

International Union of Crystallography

Report of Executive Committee for 1958

Introduction

The Executive Committee wishes to begin this report by expressing sympathy with the French crystallographers in their bereavement of Professor Charles Mauguin who died in April 1958. His death formed a great loss for the community of crystallographers. Professor Mauguin was one of the members of the International Committee which was set up in 1946 to organize the establishment of the Union. Since the creation of *Acta Crystallographica* he had served on its Advisory Board. A more detailed obituary has been published in this journal (see *Acta Cryst.* (1958), **11**, 513).

On the occasion of the annual meeting of the *Association française de Cristallographie*, seven members of the Executive Committee of the Union met in Paris in the spring of 1958. Although at this informal meeting no decisions could be taken, the exchange of views on the activities of the Union was most valuable, and made it possible to reach decisions quickly by postal ballot.

Later in the year, the Academy of Sciences of the U.S.S.R. extended a cordial invitation to the Union to take part in the commemoration of the great Russian crystallographer E. S. Federov by holding the intermediate Symposia in Leningrad in May 1959. The invitation was accepted with gratitude. As already announced earlier (see *Acta Cryst.* (1959), **12**, 174), one of the Symposia will be devoted to Crystallochemical Analysis and Crystal Chemistry, whereas the topics of the other Symposium are in the field of Electron Diffraction. The second Symposium has been organized in cooperation with the Commission on Electron Diffraction.

The Commission on Crystallographic Apparatus made arrangements for three Conferences; and an invitation from the Karolinska Institutet to hold these meetings in their buildings in Stockholm in June 1959 was gratefully accepted (see also *Acta Cryst.* (1958), **11**, 826).

For the Fifth International Congress and subsequent Symposia, which will be held in Cambridge, England, from 15 to 24 August 1960, a Programme Committee was appointed in 1958, consisting of Dr W. H. Taylor, Chairman, and Professors R. E. Rundle, E. H. Wiebenga and G. S. Zhdanov. This Committee had its first meeting in January 1959. Its recommendations and proposals will be discussed and decided upon by the Executive Committee in Leningrad in May 1959.

The present twenty-two Adhering Bodies, along with the names and addresses of the Secretaries of the National Committees, are listed in Table 1. Four applications for admission to the Union have been received to date; these will be discussed at the Executive Committee meeting, and put to the vote of the General Assembly in Cambridge. In addition information has been received that the arrangements for a representation of the German crystallographers in the Union by one Adhering Body have been successfully completed.

In the next section more details are given about the activities of the various Commissions of the Union.

Work of the Commissions

Commission on Acta Crystallographica

Dr R. C. Evans, who has been one of the founders of *Acta Crystallographica*, and who had served as British Co-Editor and Technical Editor since the journal was launched in 1948, was at his request released of his task by 1 April 1958. The Union owes a deep debt of gratitude to him for the great amount of time and endeavour he devoted to the business of the Union and to *Acta Crystallographica* in particular. For a summary of the work of Dr Evans reference may be made to the two notices which were published on the occasion of his resignation (see *Acta Cryst.* (1958), **11**, 311, 512). The Executive Committee was glad that Professor R. W. Asmussen was found prepared to take over the heavy burden of the technical editorship of the journal from the date mentioned above.

The size of Vol. 11 (1958) of *Acta Crystallographica* was only slightly larger than the one of Vol. 10 (1957), the respective numbers of pages being 907 and 874. However, the December issue of the 1957 volume, comprising 146 pages, was completely devoted to the Fourth General Assembly and International Congress, which was held in Montreal in July of that year. The abstracts of all papers presented at the Congress and the subsequent Symposia were published in that issue. This explains the fact that the number of 152 articles published in Vol. 11 exceeds considerably the 133 articles which were published in Vol. 10. On the other hand, however, Vol. 11 only contained 73 short communications, which is less than for any of the volumes which have appeared since 1953.

Commission on Structure Reports

Volume 14 of *Structure Reports*, the supplementary volume and cumulative index for 1940–1950, was scheduled for publication in December 1958. Though a slim volume (viii+215 pages), it contains much difficult typographical matter, and checking and proofreading have taken longer than originally planned. It actually appeared in February 1959.

The typescript of volume 16 (1952) is nearly complete, and the Metals section is in proof. The typescript of the Metals section of volume 17 (1953) is ready, except for a final checking, but the Inorganic and Organic sections are less advanced.

