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SCIENCE NEWS LETTER



THE WEEKLY SUMMARY OF CURRENT SCIENCE • SEPTEMBER 15, 1945

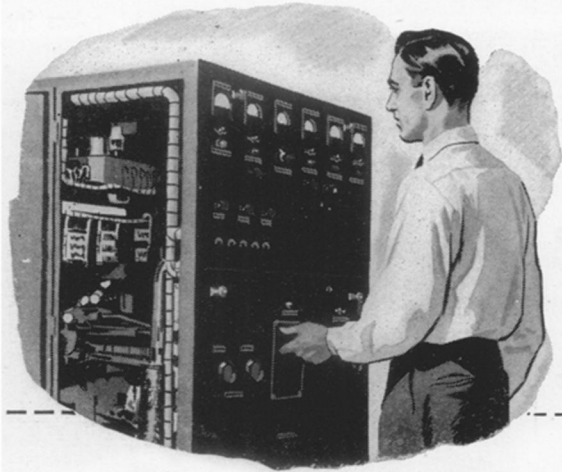
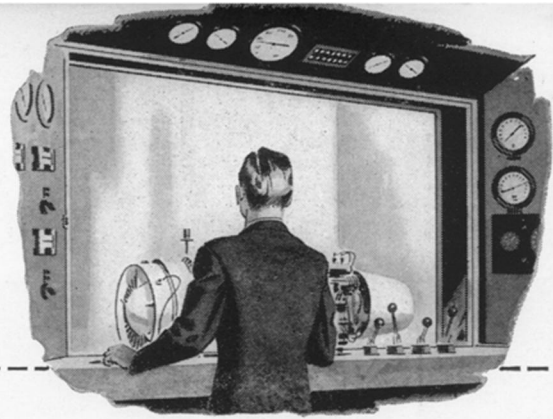


Welding Under Water
See Page 167

A SCIENCE SERVICE PUBLICATION

In a test cell an ENGINEER studies the performance of a jet-propulsion engine that is expected to produce greater thrust—for its weight—than any made in America.

... the name on the J-P ENGINE is Westinghouse.

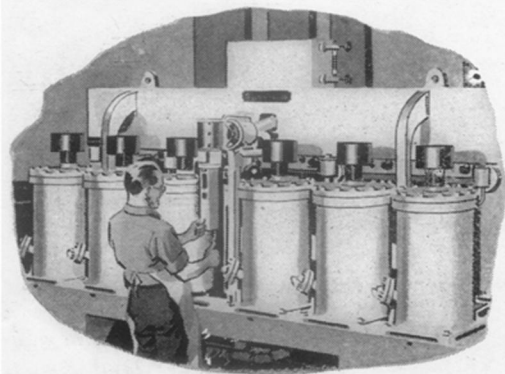


In a synthetic rubber plant a CHEMIST uses a mass spectrometer to analyze a complex gas mixture by sorting its molecules—reducing analyzing time from *days* to a matter of *minutes*.

... the name on the MASS SPECTROMETER is Westinghouse.

High in the air a SCIENTIST adjusts a fulchronograph which accurately records the *intensity* and *duration* of thunderbolts—in the never ending study of improved protection against lightning.

... the name on the FULCHRONOGRAPH is Westinghouse.



In a refining plant a METALLURGIST uses an Ignitron* rectifier for the more efficient conversion of alternating to direct current—in producing vast quantities of aluminum for our war effort.

... the name on the IGNITRON RECTIFIER is Westinghouse.

*Reg. U. S. Pat. Off.

Westinghouse
PLANTS IN 25 CITIES OFFICES EVERYWHERE

TODAY — Westinghouse war products are making vital contributions to final Victory over our enemies in the Far East.

TOMORROW — Peacetime products . . . backed by Westinghouse research, engineering and precision manufacture . . . will contribute to greater efficiency in industry and better living in our homes.

Tune in: JOHN CHARLES THOMAS—Sunday 2:30 pm, EWT, NBC • TED MALONE—Monday through Friday, 11:45 am, EWT, Blue Network



THE BIRD WITH THE 16-MILE TAIL

The wire you see with the parachute on the end of it is a telephone wire, being payed out from a C-47 plane.

Bell Telephone Laboratories, working with the Air Technical Service Command of the Army Air Forces, developed this idea. It will save precious lives and time on the battlefield.

A soldier throws out a parachute with the wire and a weight attached. The weight drops the line to the target area. From then on, through

a tube thrust out the doorway of the plane, the wire thrums out steadily — sixteen miles of it can be laid in 6 $\frac{2}{3}$ minutes. Isolated patrols can be linked quickly with headquarters. Jungles and mountains no longer need be obstacles to communication.

This is in sharp contrast to the old, dangerous way. The laying of wire through swamps and over mountains often meant the transporting of coils on the backs of men crawling through jungle vegetation,

and in the line of sniper fire. It is reported that in one sector of the Asiatic theater alone, 41 men were killed or wounded in a single wire-laying mission.

Bell Telephone Laboratories is handling more than 1200 development projects for the Army and the Navy. When the war is over, the Laboratories goes back to its regular job — helping the Bell System bring you the finest telephone service in the world.



BELL TELEPHONE LABORATORIES

Exploring and inventing, devising and perfecting for the Armed Forces at war and for continued improvements and economies in telephone service.