

Crystal Descriptions. Cambridge: Heffer. 1956. Price £10 the three parts.

Semiconductors. Report of a meeting held by the Physical Society. Pp. 153 with many figs. London: Physical Society. No date [1957]. Price 20s.

Physical Properties of Crystals. By J. F. NYE. Pp. x+322 with many figs. Oxford: Clarendon Press; Oxford University Press. 1957. Price 50s.

Handbuch der Physik: Encyclopaedia of Physics. Band 32. Structural Research. Edited by S. FLÜGGÉ. Pp. vii+663 with 373 figs. Berlin; Göttingen; Heidelberg: Springer. 1957. Price DM. 144.00.

Elements of Partial Differential Equations. By I. N. SNEDDON. Pp. ix+327 with many figs. New York; Toronto; London: McGraw-Hill. 1957. Price \$7.50; 56s.6d.

Acta Cryst. (1957). 10, 391

International Union of Crystallography

Report of Executive Committee for 1956

Introduction

The most important events in 1956 were the Symposium devoted to 'Structures on a scale between the atomic and microscopic dimensions', held in Madrid in the buildings of the Consejo Superior de Investigaciones Científicas from 2 to 6 April, and the discussions of the Commissions on Crystallographic Apparatus and on Crystallographic Teaching, held concurrently with the Symposium. The meetings were attended by about 225 crystallographers and other scientists from twenty-one countries. The thanks of the Union are due to the Local Committee, of which Prof. A. Durán and Dr Manuel Abbad were respectively President and Secretary, for the many arrangements in connexion with the Madrid meetings, and to the Programme Committee under the chairmanship of Prof. A. Guinier for arranging the scientific programme. At the Symposium fifteen general lectures were given on various electron-microscopic, X-ray and electron-diffraction studies of structures of the order of 100 Å. Special sessions were held during the last two days, at which forty-eight contributions were presented. A more detailed report of the Symposium, and of the meetings of the two Commissions concerned, has already been published (*Acta Cryst.* (1956), 9, 832).

The Executive Committee of the Union also met in Madrid during the first week of April, and so did the Commission on *International Tables*, the Programme Committee for the Fourth International Congress, and the Sub-Committee on the Revision of Statutes and By-Laws. In addition to various routine matters, the chief items of business at the Executive Committee meeting were the arrangements for the Fourth General Assembly and International Congress, to be held in Canada in 1957 (see *Acta Cryst.* (1956), 9, 835); the revision of the Statutes and By-Laws, a first draft of which was circulated to the National Committees shortly after the Madrid meeting; and a review of the various activities of the Union, including its publication programme.

In the year under review the Executive Committee provisionally accepted the application for adherence to the Union received from the Deutsche Akademie der Wissenschaften zu Berlin on behalf of the German Democratic Republic. The twenty-three countries adhering to the Union at the end of 1956, along with their Adhering Bodies and the names and addresses of the Secretaries of the National Committees, are listed in Table 1. At the end of this Report, the membership of the National Committees for Crystallography are given.

Work of the Commissions

Commission on Acta Crystallographica

The increasing amount of work submitted to *Acta Crystallographica* for publication led to an increase of the size of Vol. 9 (1956) over that of the preceding years (1050 pages against 860 in 1955); the improved financial position of the journal rendered this possible without exceeding the income. The volume contains 173 full papers and 91 short communications coming from laboratories in 19 different countries.

The amount of advertising in Vol. 9 was still rather limited, but it is hoped that in the course of the next years more advertisers may use the journal in order to reach practically everyone interested in buying crystallographic equipment.