Discussion of reports on apparatus and techniques has continued within the *ad-hoc* Committee on Apparatus and Technique Reports, and also within the Commissions on Crystallographic Apparatus and on *Structure Reports*. It was felt that review papers were preferable to formal abstracts. The *ad-hoc* Committee has drafted a recommendation for submission to the Executive Committee at its meeting in 1959.

Table I. *Adhering Bodies*

Country	Group*	Adhering Body	Secretary of National Committee
Australia	I	Australian Academy of Science	R. I. GARROD, Aeronautical Research Laboratories, Box 4331, G. P. O., Melbourne
Austria	I	Österreichische Akademie der Wissenschaften	F. MACHATSCHKI, Mineralogisches Institut der Universität, Dr. Karl Luegerring 1, 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, Ont.
Chile	I	National Committee for Crystallography	I. GARAYCOCHEA, Laboratorio de Cristalografía, Universidad de Chile, Casilla 2777, Santiago
Czechoslovakia	I	Československá Akademie Věd	A. LÍNEK, Ústav Technické Fysiky, Československá Akademie Věd, Cukrovarnická 10, Prague 5
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
Germany†	VI	Deutsche Mineralogische Gesellschaft	H. H. W. WITTE, Eduard Zintl Institut, Hochschulstrasse 4, Darmstadt
India	I	Ministry of Scientific Research and Cultural Affairs	The Secretary, Ministry of Scientific Research and Cultural Affairs (Scientific Research Division), 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. WATANABÉ, Physics Department, Faculty of Science, Osaka University, Nakanoshima, Osaka
Netherlands	IV	Stichting voor Fundamenteel Onderzoek der Materie met Röntgen- en Elektronenstralen	D. W. SMITS, Laboratorium voor Anorganische en Fysische Chemie, Bloemsingel 10, Groningen
Norway	I	Det Norske Videnskaps-Akademi	I. OFTEDAL, Institutt for Geologi, Universitet i Oslo, Blindern, Oslo
South Africa	I	South African Council for Scientific and Industrial Research	F. HERBSTSTEIN, National Physical Research Laboratory, 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	A. NIGGLI, Kristallographisch-Mineralogisches Institut E.T.H., Sonneggstrasse 5, Zürich.
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	J. WASER, Department of Chemistry, California Institute of Technology, Pasadena, Calif.
U.S.S.R.	VIII	Academija Nauk U.S.S.R.	N. N. SHEFTAL, Institute of Crystallography, Pyževskij 3, Moscow 17

* See Statute 2-6 (*Acta Cryst.* (1957), **10**, 727).

† The crystallographers of the German Federal Republic and the German Democratic Republic have agreed that they be represented in the Union by one Adhering Body, *viz.* the Deutsche Mineralogische Gesellschaft. This change in membership will be presented to the next General Assembly in 1960.

Commission on International Tables for X-ray Crystallography

Volume II is now almost entirely in page proof and will appear in 1959. Volume III is expected to be ready for printing during 1959. It is not proposed that reprints of selected parts of these two Volumes should be made to sell in quantity for teaching purposes, but authors may negotiate with the publishers for reprints of their own articles.

Commission on Crystallographic Apparatus

The first phase of the international cooperative project on the precision determination of lattice parameters was completed. A report on the results on diamond, silicon and tungsten was circulated and approved; a summary

paper is being prepared for publication in *Acta Crystallographica*. The precision reported by the various laboratories was much higher than the agreement between them (0.013%). Plans for continuing the project are being studied.

The second edition of the *Index of Crystallographic Supplies*, edited by Dr A. J. Rose, was completed and will be published in 1959. It is considerably enlarged and improved over the first edition which was published in 1956.

Plans were formulated to hold meetings of the Commission at Karolinska Institutet, Stockholm, Sweden, from 8 to 12 June 1959. A business meeting will be held during the first day to discuss the following subjects: continuance of the lattice-parameter project; plans for

an international cooperative project on the measurement of X-ray intensities; the third edition of the Index of Crystallographic Supplies which is planned to be published in 1960; problems of standardization of crystallographic equipment; studies of X-ray films, radiation protection, and miniature cameras; and other topics. During the further week three Conferences, each with attendance limited to about fifty people actively working in the fields concerned, will be held to discuss X-ray Wavelength Problems, the Precision Measurement of Lattice Parameters, and Counter Tube Methods for Crystal Structure Analysis. The papers presented at these Conferences will probably be published in full.

