

## CONTRIBUTORS TO THIS ISSUE

**Burns, Bruce:** Born November 24, 1897, at Dayton, Ohio. B.S. Throop College of Technology, 1919; B.S. in M.E., California Institute of Technology, 1920; research, Trumble Mfg. Co., 1920-21; chief engineer, Pneu-shox, 1922-25; research, Hughes Tool Co., 1925-28; chief engineer, Hughes Development Co., 1928-31; technical director, Multicolor, Ltd., Feb., 1931, to date.

**Crabtree, J. I.:** See January, 1931, issue of JOURNAL.

**Franklin, H. B.:** Born April 4, 1889, at New York, N. Y. College of the City of New York; theater department, Paramount Famous Lasky Corporation; president, Fox West Coast Theaters until 1930; president, Hughes-Franklin Theaters, 1930 to date. Author of *Motion Picture Theater Management* and *Sound Motion Pictures*.

**Golden, N. D.:** Born July 4, 1896, at Bellaire, Ohio. Attended Emerson Institute, Columbia University, Washington College of Law; U. S. Army, 1917-19; assistant chief, Motion Picture Division, U. S. Dept. of Commerce, 1926 to date.

**Ives, C. E.:** Born February 26, 1902, at Rochester, N. Y. Research Laboratory, Eastman Kodak Company, 1919 to date.

**Miller, A. J.:** Born March 24, 1903, at Rochester, N. Y. Research Laboratory, Eastman Kodak Company, 1919 to date.

**North, C. J.:** Born September 13, 1892, at Swampscott, Mass. A.B., Harvard University, 1914; post-graduate work, Columbia University. Assistant, Bureau Branches and Customs, War Trade Board, 1917-18; managing editor, Export Trade and Finance, 1919-23; chief, Motion Picture Division, U. S. Dept. of Commerce, 1929 to date.

**Otis, R. M.:** Born January 17, 1900, at New Brunswick, N. J. B.S., California Institute of Technology, 1920; Ph.D., California Institute of Technology, 1924; Research Fellow in Physics, California Institute of Technology, 1920-24; engineering department, Western Electric Co., 1924-25; high-voltage vacuum tube research and development, Bell Telephone Laboratories, Inc., 1925-27; director of research, Hughes Development Co., 1927 to date.

**Scott, E. K.:** Born 1868, at South Leeds, England. Graduated Leeds University. Electrical engineering department, University of Sydney, 1904; lecturer at University College, Finsbury Technical College and Northampton Engineering College; consulting engineer.

### ERRATUM

In the June issue of the JOURNAL, p. 807, the biographical sketch of Mr. A. P. Rippenbein was incorrectly presented. The following is the correct version:

**Rippenbein, A. P.:** Born 1893, at Elizabeth, N. J. Electrolytic metal department, I. G. Farbenindustrie A.-G. 1919-28; general manager, American Rocono, Inc., 1930 to date.