Commission on International Tables for X-ray Crystallography

Vol. II is now being printed by the Kynoch Press and may be ready for publication late in 1957. A first supplement to Vol. I, giving diagrams for the cubic space groups, is being prepared, and suggestions for further Supplements will be welcomed by the Editorial Commission. The preparation of Vol. III is now well advanced. Meanwhile Vol. I has continued to sell steadily at the

Table I. *Adhering Bodies*

Country	Group*	Adhering Body	Secretary of National Committee
Australia	I	Australian Academy of Science	R. I. GARROD, Aeronautical Research Laboratories, Lorimer Street, Fishermen's Bend, Victoria
Austria	I	Österreichische Akademie der Wissenschaften	F. MACHATSCHKI, Mineralogisches Institut der Universität, Vienna 1
Belgium	III	Académie Royale des Sciences, des Lettres et des Beaux-Arts de Belgique	R. VAN TASSEL, Institut Royal des Sciences Naturelles de Belgique, Rue Vautier 31, Brussels
Brazil	I	Conselho Nacional de Pesquisas	E. TAVORA, Faculdade Nacional de Filosofia, Av. Pres. Antonio Carlos 40, Rio de Janeiro, D. F.
Canada	IV	National Research Council	W. H. BARNES, Division of Pure Physics, National Research Council, Ottawa 2
Chile	I	National Committee for Crystallography	I. GARAYOCHEA, Laboratorio de Cristalografía y Física Molecular, Universidad de Chile, Casilla 147, Santiago
Czechoslovakia	I	Československá Akademie Věd	The Secretary, Československá Akademie Věd, Národní třída 3, Prague 1
Denmark	I	Akademiet for de Tekniske Videnskaber	A. TOVBORG JENSEN, Den Kgl. Veterinær- og Landbohøjskoles Kemiske Laboratorium, Bülowsvej 13, Copenhagen V
France	VII	Académie des Sciences (Institut de France)	H. CURIEN, Laboratoire de Minéralogie-Cristallographie à la Sorbonne, 1 Rue Victor-Cousin, Paris 5
German Democratic Republic†	V	Deutsche Akademie der Wissenschaften zu Berlin†	K. BOLL-DORNBERGER, Deutsche Akademie der Wissenschaften zu Berlin, Rudower Chaussee, Berlin-Adlershof
German Federal Republic	VI	Deutsche Mineralogische Gesellschaft	H. O'DANIEL, Mineralogisches Institut der Universität, Senckenberg Anlage 30, Frankfurt/M.
India	I	Ministry of Natural Resources and Scientific Research	The Secretary, Ministry of Natural Resources and Scientific Research, Government of India, New Delhi
Italy	III	Consiglio Nazionale delle Ricerche	M. FORNASERI, Istituto di Geochimica, Università di Roma, Rome
Japan	IV	Science Council of Japan	T. ITO, Mineralogical Institute, University of Tokyo, Hongo, Tokyo
Netherlands	IV	Stichting voor Fundamenteel Onderzoek der Materie met Röntgen- en Electronenstralen	D. W. SMITS, Laboratorium voor Anorganische en Fysische Chemie, Bloemsingel 10, Groningen
Norway	I	Det Norske Videnskaps-Akademi	I. OFTEDAL, Universitetets Mineralogiske Institutt, Blindern, Oslo
South Africa	I	South African Council for Scientific and Industrial Research	The Officer-in-Charge, Liaison Division, South African Council for Scientific and Industrial Research, P.O. Box 395, Pretoria
Spain	IV	Consejo Superior de Investigaciones Científicas	M. ABBAD Y BERGER, Instituto de Física 'Alonso de Santa Cruz', Serrano 119, Madrid
Sweden	I	Kungl. Vetenskapsakademien	F. E. WICKMAN, Naturhistoriska Riksmuseet, Stockholm 50
Switzerland	I	Société Suisse de Minéralogie et de Pétrographie	W. NOWACKI, Mineralogisch-Petrographisches Institut der Universität, Hermann-Sahlstrasse 6, Bern
U.K.	VIII	The Royal Society	The Secretary of the British National Committee for Crystallography, The Royal Society, Burlington House, London W. 1
U.S.A.	VIII	National Academy of Sciences—National Research Council	G. A. JEFFREY, Department of Chemistry, University of Pittsburgh, Pittsburgh 13, Pa.
U.S.S.R.	VIII	Academija Nauk U.S.S.R.	N. N. SHEFTAL, Institute of Crystallography, Pyževskij 3, Moscow 17

* See Statutes 8 and 10 (*Acta Cryst.* (1954), 7, 613).