Commission on Crystallographic Data

Work of the Commission in connection with both powder and single-crystal data was continued throughout 1958. As a result of growing interest in the indexing of powder-patterns the Commission is discussing the introduction of a new parameter, a reciprocal function of d . Tables of this function are in preparation.

The compilation of the second edition of *Crystal Data*, the determinative tables of cell dimensions, was extended to cover 1958 and is being kept up-to-date. The mathematical transformations of monoclinic and triclinic unit cells have been completed and the calculations of the first edition checked. The cubic, tetragonal and hexagonal systems are typed ready for reproduction and the preparation of the index is also well in hand. The edition in preparation is expected to contain twice as many entries as the first edition.

1958 saw the welcome formation of the National Commission on *Structure Reports* and Crystallographic Data in Japan, under the chairmanship of Professor I. Nitta with Dr R. Sadanaga as secretary. This Commission has undertaken to cover the following fields: pure and applied physics; pure and applied chemistry; mineralogy; ceramic technology and allied sciences; sciences on macromolecules; metallurgy; and pharmaceutical sciences. With the help of this Commission it is hoped to make results of Japanese workers readily and systematically available.

The Chairman and Professor A. J. C. Wilson attended the International Conference on Scientific Information held in November in Washington D.C., (U.S.A.), and notes about the Conference were circulated.

Commission on Crystallographic Nomenclature

The Commission is considering proper terminology for twin-crystal discussion. It is also considering the desirability of finding Hermann-Mauguin-like symbols for colour groups.

Commission on Crystallographic Teaching

Information about visual aids in teaching, such as films, structure models and stereoscopic views, has been collected through the Commission and is now being summarized. A list of books of crystallographic interest has been compiled and will probably be distributed during 1959 in cooperation with the Commission on Crystallographic Apparatus.

The rules of procedure of the Commission are being revised.

Commission on Electron Diffraction

The activities of the Commission have been largely concerned with proposals for electron-diffraction symposia in Leningrad in May 1959, and in Tokyo in September 1961; with the preparation of atomic scattering-factor tables for the *International Tables*; and consideration of requests from the Commissions on Crystallographic Apparatus and on Crystallographic Data.

A set of proposals for the Leningrad symposium were transmitted to the Soviet National Committee for Crystallography following the receipt of their formal invitation by the General Secretary of the Union in August 1958. Correspondence with Prof. S. Miyake has developed tentative proposals for a joint symposium on electron and neutron diffraction in Tokyo in September 1961. It is expected that a formal proposal will be submitted at the Leningrad meeting of the Executive Committee.

Two tables on atomic scattering factors for electrons have been prepared by a committee composed of Dr J. Ibers and Prof. B. K. Vainshtein. It is apparent that a more comprehensive compilation including the formulas required for interpreting intensity data is needed and should be prepared as soon as some questions are settled regarding the application of dynamic scattering theory to structure determination.

It has been proposed that the Commission undertake a consideration of standards for apparatus and techniques (especially for precision measurements of spacings and intensities), the systematic compilation of crystallographic data based on electron-diffraction observations, and the sponsoring of a bibliography.

I.C.S.U. Abstracting Board

The Executive Committee of the ICSU Abstracting Board met in Columbus, Ohio, and Washington D.C. in November 1958. The Russian abstracting journal *Referativnyj Zhurnal* has been accepted as a member journal of the Board. The collaboration with regard to Physics abstracting has been further improved, and the extension of the Board's activities to other subjects discussed. The next meeting of the General Assembly of the Board is expected to be held in Constance, Germany, in July 1959.

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

Under the auspices of this Commission an International Symposium on Macromolecules will be held in Wiesbaden, Germany, from 12 to 16 October 1959.

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

After the complete reorganization of this Commission in the fall of 1957, our Union's representatives have not had any information about activities of this Commission. The participation of the Union in the work of the IUPAP Commission on Solid-State Physics will be discussed by the Executive Committee at its meeting in Leningrad.

International Council of Scientific Unions

Professor A. Guinier and Dr D. W. Smits represented the Union at the tenth meeting of the Executive Board

and at the Eighth triennial General Assembly of ICSU. These meetings were held in Washington D.C., U.S.A., at the National Academy of Sciences—National Research Council, from 30 September to and inclusive 6 October 1958.

