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1960, Sumner P. Davis, who had joined the project during the previous year, took over his responsibilities. A three-year grant from the National Science Foundation provided funds for equipment and salaries.

The red CN system, which appears prominently in the spectra of carbon stars and sunspots, was selected as the first to be studied because of its wide spectral range (from about 4370 Å to the region beyond the photographically accessible infrared). The tabulations cover the 39 bands which are sufficiently intense to be recognized in photographic plates, using a relatively high-temperature laboratory source, such as an arc. In addition to CN, the molecules selected for study during the program include C₂, TiO, AlH, NH, BH, MgH, SiH, HgH, SiF, BO, and ZrO.

Review of Materials Science

The National Academy of Sciences—National Research Council and the Office of Naval Research have collaborated in a 771-page survey of materials science entitled *Perspectives in Materials Research*. The study came about as the result of the need felt by the National Academy and the ONR Metallurgy Branch for a comprehensive statement on the state of knowledge and the important problems in the science of materials. Funds for the study were provided through an ONR contract, and the Division of Engineering and Industrial Research, NAS-NRC, was given the responsibility of administering it. An Advisory Committee on Perspectives in Materials Research, headed by Academy president Frederick Seitz, was set up, which organized panels of scientists to prepare the series of individual-area perspectives included in the volume. The book's 12 chapters are devoted to the science of materials; cohesive properties of solids; magnetism and magnetic materials; electrical, optical, and thermal properties of solids; diffusion and mass transport in solids; phase transformations in the solid state; growth, structure, and morphology of crystals; mechanical behavior of crystalline solids; surface phenomena; structure and properties of liquids; effects of radiation on materials; and techniques and instrumentation. The volume has been published by ONR as number 10 in the series, *Surveys of Naval Science*, and is available from the Superintendent of Documents, Government Printing Office, Washington 25, D. C., for \$4 a copy.

Bibliography on Magnetism

The 1962 AIP-AIEE Conference on Magnetism and Magnetic Materials has undertaken the distribution of Volume 2, and Part 1 of Volume 3, of the *Index to the Literature of Magnetism*. The *Index* is published on a semiannual basis by Bell Telephone Laboratories and originally was intended for the use of the Laboratories' staff. It includes references from the literature on ferro-, ferri-, and antiferromagnetism and superconductivity. Volumes 1 and 2 contain 1000 and 1400 references, respectively, from the 1961-1962 literature; the