† Provisionally accepted as new member by the Executive Committee (see *Acta Cryst.* (1957), 10, 343).

same rate as in 1955. The last return from the publisher showed that until the end of 1956 the total sales of copies of this volume amounted to 1642, of which 543 were at the reduced price for personal use.

Commission on Structure Reports

Vol. 8 (1940–1941) was due for publication in December 1956, but was unfortunately delayed until January 1957. It fills the war-time gap, so that the series is complete from the cessation of *Strukturbericht* to 1950 (Vol. 13).

At its meeting in Madrid the Executive Committee authorized the preparation of a *Cumulative Index* (Vol. 14) for the years 1940–1950. Work is proceeding on

this, and it is hoped to publish it during 1957. Priority is, however, being given to the regular Vol. 15 for 1951.

Commission on Crystallographic Apparatus

The Commission published in October 1956 an *Index* containing the names and addresses of 185 manufacturers of apparatus and materials used in crystallography, and a summarized survey of their products. Two thousand copies of the *Index* have been distributed through the National Committees.

A recommendation on the standardization of goniometer heads was published (*Acta Cryst.* (1956), 9, 976).

The experimental comparison of methods for the ac-

curate determination of lattice parameters will be started shortly under the auspices of the Commission. Some fifteen laboratories of nine different countries have agreed to participate in this project. It is hoped that the first results can be reported at the Montreal Congress.

Commission on Crystallographic Data

Previously mentioned contact with the Joint Committee editing the *X-ray Powder Data File* led to the appointment of the Chairman of this commission as an *ex-officio* member of the Joint Committee. As to the sponsoring of publication of single-crystal data, no final agreement has yet been reached with the editors, who succeeded in finding financial support independent of the Union.

Commission on Crystallographic Nomenclature

The Commission has been inactive in 1956, but plans to meet during the Montreal Congress.

Commission on Crystallographic Teaching

During the year the main activity was the series of meetings held in Madrid along with the Symposium. These meetings were, on the whole, very satisfactory, and even the less successful sessions provided useful experience for future work. The publication of the papers presented at Madrid is in hand as a joint undertaking between the Commission and the Consejo Superior de Investigaciones Científicas; it is hoped that the sales of this will produce some funds which can be used to help the work of the Commission.

Since the Commission has shown the need for its work, it is now necessary to draw up Rules of Procedure to govern its future activities and the election of members; these will be discussed at the Montreal Congress.

Work is also in progress in connexion with the questionnaire on teaching, to which a considerable number of replies has been received. Preparation of the programme for the session on teaching at Montreal is in hand. Other activities include the stimulation of meetings on a national scale in each of the countries represented on the Commission.

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

The International Symposium on Macromolecules in April 1956, which was held in Israel, was attended by about 600 persons, including 150 visitors from 26 countries; 15 full lectures were given and 95 original papers were read. The number of official members of the Commission who attended was too small to justify the formulation of any resolutions; consequently, further discussion of the matters still outstanding on the agenda (detailed in the Report for 1955, see *Acta Cryst.* (1956), **9**, 692) was postponed to the 1957 meeting of the Commission, which will be held during the Paris meeting of the International Union of Pure and Applied Chemistry, 18–24 July. There will be no special Symposium on Macromolecules during this Paris meeting; the next Symposium will be in Prague in September 1957.

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

The Commission continued its work of arranging for the Conference on 'Current problems in crystal physics'. At the kind invitation of Prof. Slater the meeting will be held at the Massachusetts Institute of Technology, Cambridge, Mass., U.S.A., from 1 to 6 July 1957. One of the aims of the meeting is to discuss the experimental and wave-mechanical evidence for non-spherical charge distributions of the atoms in crystals, including anisotropic temperature motion. It is intended to keep the Conference small, namely of the order of about one hundred participants altogether. Some twenty scientists from abroad have been invited and asked to submit reports; others have received notices and have been invited to deliver papers.