A great deal of time was spent on matters relating to the largest project undertaken under the direction of ICSU so far, the International Geophysical Year (IGY), the observation stage of which officially was due to come to an end on 31 December 1958. It was decided that a Special Committee for Inter-Union Cooperation in Geophysics (to be known as SCG) should be set up, which should deal with all aspects of the closing stage of the IGY after the dissolution of the Special Committee for the IGY (the CSAGI) on 30 June 1959. It was further decided that under the name International Geophysical Cooperation 1959 the observational and data collecting activities in the geophysical and related sciences be continued in 1959. The establishment of Special Committees on Oceanic Research (the SCOR), on Antarctic Research (the SCAR), and on Space Research (the COSPAR) were ratified or decided upon. The primary task of these special committees is to further the co-ordination of scientific activity in the fields concerned. Also an International Service for World Days (IWDS) was set up, which should continue some of the work done under the IGY World Days programme.

Another important decision taken by the General Assembly was the adoption of a policy statement reaffirming the purely scientific character of ICSU and of its dependent organisms. The *ad-hoc* Committee which was set up some years ago to consider the definition of the term 'Country' recommended to keep the rather vague definition appearing in the present Statutes of ICSU. With respect to the Statutes and By-Laws, it was agreed that they needed a revision, and a small committee was appointed to study and review the present rules and to make appropriate proposals in advance of the Ninth General Assembly.

Other items of the Agenda were the admission of The Argentine and Bulgaria as new National Members; the establishment of an ICSU Publications Office; the adoption of new rules for Joint Commissions of ICSU, and of rules for its special Committees. The routine business further included the receipt of reports from the Unions, the Special Committees, the Joint Commissions, and of other bodies among which the Federation of Astronomical and Geophysical Services (the FAGS) and the ICSU Abstracting Board; the consideration and approval of various budgets, and of the breakdown of the UNESCO subvention for 1959; and the election of a new Bureau for the triennium 1958–1961.

Finances

The audited accounts of the Union for the year 1958 are published at the end of this Report. The amounts are again expressed in Netherlands Guilders, the following rates of exchange having been used: £1 = *f.* 10.64, \$1 = *f.* 3.80, Fr. Fr. 450 = \$1, D. Cr. 1 = *f.* 0.55, and Sw. Cr. 1 = *f.* 0.73.

A comparison of the *Acta Crystallographica* account for 1958 with the one for 1957 shows that the publication expenses in connection with Vol. 11 were nearly 20% higher than those for Vol. 10. This increase was already

foreseen in the Report for 1957; not only was the printing order increased from 2000 to 3000 copies as from 1958, but in addition the cost of printing the December 1957 issue, which contained the abstracts of the papers presented in Montreal, was lower than the usual cost of an issue of a similar size. It should further be realized that the general price level is still increasing gradually. The publication of the Decennial Index covering the first ten volumes of the journal formed in 1958 an incidental expenditure of *f.* 4324.

The comparison of the accounts for the two years shows that the *de facto* editorial expenditure increased in 1958 by *f.* 3807 over that of 1957. In view of the low editorial remunerations in the first ten years of the journal, this increase is to be considered as a step towards the adjustment of the editorial honoraria to a more adequate level.

It is satisfactory that the number of subscribers to the journal was in 1958 again higher than in previous years. The increase in the nett yield from this source amounted to *f.* 5728. The income from the sale of back numbers was in 1958 slightly less than in 1957, the income from advertisements remained practically the same.

The total effect of all differences between the two accounts is reflected in the decrease of the excess of income over expenditure from *f.* 42,635 for the year 1957 to *f.* 25,544 for the year 1958. Further increases in both the publication and the editorial expenses may lead to even smaller balances for the next years. The accumulated balance of the *Acta Crystallographica* account, amounting to *f.* 142,555 at the end of 1958, forms however a safe reserve. A readjustment of the selling prices of the back volumes, in particular of those for the first four volumes, is being discussed.

