

**Gmelins Handbuch der anorganischen Chemie. Selen A3.** Pp. xvii+184 with 158 figs. Weinheim/Bergstrasse: Verlag Chemie. 1953. Price DM. 111.

**X-ray Diffraction Patterns of Lead Compounds.** Pp. 81 with 9 figs. Chester: Shell Petroleum. 1954. Obtainable free of charge from Thornton Research Centre, Shell Petroleum Company Ltd, P. O. Box 1, Chester, England.

**Die Stereographische Projektion in der Kristallkunde.** By H. TERTSCH. Pp. iv+122 with 46 figs. Wiesbaden: Verlag für Angewandte Wissenschaften. 1954. Price DM. 14·80.

**Atomic Energy — A Survey.** Edited by J. ROTBLAT. Pp. vii+71 with 9 figs. Published for the Atomic Scientists' Association. London: Taylor and Francis. 1954. Price bound 6s.6d; paper cover 4s.4d.

**Précis de Minéralogie.** By P. LAPADU-HARGUES. Pp. 310 with 69 figs. Paris: Masson. 1954. Price bound 2200 fr.; paper cover 1700 fr.

**The Statistical Approach to X-ray Structure Analysis.** By V. VAND and R. PEPINSKY. Pp. 98 with figs. and tables. State College: Pennsylvania State University. 1953. Price \$1·50.

**Handbuch der Mineralogie. Ergänzungsband II, Neue Mineralien und Neue Mineralnamen, Lieferung 1.** By C. HINTZE, compiled and edited by K. F. CHUDOBA. Pp. 80 with 7 figs. and many tables. Berlin: de Gruyter. 1954. Price DM. 22.

**Handbuch der Mineralogie. Ergänzungsband II, Neue Mineralien und Neue Mineralnamen, Lieferung 2.** By C. HINTZE, compiled and edited by K. F. CHUDOBA. Pp. 80 with 10 figs. and many tables. Berlin: de Gruyter. 1954. Price DM. 22.

**Crystal Data. Classification of Substances by Space Groups and their Identification from Cell Dimensions.** By J. D. H. DONNAY, W. NOWACKI and G. DONNAY. Pp. 719. New York: Geological Society of America. 1954. Price \$5·00.

**The Optical Properties of Organic Compounds.** By A. N. WINCHELL. Pp. vii+487 with 152 figs. and 2 tables. New York: Academic Press. 1954. Price \$12·00.

**X-ray Diffraction Procedures for Polycrystalline and Amorphous Materials.** By H. P. KLUG and L. E. ALEXANDER. Pp. xiii+716. New York: Wiley; London: Chapman and Hall. 1954. Price \$15·00.

*Acta Cryst.* (1954). 7, 868

## International Union of Crystallography

### Report of Executive Committee for 1953

#### Introduction

In 1953 the Union continued its programme of publishing activities and was engaged in arrangements for the Third General Assembly and International Congress to be held in Paris in 1954. A meeting of the Executive Committee was held in that city in April, mainly to meet the members of the Programme Committee and of the Local Committee and to discuss detailed arrangements.

One further country (the German Federal Republic) adhered in 1953 bringing the total number of adhering countries at the end of the year to 20. [Since that date two further countries have adhered. An up-to-date list of the adhering countries is given in Table 1.]

#### Work of the Commissions

##### *Commission on Acta Crystallographica*

The 1953 volume was of almost exactly the same size as that for 1952 (see Table 2). Thanks to various economies, to a large increase in the sales of back numbers and to an increase in the number of subscribers, the financial position concerning its production was much more favourable. Even so, expenses exceeded income by

a considerable sum and the Executive Committee was unfortunately compelled to increase the subscription price as from the beginning of Vol. 7.

The Commission co-opted I. Nitta (Japan) as a co-editor as from the beginning of Vol. 6.

##### *Commission on Structure Reports*

*Structure Reports for 1945-1946* (Vol. 10), the third volume to appear, was published in December 1953. Work continued on the preparation of further volumes.

##### *Commission on International Tables for X-ray Crystallography*

The sales of Vol. 1 (published in October 1952) were maintained throughout 1953 at an encouraging level, and by the end of the year some 1100 copies had been sold. The stock of reprints of selected portions prepared for teaching purposes was almost exhausted, and the cost of printing was covered by the income from the sales. Editorial preparation of Vols. 2 and 3 continued throughout the year but these volumes are not likely to appear in print until 1955.