Abstracting Board of the International Council of Scientific Unions

The Board held a General Assembly in Chamonix, France, in August 1956, at which provision was made for extending its work to the biological sciences. Preliminary discussions were held concerning international cooperation in mineralogical abstracting.

The International Union of Crystallography, under the present constitution of the Board, is entitled to an Observer at meetings (annual) of its Executive Committee. It is proposed to amend the constitution so that the Union will be entitled only to an Observer at the meetings (triennial) of the General Assembly of the Board.

International Council of Scientific Unions

The Union was represented by Prof. P. P. Ewald at the eighth meeting of the Executive Board of ICSU, which was held in the rooms of the Mairie, Bagnères-de-Bigorre, France, from 16 to 19 June 1956. Large parts of the agenda had to do with matters not affecting the Union of Crystallography, of which the following may be mentioned: the organization of the International Geophysical Year, being by far the largest project falling under the direction of ICSU; the new 'Federation of Astronomical and Geophysical Sciences', the constitution of which was approved; the establishment of a 'Special Committee on Oceanic Research'; the activities of the 'ICSU Abstracting Board', which are at the present confined to the fields of physics and chemistry, but are to be extended to biology in the near future; the decision to maintain the preparatory 'Committee on the Biological Effect of Nuclear Radiation' for another six months so that it may discuss with the 'United Nations Committee on the Effect of Atomic Radiation' the advisability of establishing an ICSU Special Committee; the future policy on Joint Commissions (twelve of these were established during the ten-year period 1946–1956, but only five of them survived); the decision to replace the annual—necessarily small—allocations to four international laboratories under the sponsorship of ICSU by occasional larger grants for specific purposes, and the recognition of the Observatoire du Pic-du-Midi, France, as fifth institution on the list; and the decision to abandon the proposed 1958 Symposium on 'The organization of international science'. After the annual report of the Treasurer was approved, it was decided that the annual dues of the Unions to ICSU be increased from 1% to 2% of their proper income from

their adhering bodies. The need for ICSU to raise supplementary funds from national and international organizations, either private or governmental, in order to support major ICSU projects was discussed, and the recommendations of a small *ad hoc* committee were adopted. The Board also decided on the allocation of the UNESCO subvention for 1957.

Finances

The audited accounts of the Union for the year 1956 are given at the end of this Report. The Union received in that year, as in previous years, generous support in its activities from different sources, and a large debt of gratitude is owed to the donors. A total amount of \$ 5000 was received from UNESCO for meetings and symposia, and for the work of the Commission on Crystallographic Apparatus; this amount includes two subventions of \$ 500 each, which were originally granted, but not spent, in 1955, and could be transferred to 1956. A small part of one of these subventions also remained unspent in 1956, and had to be refunded. The donations further comprised a grant of \$ 2853 from U.S.A. sources, which was credited to the General Publications Fund, and an amount of about \$ 1300 received from Danish, Swiss and U.S.A. sources for the publication of *Acta Crystallographica*.

The *Acta Crystallographica* Account for 1956 shows in comparison with those for previous years an increased income from subscriptions to the journal, in consequence of the continuing increase in the number of subscribers, and an increased income from the sale of back numbers. On the other hand, the increased size of Vol. 9 (1956), and the continuing increase in the printing and other publication expenses, made the cost of publication of this volume about *f.* 9000 higher than the cost of publication of the preceding volume, even though the publishers had agreed to forego their 10% commission on production as from 1956. Other disadvantageous differences were an increase in the editorial expenses and a decrease in the income from advertisements. Without taking the subventions into account, income exceeded expenditure by *f.* 27,557 in 1956, which is about *f.* 1900 less than in 1955. The total excess of income over expenditure amounted to *f.* 32,499 in 1956, which made the accumulated balance of the *Acta Crystallographica* Account increase to *f.* 74,376 at the end of the year.