The *Structure Reports* account for 1958 shows an excess of income over expenditure amounting to *f.* 17,867, which is slightly less than the balance of the 1957 account. A comparison of the two balances is, however, not justified. Practically no publication expenses were paid in 1958, as no volume appeared in that year, whereas to the 1957 account a publication expenditure of *f.* 20,736 was charged with respect to Volume 15. Also a great deal of the editorial expenditure is paid at irregular intervals, because the abstractors' honoraria are paid on the basis of the numbers of reports received from them. The large difference between the editorial expenditure in 1958 (*f.* 37,910) and in 1957 (*f.* 21,729) has therefore not been caused by higher remunerations in 1958, but by a settlement of a larger number of abstracts.

It is evident that also the income side of the *Structure Reports* account may show quite a different picture from year to year. During the first months after the appearance of a volume many more copies of that volume are sold than during any later period of the same length. In addition, the various volumes are sold at different prices. A comparison of the income sides of the *Structure Reports* accounts for successive years is however interesting to follow the sales of the older volumes. It appears that in 1958 more copies were sold of the three volumes 10, 11 and 12 than in 1957, and that Volume 13 was sold in 1958 only slightly less than in 1957.

Examining the expenditure and income for each individual volume, the financial situation may be called satisfactory. It is likely that the selling prices of the next volumes to appear can be set at a slightly lower level

than those of volumes 8 and 15. The introduction of a reduced price for individual buyers and, on the other hand, a readjustment of the ordinary selling prices of the older volumes are under consideration.

The *International Tables* account for 1958 shows that the sale of copies of Volume I (issued in 1952) is continuing at a satisfactory level. These sales even increased from 167 copies in 1957 to 195 copies in 1958. Except for the amount of f. 1490 for the binding of 200 additional copies, practically no expenses were charged to the 1958 account. The accumulated balance in the *International Tables* account increased to f. 82,235 at the end of 1958. This amount will be needed for the production of Volume II, which is due to appear in 1959.

As no subventions were received in 1958 for the credit of the General Publications Fund, not any expenses charged to it, the accumulated balance of this account remained at f. 86,486.

The General Fund account for 1958 shows an excess of income over expenditure of f. 22,950, which is slightly less than the total income received in that year from the subscriptions from the Adhering Bodies. No meetings were held in 1958, and the total income from investments and interest on banking and deposit accounts was almost sufficient to cover the administrative expenditure and the incidental travelling expenses. The accumulated balance in the General Fund amounted to f. 69,133 at the end of 1958.

In view of the various meetings planned for 1959, quite a different picture may be expected for the General Fund account for that year, and heavy expenses can be expected again in 1960 in connection with the Fifth General Assembly and International Congress. It is likely, however, that over the three-year period 1957-1959 the deficit in the General Fund will be smaller than was anticipated at the Fourth General Assembly in Montreal in 1957.

The subvention received in 1958 through ICSU from UNESCO has not been credited to the General Fund account, but appears as a liability on the Balance Sheet. Approval has been obtained that this subvention be used in 1959 for travelling and subsistence expenses in connection with scientific meetings. Any unspent part has, however, to be refunded. Also the welcome donation of the sum of f. 8,003 by the Canadian National Committee as the balance of funds for the 1957 meetings in Montreal, has been included on the credit side of the Balance Sheet; the destination of this donation has not yet been decided upon by the Executive Committee.

The larger part of the balances with the various banks are placed on deposit accounts, namely, at the end of 1958, f. 100,000 with the Amsterdamsche Bank N.V., \$19,901 with the First National City Bank of New York, Sw. Cr. 55,692 with the A.B. Svenska Handelsbanken, and £1424 with the Westminster Bank Ltd. Unfor-

tunately the interest on some of these deposit accounts has decreased during 1958, and the possibility of investing part of the funds in suitable, readily negotiable bonds is considered. The present holdings are again valued at par on the Balance Sheet, although the actual value of the investments was still lower than their nominal value; it is not likely, however, that they need to be sold below par before they are due for redemption. In 1958 f. 4,000 of the holding of the 3% bonds Nederlandsch Indië 1937 were redeemed.

The amounts due from the three publishers of the Union's publications represent the balances of the 1958 accounts with these firms; the sums have meanwhile been received. The stocks of unsold copies of *Acta Crystallographica*, *Structure Reports* and *International Tables* are again mentioned *pro memoria* on the Balance Sheet. They represent, however, a considerable asset which is gradually being converted into cash.

