In February 1982 Professor E. F. Bertaut retired as Director of the Laboratoire de Cristallographie, CNRS, Grenoble. Professor Bertaut was a member of the IUCr Executive Committee between 1975 and 1981. He was also involved in the establishment of the Commission on Charge, Spin and Momentum Densities, being its first Chairman between 1975 and 1978, and has worked for many years with other members of the Commission on International Tables in the preparation of a new volume of this publication on direct space.

Sir Charles Frank, formerly Henry Overton Wills Professor of Physics at the University of Bristol, has been awarded the Guthrie Medal and Prize of the British Institute of Physics for his extensive contributions to the physics of solids.

The Charles Vernon Boys Prize of the British Institute of Physics for 1982 has been awarded to Dr B. J. Isherwood of GEC's Hirst Research Centre for his development and use of X-ray topography and multiple diffraction in the diagnosis of surface behaviour and crystalline quality.

International Union of Crystallography


Commission on Journals

Chemical Formulae and Nomenclature

Authors are reminded that chemical formulae and nomenclature in papers submitted to Acta Crystallographica and Journal of Applied Crystallography should conform to the rules of nomenclature established by the International Union of Pure and Applied Chemistry (IUPAC), the International Union of Biochemistry (IUB) and other appropriate bodies. As far as possible the crystallographic nomenclature should correspond to the systematic name. A structural formula should generally be given for all organic and organometallic compounds.

All papers in Acta Crystallographica, Section B, reporting crystal structure determinations and all Crystal Data in Journal of Applied Crystallography should include the approved name(s) of the compounds in the title of the paper or in a footnote to the title. Any paper in Acta Crystallographica, Section A, or in Journal of Applied Crystallography dealing with the crystal physics or the properties of a particular material should also include the approved name of the compound concerned. It is desirable that any accepted trivial name, trade mark, recommended International Nonproprietary Name (INN), United States Adopted Name (USAN) or British Pharmacopoeia Approved Name be retained, but the corresponding systematic (IUPAC) name should be provided. For a list of available nomenclature sources see J. Appl. Cryst. (1979). 12, 640. [Approved Names 1977 – a list of approved names for pharmaceutical compounds with their corresponding systematic (IUPAC) names, published for the British Pharmacopoeia Commission – is available from Her Majesty's Stationery Office.]

Assistance in the naming of compounds in accordance with IUPAC and IUPAC-IUB rules may be obtained from Dr K. L. Loening, Director of Nomenclature, Chemical Abstracts Service, PO Box 3012, Columbus, Ohio 43210, USA; from Mr E. W. Godly, Chemical Nomenclature Advisory Service, CNAS, Laboratory of the Government Chemist, Department of Industry, Room A-510, Cornwall House, Stafords Street, London SE1 9NQ, England; and in the particular naming of inorganic compounds from Professor Y. Jeannin, Laboratoire de Chimie des Métaux de Transition, Université Pierre et Marie Curie, 4 place Jussieu, 75230 Paris CEDEX 05, France. Enquiries may also be addressed to Dr J. E. Derry, International Union of Crystallography, 5 Abbey Square, Chester CH1 2HU, England. If advice on chemical nomenclature is sought from any of the above advisory sources authors are requested, when submitting a manuscript to the Union's journals, to indicate the source consulted.


Commission on Journals

Decisions taken at meeting in Ottawa, August 1981

The attention of authors planning to submit papers to Acta Crystallographica or Journal of Applied Crystallography is drawn to the following decisions taken by the Commission on Journals at meetings held in Warsaw, 14-16 August 1981. These and other revisions in editorial policy since 1978 will be published in a new version of Notes for Authors, which is presently in preparation.

International Symbols for Units

The Commission has recognized that, although multiples of 10⁻² are the preferred prefixes in the SI System of Units, the centimetre is not prohibited by the SI system and therefore density and absorption coefficients may be given in units of cm⁻³ and cm⁻¹ respectively, if authors so wish. In all other cases, however, authors are asked to use the recommended prefixes of decimal multiples and submultiples of the SI units rather than using " x 10⁻²":

Structural papers

Estimated standard deviations for Bₑₑₑₑ:

The requirement of estimated standard deviations on equivalent values of the Debye-Waller factor was reviewed. The Commission agreed that the significance of such estimated standard deviations is ambiguous. In the case of high anisotropy, the estimated standard deviation is necessarily large although the individual anisotropic parameters may be well determined. In future, the presence of unusual anisotropy should be referred to in the text (including the maximum and minimum amplitudes and any nonpositive-definite coefficients found), or in the table of Bₑₑₑₑ (by use of an asterisk), or illustrated by a plot of the atomic vibrational ellipsoids.

Calculated hydrogen-atom coordinates: Calculated hydrogen-atom coordinates will be published in future only at the Co-editor's discretion and if they are necessary to the understanding of the paper. They will otherwise be deposited.

Graphical chemical formulae: A graphical structural formula should always be given in the report of a structure determination of an organic or organometallic compound. The figure showing the atomic positions is not adequate for this purpose. However, a plot of the atomic vibrational ellipsoids can be used to illustrate atomic positions. Authors should ensure that such plots are of good contrast and quality. The numbering of atoms should be consistent throughout a paper and, as far as possible, correspond to the systematic name [J. Appl. Cryst. (1982). 15, 250].

Least-squares planes: Least-squares planes and the deviations from them will only be published if they are referred to in the text of the paper and are significant in the consideration of the structure. They will otherwise be deposited.

Absorption correction: In a structural paper the absorption correction, if any, should always be described and the maximum and minimum corrections stated.

Melting point: In a structural paper the melting point of a compound should always be given if it is known.