An amount of *f.* 6827 was received in 1956 from the sale of copies of Vol. I of *International Tables*, which was about *f.* 900 more than the amount received in 1955. The *International Tables* Account for 1956 shows, however, a much smaller excess of income over expenditure than the Account for 1955, in consequence of the cost of binding additional copies and of travelling expenses paid in connexion with an editorial meeting in Madrid. For this reason the accumulated balance of the Account increased only by *f.* 1546, and amounted to *f.* 72,668 at the end of 1956. This balance will be more than sufficient to meet the cost of publication of Vol. II.

Although for some years the selling prices of the volumes of *Structure Reports* have been set at such figures that the cost of production of each volume, including the editorial expenditure, would be recovered within a few years, the effect of this policy is not yet fully reflected in the *Structure Reports* Account, which again in 1956 shows an excess of expenditure over income when the subventions are not

taken into account. The 1956 deficit is, however, smaller than the one in 1955. In the latter year the cost of production of Vol. 9 was paid without any income from sales of copies of this volume. Although with respect to Vol. 8 the same happened in 1956, in this year a large amount was received from the sale of copies of Vol. 9; in 1956 the total income from sales amounted to *f.* 34,781, to be compared with *f.* 18,387 in 1955.

Since it appeared that some years ago a number of donations, together amounting to *f.* 26,000 and earmarked by the donors for the publication of *Structure Reports*, had been credited to the General Publications Fund, the Executive Committee decided that this sum should be transferred to the *Structure Reports* Account. As a result of this transfer, the total income of the Account for 1956 exceeded expenditure by *f.* 16,037, and the accumulated balance increased to *f.* 38,842 at the end of the year.

Thanks to the already mentioned subvention of \$ 2853 (*f.* 10,844) from U.S.A. sources, the accumulated balance of the General Publications Fund did not decrease by the amount of the above transfer but only by *f.* 15,156, and amounted to *f.* 86,486 at the end of 1956.

The expenses in connexion with the Symposium and the other meetings held in Madrid in April 1956 could be met only partly from UNESCO subventions, and formed a heavy charge against the General Fund. The General Fund Account further shows an increase in the expenses for the secretariat as compared with 1955; this increase was mainly caused by a honorarium which the Executive Committee decided to grant to the General Secretary as from 1956. The expenses of the Commission on Crystallographic Apparatus were practically covered by a UNESCO subvention for permanent activities, which was originally granted for 1955. An amount of *f.* 1594 has been charged to the General Fund for depreciation of investments at revaluation. Contrary to previous practice, the investments, except for the Bons du Trésor, are not included at cost on the Balance Sheet, but at their—lower—nominal value, at which they are regularly redeemed. In 1956 the income from interest on the investments was, however, *f.* 1469 higher than in 1955, and amounted to *f.* 4388. An interest of *f.* 695 was further obtained on the deposit account which was opened with the Westminster Bank after the redemption of the holding of £ 6000 2½% National War Bonds 1954/56, and on the current account with the Amsterdamsche Bank. The total income credited to the General Fund remained *f.* 826 below the total expenditure, and this decreased the accumulated balance of the Fund to *f.* 54,680. Heavy charges are expected against the General Fund in 1957 in view of the Fourth General Assembly and International Congress in Montreal, Canada.

With respect to the Balance Sheet as at 31 December 1956, it should be stated that at that date the actual value of the investments, again with the exception of the Bons du Trésor, was lower than their nominal value. They are however included on the Balance Sheet at this latter value because it is not likely that they will be sold at a lower value before they are due for redemption at par. A second remark is to be made with regard to the stocks of unsold copies of *Acta Crystallographica*, *International Tables* and *Structure Reports*. As in previous years, these stocks are mentioned *pro memoria* on the Balance Sheet because it should be kept in mind that they represent a considerable asset which will be converted into money gradually.

Membership of Committees, Commissions and Other Bodies

The membership of the Committees, Commissions and other bodies of the Union on 31 December 1956 was the same as that given in the Report for 1955 (see *Acta Cryst.* (1956), 9, 691), except for the following co-optations:

Commission on Crystallographic Apparatus
Add M. M. UMANSKIJ (U.S.S.R.)