Membership of Committees, Commissions and Other Bodies

Except for the additions already stated at the end of the Report for 1957 (see *Acta Cryst.* (1958), **11**, 571), the membership of the bodies of the Union, and the names of the representatives on bodies not belonging to the Union, can be found in the Report on the Fourth General Assembly and International Congress (see *Acta Cryst.* (1957), **10**, 721). A regrettable omission has, however, occurred in the list, and the following correction should be made:

Commission on International Tables

Add as Co-Editor: J. KASPER (U.S.A.)

Membership of National Committees

Since the membership of the National Committees for Crystallography have been published at the end of the Report for 1956 (see *Acta Cryst.* (1957), **10**, 395), and in two additional notes (see *Acta Cryst.* (1957), **10**, 719; (1958), **11**, 128), the following changes have been reported:

Germany†

(both States)

F. LAVES (Chairman), K. BOLL-DORNBERGER (Vice-Chairman), H. WITTE (Secretary), R. BRILL, H. JAGODZINSKI, F. LIEBAU, W. KLEBER, H. O'DANIEL, H. RAETHER, G. E. SCHULZE, E. THILO.

U.S.A.

Add: J. DONOHUE

† See note on p. 616.

Acta Cryst. (1959). 12, 620

International Union of Crystallography

Acta Crystallographica Account for the year ended 31 December 1958

	<i>Netherlands Guilders</i>	<i>Netherlands Guilders</i>
Publication Expenses:		
Printing and Binding, Vol. 11, 1958	(D. Cr. 158,827.12)	(D. Cr. 242,859.16)
Printing and Binding Decennial Index	(D. Cr. 7,862.12)	(D. Cr. 54.00)
Distribution and Postage	(D. Cr. 19,265.52)	(D. Cr. 38,605.47)
Insurance on Stock at Cambridge;		
Shipping Back Volumes to Copenhagen	982.39	154,835.25
	<u>103,257.51</u>	<u>15,483.52</u>
Editorial Expenses:		139,351.73
Editorial Honoraria and Secretarial Assistance	17,830.11	
Office Rent, Postages, Telephone, Stationery, Printing and Sundries	2,063.51	
Travelling Expenses	686.40	
Depreciation of Office Equipment	448.03	
Cost of Advertisements	(D. Cr. 3,489.60)	(D. Cr. 3,000.00)
	<u>21,028.05</u>	<u>1,650.00</u>
Income from Advertisements		12,721.60
Less Advertising Agent's Commission		<u>1,974.67</u>
		10,746.93
Subvention from Danish Source		
	<u>1,919.28</u>	
	<u>25,543.82</u>	
	<u>f. 151,748.66</u>	<u>f. 151,748.66</u>

Structure Reports Account for the year ended 31 December 1958

Publication Expenses:			
Binding additional Copies of Volumes 11 and 12	848.75		8,049.00
Editorial Expenses:			4,718.00
Editorial Honoraria, Abstractors' and Assistants' Salaries	36,166.12		2,515.42
Subscriptions to Journals, Photocopies	360.43		2,754.40
Stationery, Postages and Sundries	312.51		2,200.08
Travelling Expenses	968.71		5,118.50
Depreciation of Office Equipment	102.71		<u>45,587.25</u>
	<u>37,910.48</u>		70,942.65
	<u>17,866.80</u>		<u>14,316.62</u>
		56,626.03	
<i>Excess of Income over Expenditure carried to Balance Sheet</i>			<u>f. 56,626.03</u>

International Tables Account for the year ended 31 December 1958

Publication Expenses:				
Binding additional Copies of Volume I				Netherlands Guilders
		1,489.60		9,229.67
Editorial Expenses:				170.24
Stationery, Postages, Photocopies and Sundries	140.42			9,399.91
Travelling Expenses	53.20			
		193.62		1,528.57
		6,133.10		55.02
<i>Excess of Income over Expenditure carried to Balance Sheet</i>				1,583.59
				7,816.32
				<u>f. 7,816.32</u>

General Fund Account for the year ended 31 December 1958

Administrative Expenses:				
Honorarium General Secretary and Secretarial Assistance	4,175.33			23,362.70
Auditors' Fees	844.79			
Postages, Stationery, Printing and Sundries	458.52			825.93
Bank Charges and Differences on Exchange	330.69			2,440.00
				255.00
		5,809.33		240.00
Incidental Travelling Expenses of Officers	3,382.22			
Expenses of Commission on Crystallographic Data	109.37			3,760.93
				5,127.60
		22,950.31		
<i>Excess of Income over Expenditure carried to Balance Sheet</i>				<u>f. 32,251.23</u>