Table 1. *Adhering Bodies*

Country	Group*	Secretary of National Committee
Australia	I	R. I. GARROD, Aeronautical Research Laboratories, Lorimer Street, Fishermen's Bend, Victoria
Austria	I	F. MACHATSCHKI, Mineralogisches Institut der Universität, Vienna
Belgium	III	R. VAN TASSEL, Institut royal des Sciences Naturelles de Belgique, Rue Vautier 31, Brussels
Brazil	I	E. TAVORA, Faculdade Nacional de Filosofia, Av. Pres. Antonio Carlos 40, Rio de Janeiro, D.F.
Canada	IV	W. H. BARNES, Division of Physics, National Research Council, Ottawa 2
Chile	I	N. JOEL, Laboratorio de Cristalografia y Fisica Molecular, Universidad de Chile, Casilla 147, Santiago
Czechoslovakia	I	The Secretary, Czechoslovak National Research Council, Opletalova 19, Prague 2
Denmark	I	A. TOVBORG JENSEN, Den Kgl. Veterinær- og Landbohøjskoles Kemiske Laboratorium, Bülowsvej 13, Copenhagen V
France	VII	H. CURIEN, Laboratoire de Minéralogie de la Sorbonne, 1 Rue Victor Cousin, Paris 5
German Federal Republic	VIII	G. MENZER, Universitätsinstitut für Kristallographie und Mineralogie, Luisenstrasse 37/II, München 2
India	I	The Secretary, Ministry of Natural Resources and Scientific Research, Government of India, New Delhi
Italy	III	G. GIACOMELLO, Istituto di Chimica Farmaceutica, Università di Roma, Rome
Japan	IV	T. ITO, National Committee for Crystallography, Science Council of Japan, Ueno Park, Tokyo
Netherlands	IV	D. W. SMITS, Laboratorium voor Anorganische en Fysische Chemie, Bloemensingel 10, Groningen
Norway	I	I. OFPEDAL, Universitetets Mineralogiske Institutt, Blindern, Oslo
South Africa	I	The Officer-in-Charge, Liaison Division, South African Council for Scientific and Industrial Research, P.O. Box 395, Pretoria
Spain	IV	M. ABBAD Y BERGER, Instituto de Fisica 'Alonso de Santa Cruz', Serrano 119, Madrid
Sweden	I	F. E. WICKMAN, Stockholm 50
Switzerland	I	W. NOWACKI, Mineralogisch-Petrographisches Institut der Universität, Hermann-Sahlstrasse 6, Bern
U. K.	VIII	The Secretary of the British National Committee for Crystallography, The Royal Society, Burlington House, London W. 1
U. S. A.	VIII	W. PARRISH, Philips Laboratories, Irvington-on-Hudson, N. Y.
U.S.S.R.	VIII	Academy of Sciences of the U.S.S.R., Kaloujskaia 14, Moscow

\* See Statutes 8 and 10 (*Acta Cryst.* (1954), 7, 613).Table 2. *Analysis of Volumes 1-6 of Acta Crystallographica*

	Vol. 1 1948	Vol. 2 1949	Vol. 3 1950	Vol. 4 1951	Vol. 5 1952	Vol. 6 1953
Number of pages	348	425	490	583	869	888
Number of articles in English	55	68	65	88	135	121
Number of articles in French	4	4	3	8	11	8
Number of articles in German	2	8	4	2	4	3
Total number of articles	61	80	72	98	150	132
Number of short communications in English	13	20	41	58	62	81
Number of short communications in French	1	—	2	4	4	1
Number of short communications in German	1	—	2	1	1	8
Total number of short communications	15	20	45	63	67	90
Number of Book Reviews	9	4	13	15	20	17
Number of countries from which authors are drawn	13	11	17	19	20	18

*Commission on Crystallographic Apparatus*

The Commission continued the programme of activities formulated at its meeting held in 1952. A start was made in the establishment of a Central Information Bureau, and two survey articles on 'Protection against X-rays' and 'Fine-focus tubes' were commissioned. An experimental investigation, sponsored by the Commission, has led to the development of a transparent plastic

material of exceptional stability suitable for the preparation of precision crystallographic charts, and a number of such charts have been made available. A further experimental investigation, initiated by the Commission, has as its aim the comparative study of the properties of X-ray films of different makes and types used in crystallographic research. The results of these investigations will be published in due course.