Commission on Crystallographic Data
Add O. KENNARD (U.K.)

Membership of National Committees

Australia

R. I. GARROD (Convener), W. BOAS, J. S. BOWLES, C. J. BIRKETT CLEWS, J. C. JAEGER, J. MCANDREW, A. MCL. MATHIESON, D. P. MELLOR, N. K. NORRISH, A. L. G. REES.

Austria

H. HERITSCH, O. KRATKY, F. MACHATSCHKI, H. NOWOTNY.

Belgium

G. A. HOMÈS (Chairman), S. AMELINCKX, H. BRASSEUR, H. BUTGENBACH, W. DEKEYSER, M. DENAEYER, O. GOCHE, A. HACQUAERT, H. LAMBOT, S. LEFEBVRE, M. VAN MEERSSCHE, J. MÉLON, P. MICHOT, R. DE STRYCKER, R. VAN TASSEL, J. THOREAU, J. TIMMERMANS, J. TOUS-SAINT.

Brazil

R. R. FRANCO, R. SALDANHA, E. TAVORA.

Canada

W. H. BARNES (Chairman), L. G. BERRY, R. L. CUNNINGHAM, F. W. MATTHEWS.

Chile

J. MUÑOZ CRISTI (Chairman), F. G. CANEPA, H. FLORES, I. GARAYCOCHEA, N. JOEL, A. KELLER, G. MUELLER, C. RIVERA, R. VERA.

Denmark

R. W. ASMUSSEN (Chairman), H. BAGGESGAARD RASMUSSEN, H. CLAUSEN, H. HØJGAARD JENSEN, B. JERSLEV LUND, A. NOE-NYGAARD, A. TOVBORG JENSEN, A. UNMACK.

France

A. GUINIER (Chairman), H. CURIEN, S. GOLDSZTAUB, E. GRISON, J. LAVAL, P. OLMER, TH. PETITPAS, A. J. ROSE, C. SORA, J. J. TRILLAT, A. WEILL.

German Democratic Republic

K. BOLL-DORNBERGER (Chairman), F. GÜNTHER, H. NEELS, A. SCHÜLLER, E. THILO.

German Federal Republic

H. WITTE (Chairman), C. HERMANN, H. JAGODZINSKI, M. VON LAUE, H. O'DANIEL, I. N. STRANSKI.

Italy

E. ONORATO (Chairman), A. BELLANCA, G. CAROBBI, M. FORNASERI, A. GHIZZETTI, G. GIACOMELLO, G. PEYRONEL.

Japan

T. FUJIWARA (Chairman), T. ITO, J. KAKINOKI, S. KAYA, M. MIWA, S. MIYAKÉ, Y. MORINO, T. NAGAMIYA, Z. NISHIYAMA, I. NITTA, S. OGAWA, K. OSAKI, R. SADANAGA, I. SAKURADA, G. SHINODA, S. TAKAGI, H. TAKAHASHI, K. TANAKA, R. UÉDA, T. WATANABÉ.

Netherlands

J. M. BIJVOET (Chairman), A. E. VAN ARKEL, W. G. BURGERS, W. F. DE JONG, J. J. DE LANGE, C. H. MACGILLAVRY, J. L. OOSTERHOFF, W. G. PERDOK, J. A. PRINS, G. D. RIECK, D. W. SMITS.

Norway

O. HASSEL (Chairman), T. BARTH, O. BASTIANSEN, H. HARALDSEN, I. OFTEDAL.

South Africa

J. N. VAN NIEKERK (Chairman), W. H. AARTS, L. D. C. BOK, H. B. DYER, D. J. FOURIE, R. W. JAMES, W. R. LIEBENBERG, A. C. LOUW, J. W. MENARY, H. NEL, O. A. TESCHE.

Spain

D. F. PARDILLO (Chairman), M. ABBAD Y BERGER, J. L. AMORÓS, F. CABRERA, J. H. FONT TULLOT, G. MARTIN CARDOSO, L. RIVOIR ALVAREZ.

