try to draw anti-aircraft fire away from Squadron Leader H.M. Young's plane (at lower left), whose bomb exploded just after he cleared the Möhne dam, in Robert Taylor's Operation Chartie (Milicare Collere Olivie Olivie) Chastise (Military Gallery, Ojai, Calif.).

Tallboy Bombs Sink the Battleship Tirpitz



Tirpitz finally turtled



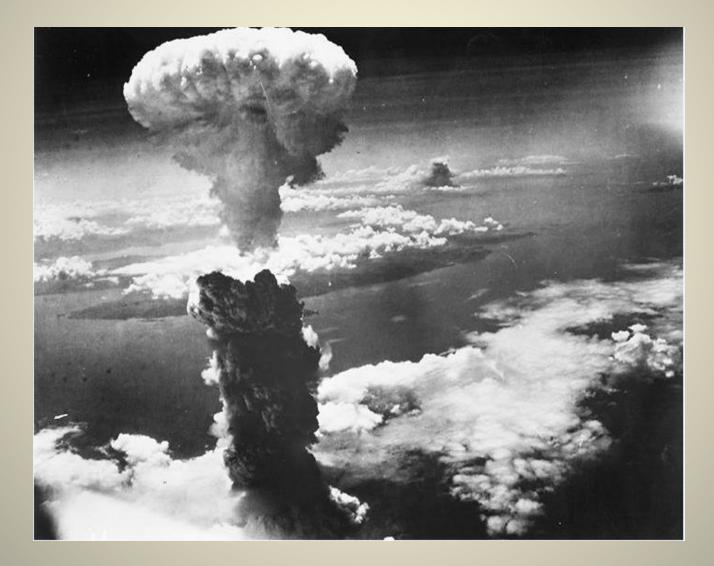
HEDGEHOG ANTISUBMARINE WEAPON ARMED WITH TORPEX





Utica, N.Y.-June 20-Alfred Dean Slack, Syracuse chemist, shown escorted by deputies. He will be taken to Knoxville, Tenn., today to face a charge of espionage. Acme Telephoto

COMPOSITION B HELPS TO END THE WAR



Thank you for you time today and please feel free to ask any questions.

BOOK AVAILABLE NOW FROM UNIVERSITY PRESS OF KENTUCKY OR...... AMAZON