*Commission on Crystallographic Data*

National Data Committees in Great Britain, South Africa, Japan, The Netherlands, Belgium, France and Canada have collaborated with the Commission in carrying out an organized programme to cover data on various compounds. The Commission prepared a series of papers embodying recommended practices for powder diffraction identification for presentation at the Third International Congress.

*Commission on Crystallographic Nomenclature*

The Commission has continued its activities in an advisory capacity.

*Joint Commission on Electron Microscopy*

The Commission made arrangements to hold its first meeting in London during the summer of 1954.

*Commission on Macromolecules of the International Union of Pure and Applied Chemistry*

The Commission has prepared a list of laboratories working on fundamental research on macromolecules. It is intended to keep this list up to date and to reissue it from time to time.

*Commission on Solid-State Physics of the International Union of Pure and Applied Physics*

The Commission made arrangements to hold its first meeting in Bristol in 1954.

**International Council of Scientific Unions**

The Union was represented by R. C. EVANS at the meeting of the Executive Board of the International Council of Scientific Unions held at Strasbourg on 9 and 10 July 1953. At the meeting it was agreed to move the office of the ICSU/UNESCO Liaison Officer from Paris to London and to appoint R. Fraser as Administrative Secretary of ICSU in addition to his appointment as Liaison Officer. It is appropriate at this point once again to record the very warm appreciation of the Union for the most valuable service which he renders in this capacity.

**Finances**

The audited accounts of the Union for 1953 have already been published (*Acta Cryst.* (1954), 7, 727). The Union has again received generous support from UNESCO (£2857) and from Netherlands (£2684) and Swiss (£170) sources. Since the formation of the Union a total of £40775 has been received in this way (£19392 from UNESCO, £8703 from U.S.A. sources, £8677 from British sources, £3833 from Netherlands sources and £170 from Swiss sources) and once again the Union must put on record its deep gratitude to the donors of these generous subventions. The Executive Committee is, however, of

the opinion that the financial state of the Union cannot be regarded as healthy until all its publishing and other activities are conducted on a self-supporting basis, and it is the aim of the Executive Committee to achieve this state of affairs. As for the publishing activities, nothing would be of more help than a substantial increase in the sales of the publications of the Union. These publications may all be purchased direct from the various publishers; orders placed in this way bring the maximum profit to the Union.

The increase in the number of subscribers to *Acta Crystallographica* and the substantial increase in the sales of back numbers resulted in considerably more satisfactory operation in 1953 than in 1952 and the expenditure exceeded income during the year by £1693, compared with £4032 in the preceding year. The *Acta Crystallographica* Account at the end of the year showed a deficit of £3777.

Thanks to the generous subventions from UNESCO and from Netherlands sources, the *Structure Reports* Account showed an excess of income over expenditure during the year of £2019. As a result of this, the accumulated deficit of £477 at the end of 1952 was converted into a credit balance of £1541 at the end of 1953.

Only slight expenses were incurred in the production of *International Tables* during the year and the account showed an excess of income over expenditure of £4588, resulting in an accumulated balance to the credit of this account of £6056 at the end of the year. This will be carried forward and will be used towards the cost of printing Vols. 2 and 3.

Subventions received from Netherlands industrial sources were credited to the General Publications Account, which now shows an accumulated balance of £8821.

The expenses of the Apparatus Commission and expenses associated with the meeting of the Executive Committee were met from the General Fund, which showed an excess of income over expenditure for the year of £407. The accumulated balance to the credit of this fund at the end of the year was £3316.

**Membership of Committees, Commissions and Other Bodies**

The membership of Committees, Commissions and other Bodies on 31 December 1953 was the same as in 1951 (see *Acta Cryst.* (1952), 5, 553), except as follows:

*Commission on Acta Crystallographica*  
Add I. Nitta (Japan)

*Commission on Crystallographic Nomenclature*  
Add E. W. Nuffield (Canada)

[Substantial changes in the membership of the various bodies took place at the Third General Assembly in July 1954 and a list of the current members is contained in the Report of that meeting (*Acta Cryst.* (1954), 7, 609) (see also *Acta Cryst.* (1954), 7, 866).]