Sweden

A. WESTGREN (Chairman), G. BORELIUS, C. BROSSET, H. VON ECKERMANN, S. VON FIESEN, S. GAVELIN, A. HADDING, G. HÄGG, S. HJELMQVIST, J. O. LINDE, A. MAGNÉLI, E. NORIN, P. QUENSEL, L. G. SILLÉN, I. WALLER, F. E. WICKMAN, A. ÖLANDER.

Switzerland

R. L. PARKER (Chairman), W. EPPRECHT, O. GRÜTTER, TH. HÜGI, P. MERCIER, W. NOWACKI, A. SPICHER, M. VUAGNAT, ED. WENK.

U.K.

DAME KATHLEEN LONSDALE (Chairman), J. D. BERNAL, G. F. CLARINGBULL, C. A. COULSON, E. G. COX, R. C. EVANS, N. F. M. HENRY, N. F. MOTT, D. A. OLIVER, M. PERUTZ, H. W. L. PHILLIPS, H. M. POWELL, J. T. RANDALL, J. M. ROBERTSON, C. SYKES, W. H. TAYLOR, A. J. C. WILSON.

U.S.A.

E. A. WOOD (Chairman), B. O'BRIEN, M. J. BUERGER, C. L. CHRIST, J. D. H. DONNAY, P. P. EWALD, I. FANKUCHEN, E. W. HUGHES, G. A. JEFFREY, W. N. LIPSCOMB, A. PABST, W. PARRISH, A. L. PATTERSON, B. POST, D. L. SAYRE, C. G. SHULL, D. H. TEMPLETON, R. W. G. WYCKOFF, W. H. ZACHARIASEN.

U.S.S.R.

N. V. BELOV (Chairman), G. B. BOKIJ, V. A. FRANK-KAMENETZKIJ, A. I. KITAJGORODSKIJ, Z. G. PINSKER, N. N. SHEFTAL, A. V. SHUBNIKOV, M. M. UMANSKIJ, G. S. ZHDANOV.

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International Union of Crystallography

Acta Crystallographica Account for the year ended 31 December 1956

	<i>Netherlands Guilders</i>	<i>Netherlands Guilders</i>
Publication Expenses:		
Printing and Binding, Vol. 9, 1956 ... (D. Cr. 140,683.47)	77,375.90	(D. Cr. 214,375.40) 117,906.47
Distribution and Postage ... (D. Cr. 19,451.52)	10,698.34	... (D. Cr. 436.00) 239.80
Insurance on and Repacking of Stock at Cambridge ...	231.51	... (D. Cr. 30,702.00) 16,886.10
	(£ 21.15.2)	... (£ 5) 53.20
	88,305.75	
Editorial Expenses:		
Editorial Honoraria and Secretarial Assistance ...	13,642.50	135,085.57
Office Rent, Postages, Telephone, Stationery, Printing and Sundries	1,707.36	13,558.78
Travelling Expenses ...	119.03	2,067.92
Depreciation of Office Equipment ...	111.68	11,490.86
Cost of Printing Advertisements ... (D. Cr. 2,963.55)	15,580.57	
<i>Excess of Income over Expenditure carried to Balance Sheet</i> ...	1,629.95	4,941.90
	32,498.82	f. 138,015.09
	f. 138,015.09	f. 138,015.09
Publication Expenses:		
Binding additional Copies of Vol. I ...	1,868.65	8,198.65
Sale of Copies of Vol. I 1,353.81
<i>Less</i> Publisher's Commission on Sales		... 17.11
Bank Charges 1,370.92
Editorial Expenses:		
Stationery, Postages and Sundries ...	647.09	6,827.73
Preparation of Diagrams, Fee for Reprinting Table ...	243.13	
Travelling Expenses ...	2,522.20	
	3,412.42	
<i>Excess of Income over Expenditure carried to Balance Sheet...</i>	1,546.66	
	f. 6,827.73	f. 6,827.73
	f. 6,827.73	f. 6,827.73