Stereohedra: The requirement on stereohedra is one per structure unless the Co-editor and referees feel that more are necessary for the understanding of the structure described in the paper. These stereohedra must fit into a single
column (80 mm wide). Authors are re-
minded that a nonstereo view (half a pair) is often an acceptable alternative to
the stereo pair. In stereo pairs the relative
sizes of the molecule and the whole
figure should be such that when the
figure is printed in a column of 80 mm,
the individual atoms are easily distin-
guishable. The center-to-center separa-
tion in stereofigures must not exceed
55 mm.

In a charge density paper only one or
two figures are required to illustrate the
techniques or results described: any
others will be deposited. The text should
be adequate to give the remaining
information.

Figures
Size: Illustrations should normally pre-
sent information so that each figure or
part of a figure can be printed in one
column (80 mm width). Coeditors will
need to be satisfied that the information
density is high enough, if authors wish
figures to be printed larger than this.

Half-tone illustrations: When a paper in-
cludes half-tone illustrations (photo-
graphs), particularly diffraction photo-
graphs, authors are asked to indicate on
a photocopy which are the important
parts of the figure, so that these may be
given the correct emphasis when the
paper is printed.

The attention of authors is also drawn to
notices concerning stereofigures [Acta
Cryst. (1978). B34, 3846], dimensions of
material for deposition [J. Appl. Cryst.
(1979). 12, 261], estimated standard devi-
ations, SI units and anisotropic thermal
parameters [J. Appl. Cryst. (1979). 12,
317–318], submission of connected com-
2284–2285], chemical-connectivity rela-
1524], estimated standard deviations
with a zero value for varied parameters
for the publication of powder pattern data
[J. Appl. Cryst. (1981). 14, 1216–217], de-
position of macromolecular atomic coor-
dinates and structure factors with the
B37, 1161], submission of manuscripts
based on powder diffraction profile fitting
or refinement (Rietveld) methods: de-
14, 216], and deposition of Crystal Data [J.
Appl. Cryst. (1982). 15, 139], in addition to
the information given in Notes for
157].


Fifty Years of Electron Diffraction

Fifty years of Electron Diffraction was published in 1981 by D. Reidel Publishing
Company for the International Union of
Crystallography and is edited by Peter
Goodman, CSIRO, Melbourne, Australia.
This important publication is the first of
its kind to present the history and the
current status report of this rapidly grow-
ing subject. It provides a valuable refer-
ence source for students and researchers in
the associated fields of crystallography,
scattering physics, molecular structures in
gases and the electron microscopy of solids. Part I gives a lively, newly
researched account of the pioneer
period, 1924–1928, when industrial re-
search and early quantum mechanics
produced the first definite evidence for
electron diffraction. Part II completes the
history with memoirs from 36 of the most
distinguished scholars in the field.
Part III is a text-level reference on six
branches of the subject, ranging from
scattering theory through to structure
analysis. Liberally illustrated, the vol-
ume incorporates a comprehensive
literature survey.

Both cloth- and paper-bound copies
are available at 155 and 80 Netherlands
guilders respectively. Copies may be
ordered from the publishers, D. Reidel
Publishing Company, PO Box 17,
3300 AA Dordrecht, The Netherlands or
from any bookseller.


Molecular Structures and
Dimensions

The International Union of Crystallography and
the Cambridge Crystallographic Data
Centre have published Volume 12 of the
series, entitled Bibliography 1979–80,
Organic and Organometallic Crystal Struc-
tures. It contains bibliographic information
on 3836 structures published during 1979–
1980. As in previous volumes the entries
are arranged in 66 chemical classes and
cover organic compounds, complexes
and organometallic compounds. There
are extensive indexes for authors, com-
 pound names and formulae.

The price of the new volume is 100
Netherlands guilders. Personal copies
may be purchased at a reduced price of
75 Netherlands guilders. Copies are
available directly from D. Reidel
Publishing Company, PO Box 17,
3300 AA Dordrecht, The Netherlands, or
from any bookseller. Trade orders
should be sent to Reidel.


Structure Reports

Volume 44B of Structure Reports has
recently been published. It covers the
literature for organic compounds for
1978, is bound in two parts (572 pages
and 707 pages) and costs 374
Netherlands guilders for subscribers
with standing orders. The full price for
individual copies is 440 guilders but per-
sonal subscribers may buy a copy for
their own use at 220 guilders.

Orders for these publications may be
placed direct with the publisher,
D. Reidel Publishing Company, PO Box
17, 3300 AA Dordrecht, The Netherlands,
or with any bookseller. Trade orders
should be sent to Reidel.

Notes and News

Announcements and other items of crystallographic
interest will be published under the heading at
the discretion of the Editorial Board. The notes (in
duplicate) should be sent to the Executive Secretary of
the International Union of Crystallography (J. N. King,
International Union of Crystallography, 5 Abbey Square,
Chester CH1 2HU, England).


Seventh European
Crystallographic Meeting
Book of Abstracts

The Seventh European Crystallographic
Meeting will take place in Jerusalem,
Israel, from 29 August to 3 September
1982. The Book of Abstracts will be avail-
able to non-participants at a price of
US$18.00 including airmail postage.
Orders, which must include the words
‘Book of Abstracts’, should be sent, no
later than 1 July 1982, to ECM-7, PO Box
29313, 61292 Tel Aviv, Israel. Either a
cheque payable to ECM-7 should accom-
pany the order or payment should be
made by bank transfer to ECM-7, Israel
Discount Bank, 4 Rothschild Blvd.,
66881 Tel Aviv, Account No. 343900.

For further information on the meeting
write to ECM-7, PO Box 29313, Tel Aviv
61292, Israel.