

## 14. COMMISSION DES DONNEES SPECTROSCOPIQUES FONDAMENTALES

PRÉSIDENT: Mrs Dr Ch. Moore Sitterly, National Bureau of Standards, Washington 20234, D.C., U.S.A.

VICE-PRÉSIDENT: Dr G. Herzberg, Director, Division of Pure Physics, National Research Council, Sussex Drive, Ottawa 2, Ontario, Canada.

COMITÉ D'ORGANISATION: H. Barrell, B. Edlén, T. A. Littlefield, M. G. J. Minnaert, P. Swings.

MEMBRES: Adam, Allen, Baird, Bates, Branscomb, Cook (A. H.), Dobronravin, Engelhard, Essen, Garstang, Green, Herman, Humphreys, Jacquinet, Junkes, Kiess, King (R. B.), Layzer, Lochte-Holtgreven, Mack, McMath†, Meggers, Melnikov, Migeotte, Mohler, Monfils, Nevin, Nicholls, Obi, Phillips, Racah, Van Regemorter, Schröter, Seaton, Terrien, Tousey, Trefftz, Zirin.

### GENERAL COMMENTS

The scope of work handled by Commission 14 has increased steadily. This has been formally recognized by the change of its title to 'Fundamental Spectroscopic Data'. Two committees have been formed to handle special topics of importance:

1. Committee on Standards of Wavelength.

Chairman: B. Edlén.

Members: Barrell, Engelhard, Herzberg, Humphreys, Littlefield, Terrien.

2. Committee on Transition Probabilities and Cross Sections.

Chairman: M. G. J. Minnaert.

Members: Allen, Bates, Branscomb, Garstang, Green, King, Layzer, Lochte-Holtgreven, Melnikov, Nicholls, Van Regemorter, Seaton, Trefftz, Zirin.

Six years ago, the Joint Commission for Spectroscopy and Commission 14 both convened in Moscow. The Joint Commission has since been replaced by the Triple Commission for Spectroscopy, so named because it consists of members from three International Unions: Pure and Applied Chemistry, Pure and Applied Physics, and the Astronomical Union. Mrs Sitterly and Herzberg represented the IAU as members of the Triple Commission from 1960 to 1963. Phillips has now been appointed to replace Herzberg, whose term expired in June, 1963. The president, H. H. Nielsen, is from the parent Union (Physics).

In 1964 the Triple Commission will again convene in conjunction with the IAU General Assembly. Collaboration with Commission 14 is urgently needed, since fundamental spectroscopic data are a serious concern of chemists and physicists as well as astronomers.

### REPORT ON STANDARDS OF WAVELENGTH

(Committee 1)\*

B. Edlén

#### 1. *Class A Secondary Standards*

The 'Comité Consultatif pour la Définition du Mètre' (CCDM) decided at its third session in October 1962 to adopt certain 8-figure wavelengths for 4 lines in each one of the atoms

\*Reference numbers in parentheses refer to the general bibliography which follows the report of the Commission.