International Tables Account for the year ended 31 December 1956

Balance Sheet as at 31 December 1956

Liabilities	Netherlands Guilders	Assets	Netherlands Guilders
Sundry Creditors:		Cash at Bank:	
Administrative Expenses	...	Amsterdamsche Bank N.V., including interest on account, due for 1956	6,854.71
Subscription to I.C.S.U., due for 1956	...	Comptoir National d'Escompte de Paris	1,815.74
<i>Acta Crystallographica</i> Account:		First National City Bank of New York	1,382.55
Balance as at 1 January 1956	41,877.22	Westminster Bank Ltd, Cambridge	64,531.30
Add Excess of Income over Expenditure for the year to date	32,498.82		42,427.31
	74,376.04	Cash with Editors and Committees:	115,195.87
<i>International Tables</i> Account:		Technical Editor of <i>Acta Crystallographica</i>	(£ 7. 8.9) 79.13
Balance as at 1 January 1956	71,121.94	General Editor of <i>International Tables</i>	(£ 43. 5.3) 460.31
Add Excess of Income over Expenditure for the year to date	1,546.66	Programme Committee for Fourth International Congress	(£ 113.14.0) 1,209.77
	72,668.60		3,636.90
<i>Structure Reports</i> Account:		Due from:	5,386.11
Balance as at 1 January 1956	22,805.23	N.V. A. Oosthoek's Uitgevers Mij., Utrecht	21,921.24
Add Excess of Income over Expenditure for the year to date	16,037.29	Messrs Ejnar Munksgaard, Copenhagen (D. Cr. 63,266.82)	34,796.75
	38,842.52	The Kynoch Press Ltd, Birmingham...	(£ 202.0.5) 2,149.50
General Publications Fund:		Subscriptions from Adhering Bodies, due for 1956	58,867.49
Balance as at 1 January 1956	101,641.93	Advertisements in <i>Acta Crystallographica</i> , due for 1956, after deduction of Advertising Agent's Commission	1,649.20
Less Excess of Expenditure over Income for the year to date	15,155.94	Investments:	2,061.20
	86,485.99	£3,000 4½% Conversion Stock 1962 (at Par)	31,920.00*
General Fund:		f. 94,000 3% Nederlandsch Indië 1937 (at Par)	94,000.00*
Balance as at 1 January 1956	55,505.70	f. 6,000 4½% Noorwegen 1955 (at Par)	6,000.00*
Less Excess of Expenditure over Income for the year to date	825.96	f. 6,000 4% Unie van Zuid Afrika 1955 (at Par)	6,000.00*
	54,679.74	F. Fr. 500,000. Bons du Trésor à Intérêt Progressif (at Cost)	5,401.43
		Interest accrued thereon	143,321.43
			1,788.83
		Office Equipment at Cambridge, Cardiff and Manchester:	145,110.26
		As at 1 January 1956	521.36
		Additions during the year to date	226.06
			747.42
		Less Depreciation	148.92
		Stocks of unsold Copies of <i>Acta Crystallographica</i> , <i>International Tables</i> and <i>Structure Reports</i>	598.50
			<i>pro memoria</i>
			f. 328,868.63

£ 1 = f. 10.64; \$ 1 = f. 3.80 (UNESCO rates of exchange)

* The investments are valued at par to avoid the necessity of accounting for differences in their quotations each year, and as so far no investments have been sold before they were due for redemption. The quotations as at 31 December 1956 were as follows:

4½% Conversion Stock 1962	...	98½	4½% Noorwegen 1955	...	89
3% Nederlandsch Indië 1937	...	92	4% Unie van Zuid Afrika 1955	...	86

We declare that the above Balance Sheet as at 31 December 1956, and the attached *Acta Crystallographica* Account, *International Tables* Account, *Structure Reports* Account, General Publications Fund Account and General Fund Account, exhibit a true and correct view of the affairs of the International Union of Crystallography.

Groningen, Netherlands
 Ubbo Emmiusingel 75
 9 April 1957

Signed: VAN DIEN, VAN UDEN & Co.

Accountants