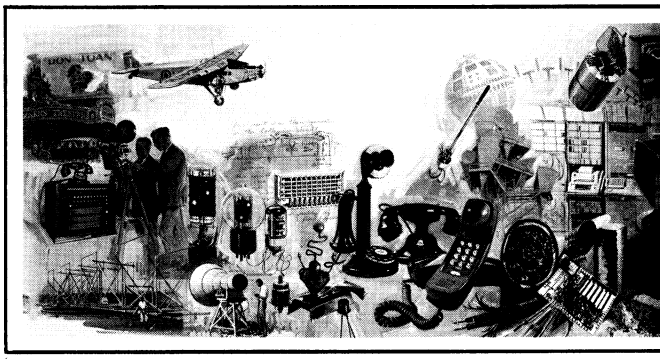
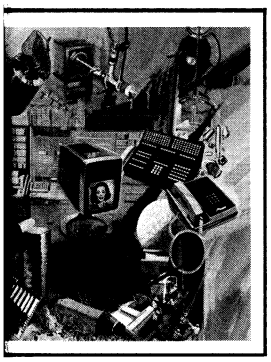
BELL LABORATORIES
Record
Volume 53 • Number 1 • January 1975



THE BELL LABORATORIES RECORD is published eleven times a year by Bell Telephone Laboratories, Incorporated, 600 Mountain Avenue, Murray Hill, N. J. 07974, W. O. Baker, President; F. C. Cheston, Secretary and Treasurer. Subscription: $7.00 per year, plus $1.00 foreign postage; single copies, $1.00. Checks should be made payable to Bell Laboratories RECORD and addressed to the Circulation Manager.

Contents



About the cover — In this artist's conception of achievements by Bell Labs since its founding in 1925, we see in the discoveries and techniques of the early years (back cover) the beginnings of our telephone system as we know it today and expect it to evolve (front cover and overleaf). Through the years, continuing developments have changed our ways of talking with one another—shrinking the earth to a global village, bringing business associates and friends into our homes and offices, and exploding into a thousand new technologies that project us into the future. At Bell Laboratories we speak not of the "past" 50 years but of the "first" 50 years.

teamwork and from new fundamental understanding of nature. In particular, the development of electronic devices—from their conception to final systems application—depends on the coordinated efforts of specialists in basic science, development, manufacture, and application. The power of this approach has been demonstrated most vividly at Bell Laboratories.