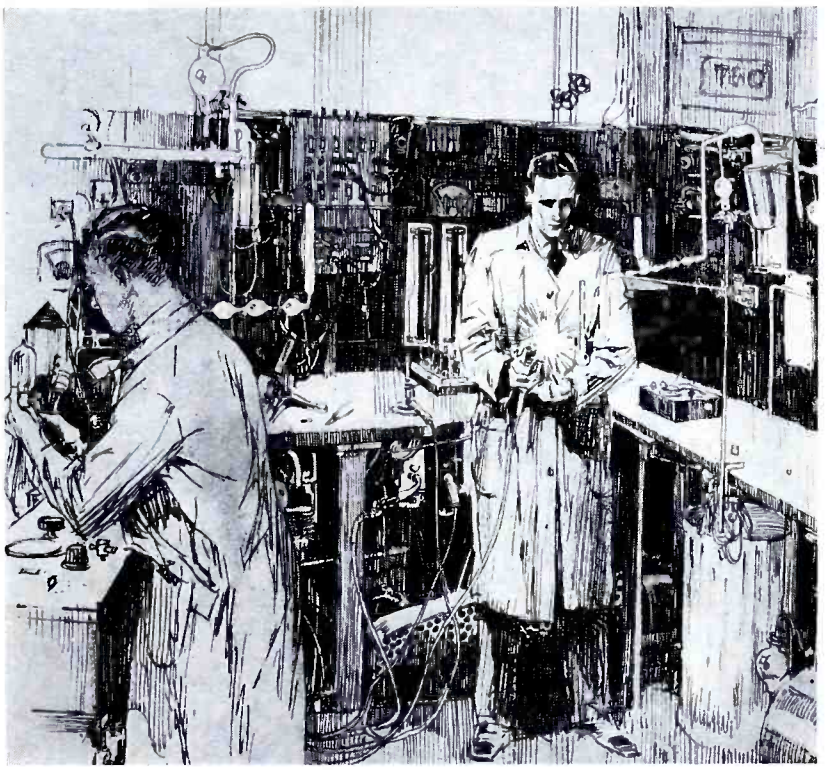
Bell Laboratories Record



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NOTE: A biography of the author of each article in Volumes VIII to XII is to be found under the heading "Contributors to This Issue" in the back of the issue in which the article appears.

Q

R

Captions for Frontispieces

1932

MARCH . . . Measuring thin sheets of material with an optimeter accurate to one hundred-thousandth of an inch.

APRIL . . . . Sequence switches in a panel dial office.

MAY . . . . Welding by the electric-arc method in the new welding laboratory.

JUNE . . . . An electrometric analysis of a salt solution used for the preservation of telephone poles.

JULY . . . . Turning the die for an experimental transmitter diaphragm, in the development shop at West Street.

AUGUST . . . Sinking a die for the phenol-plastic mounting of an experimental model.

SEPTEMBER . . Lathe-type glass-working machine used in the manufacture of modern power vacuum tubes.

OCTOBER . . . A new broadcast transmitter (12A) which, with an associated amplifier, covers the power range from 100 to 1000 watts.

NOVEMBER . . An iron screw inside its galvanized coating, as photographed in the Materials Laboratory by double exposure with an intervening acid treatment. Each small square is 0.0005 inch on a side.

DECEMBER . . Apparatus used at Bell Telephone Laboratories for measuring the quantity of various gases in ferrous alloys.

1933

JANUARY . . When this central-office fuse blows, the spring makes a contact which rings an alarm, and at the same time raises the colored glass indicating bead so that it can be quickly located and the fuse replaced.

FEBRUARY . . Interior of one of the transmitters built in the Laboratories for the new Central America radio-telephone service.

MARCH . . . X-ray photograph of potted network assembly, taken to show the relative positions of the coils and condensers after the can has been filled with sealing compound.

APRIL . . . . Upper half of jig for testing toroidal cores. The pointed conductors dip into small wells of mercury to form a 75-turn winding around the core to be tested.

MAY . . . . Dr. Leopold Stokowski, Director of the Philadelphia Orchestra, whose voluntary cooperation greatly facilitated the Laboratories' studies leading to the reproduction of music in auditory perspective.

JUNE . . . . Apparatus employed at the Summit laboratories for measuring the rate of flow of humidified gases through wood sections.

JULY . . . . In this unique three-element vacuum tube, on display at the Century of Progress, the plate is coated with a fluorescent material, and the brightness of the luminous bands across it is an indication of the plate current.

AUGUST . . . Three electrode high-vacuum thermionic tube, developed by H. D. Arnold; used in 1914 as a repeater element in transcontinental telephony.

SEPTEMBER . . Measurement of surface leakage on glass insulators.

OCTOBER . . . The quality of the enamel insulation on wire, once tested by the thumb nail, is now tested accurately by an automatically recording machine.

NOVEMBER . . Apparatus for extracting organic materials from various bodies by means of ether.

DECEMBER . . In this resistance furnace, crucibles rise through the interior of the alundum tube shown in the foreground while their contents are being heated.

1934

JANUARY . . Apparatus used in research studies of photoelectric cells.

FEBRUARY . . A group of duralumin transmitter diaphragms studied in the Chemical Department to determine the effects of various metallurgical treatments in corrosion resistance.

MARCH . . . Loud speakers for reproduction in auditory perspective. In the foreground are the loud speaker and horn for high frequencies.

APRIL . . . . Winding grids for experimental vacuum tubes at the Tube Shop.

MAY . . . . Assembling the 700A Selector used for remote control of radio transmitters.

JUNE . . . . The cathetometer is a convenient means for measuring the deflection of a quartz-spring balance.

JULY . . . . High-frequency quartz plate showing an interference pattern in an optical test for flatness.

AUGUST . . . The amount of gas evolved from a metal is measured by noting the increase in weight of an absorbing agent suspended on a quartz spring.