Subscriptions from Adhering Bodies

Interest on Investments:

4½% Conversion Stock 1962

3% Nederlandsch Indië 1937

4½% Noorwegen 1955

4% Unie van Zuid Afrika 1955

Interest on Banking and Deposit Accounts

Balance Sheet as at 31 December 1958

Liabilities

Sundry Creditors:

Administrative Expenses
Acta Crystallographica Expenses

Subvention from UNESCO, granted for 1958, to be spent in 1959
Balance of Funds for Fourth General Assembly and International Congress, donated by Canadian Local Committee but destination not yet determined (\$ 2,106.01)

Acta Crystallographica Account:

Balance as at 1 January 1958
Add Excess of Income over Expenditure for the year to date

Structure Reports Account:

Balance as at 1 January 1958
Add Excess of Income over Expenditure for the year to date

International Tables Account:

Balance as at 1 January 1958
Add Excess of Income over Expenditure for the year to date

General Publications Fund:

Balance as at 1 January 1958

General Fund:

Balance as at 1 January 1958
Add Excess of Income over Expenditure for the year to date

Assets

Cash at Bank:
Amsterdamsche Bank N.V., Groningen, Guilders account, including interest on account due for 1958
Amsterdamsche Bank N.V., Groningen, Dollar account

Comptoir National d'Escompte de Paris (Fr. Fr. 81,457.00) (\$ 1,320.00) 5,016.00
First National City Bank of New York (\$ 22,865.89) 687.86
A.B. Svenska Handelsbanken, Stockholm (Sw. Cr. 55,692.07) 40,655.21
Westminster Bank Ltd, Cambridge (£ 1,552. 2. 0) 16,514.35

204,157.88

Cash with Editors and Commissions:

Technical Editor of *Acta Crystallographica* (D. Cr. 4,090.38) 2,249.71
Editor of *Structure Reports* (£ 221.19. 0) 2,361.55
Editor of *International Tables* (£ 50. 7. 8) 536.08
Commission on Crystallographic Data (£ 19.14. 5) 209.83

5,357.17

Due from:

N.V. A. Oosthoek's Uitgevers Mij, Utrecht 54,620.38
Messrs Einar Munksgaard, Copenhagen (D. Cr. 54,170.05) 29,793.53
The Kynoch Press Ltd, Birmingham (£ 226. 6. 8) 2,408.19

86,822.10

Advertisements in *Acta Crystallographica*, due for 1958, after deduction of Advertising Agent's Commission 3,732.78

Investments:

£ 3,000 4½% Conversion Stock 1962 (at Par) 31,920.00*
f. 81,000 3% Nederlandsch Indië 1937 (at Par) 81,000.00*
f. 6,000 4½% Noorwegen 1955 (at Par) 6,000.00*
f. 6,000 4% Unie van Zuid Afrika 1955 (at Par) 6,000.00*

124,920.00

1,463.47

126,383.47

Office Equipment:

As at 1 January 1958 520.00
Add Additions during the year to date 2,020.54

2,540.54

Less Depreciation and sold 630.54

1,910.00

Stocks of unsold Copies of *Acta Crystallographica*, *Structure Reports* and *International Tables* *pro memoria*

f. 488,363.40

f. 488,363.40

Rates of Exchange: £ 1 = f. 10.64; \$ 1 = f. 3.80; Sw. Cr. 1 = f. 0.73;
D. Cr. 1 = f. 0.55 (UNESCO rates)

* 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 1958 were as follows:

4½% Conversion Stock 1962 ... 100½½ 4½% Noorwegen 1955 88½
3% Nederlandsch Indië 1937 ... 94¼ 4% Unie van Zuid Afrika 1955... 84¼

We declare that the above Balance Sheet as at 31 December 1958, and the attached *Acta Crystallographica* Account, *Structure Reports* Account, *International Tables* Account and General Fund Account, exhibit a true and correct view of the affairs of the International Union of Crystallography.

Ubbo Emmiusingel 75, Groningen, Netherlands. 20 April 1959

Signed: VAN DIEN, VAN UDEN & Co. Accountants