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Autumn brings with it meetings of individual Groups, and in particular the first solo meetings organised by the two new Groups - the Biological Structure on 22nd September and the Industrial on 10th November. In August, the 8th ECM was held in Liège - a fuller account is included in this issue. The BCA had nominated Dr Olga Kennard to represent UK crystallographers on the European Crystallographic Committee, which met during this conference.

Next year in August, the 13th Congress and General Assembly of the IUCr will take place in Hamburg. I have been in touch with several travel firms to see if there are any advantages in arranging group travel to this meeting, as compared to the use of AFFEX fares which allow individuals to make their own arrangements. Whon 1984 prices have been fixed by the airlines, a more detailed announcement will be made in Crystallography News.

Now that the programme of seeking financial aid from Industry to help establish the BCA seems to have run its course, I will summarise its scope and results. By my count, a total of 195 companies were approached, of which 32 responded positively to give a total of £12,300 to the BCA. The individual donations varied from £100 to £300. It is clear that a number of other companies would have helped were they not themselves in more difficulty. Several colleagues, in particular Dr Brian Isherwood, helped me in providing names of people to approach, and the letters were sent by our President. The massive task of trying all the initial letters, and dealing with any ensuing correspondence, was carried out by the President's secretary Mrs P. Batchelor - to whom the Association owes a debt of gratitude. This programme was the most important contribution to establishing a sound financial basis for the BCA.

Finally a word about membership. The By-laws state that new Ordinary Members paying their subscription between 1st October and the end of the year, do not have to pay any subscription for the ensuing calendar year. This is therefore a good time to seek new recruits, and with this in mind a pocket-size information pamphlet is being prepared for distribution to Groups or anyone who is interested.

Andrzej Skapski

BCA NEWS

BCA COORDINATING COMMITTEE

This committee was set up by the BCA to take over the coordinating functions hitherto carried out by the United Kingdom Crystallographic Council (which has now been dissolved). It had its first meeting on 10th November under the chairmanship of Dr. S.C. Wallwork, who was the last chairman of the UKCC. Most of the organisations formerly represented on the UKCC have agreed to be represented on the new Coordinating Committee and there are a number of new representatives, including those of the Industrial Crystallography Group and the Biological Structure Group recently set up by the BCA. This situation is still slightly fluid but at present there are at least 14 representatives and a complete list will be published in the next issue of 'Crystallography News'.

The main purpose of the committee is to alert its associated organisations to possible clashes of dates and topics, when planning meetings of possible crystallographic interest. To assist this process, the chairman has prepared and circulated to these associated organisations, a computer listing of a wide range of future meetings planned by all the bodies concerned. This includes all the tentative plans as well as firm meetings, since it is only the former that can be changed if any serious clashes are detected. Being held in a computer file, this list can be modified and up-dated very readily and it is hoped to distribute revised lists about four times a year.

The spin-off from this process is that there is a wider interchange of information among member organisations, with the chance of enhanced publicity.

It is felt that this interchange of meetings information by post will be sufficient for the normal business of the committee, but there will be an annual meeting of representatives in addition, probably associated with the annual meeting of the BCA.

S.C. Wallwork
INDUSTRIAL GROUP OF BRITISH CRYSTALLOGRAPHIC ASSOCIATION

Autumn Meeting 1983: Crystallography in Industry
Thursday, 10th November, BP Research Centre, Sunbury-on-Thames

PROGRAMME

10.00 REGISTRATION AND COFFEE
10.30 Introduction
10.40 X-Ray Diffraction at BP - G.W. Smith and D. Wood
11.15 Crystallography of Industrial Zeolite Powders
   B. Beagley, J. Deyer - UMIST
11.40 Neutron Diffraction Studies of UO₂ B.T.M. Willis - Harwell
12.05 Measurement of Internal Stress Using High Resolution Neutron Diffraction - A.J. Allen, M.T. Hutchings,
   C.S. Windsor - Harwell
12.30 LUNCH
13.45 Solving Laue Diffraction Patterns by Microcomputer
   P. Fewster - Philips Research Laboratories
14.00 The Role of X-ray Topography in the Study of the Growth
   of High Purity Quartz - J.M. Holt, D.F. Croxall
   GEC Hirst laboratories
14.20 Analysis of Crystalites in Thin Oxide Films Using
   Combined EDA and Microdiffraction in a STEM - I.F. Ferguson
   Springfields Nuclear Power Development Laboratories.
15.00 TBA
15.15 Workshop: Diffraction Problems in Industry
   Topics will include:-
   (a) "The Right Tool for the Job" - Competing Analytical
      Techniques
   (b) Cost Effectiveness
   (c) Expediency Versus Rigour
   (d) ---------------------------------

Conference fee, including lunch and refreshments is:-
Member of Industrial Group of the BCA £12.00
Non-Members £15.00
Students £7.00

The registration form is included in this issue of the newsletter.
The Physical Crystallography Group is organizing a Symposium on DIFFRACTION STUDIES OF MATERIALS as part of the conference.

The Symposium runs from 09 45h on Wednesday 14 December through to midday on Thursday 15 December and includes two Plenary Talks by Professor Sir Peter Hirsch, PRS (Chairman, U.K.A.E.A) and Professor A. Authier.

Offers of contributed papers for the Symposium should be sent to:

Dr C. Eanesen
GHC First Research Centre
East Lane
Wembley
Middlesex HA0 7PP
by 1 November 1983.

The Registration Fees for the conference are:

Members £15 for 1-day; £26 for 3-days
Student Members £10 £18

Further details and registration forms may be obtained from:

Mr W. Wells
Clarendon Laboratory
 Parks Road
Oxford OX1 3PU

THE INSTITUTE OF PHYSICS
SOLID STATE PHYSICS SUB-COMMITTEE

SOLID STATE PHYSICS CONFERENCE
14-16 DECEMBER 1983

Department of Experimental Psychology
University of Oxford

THE PHYSICAL CRYSTALLOGRAPHY GROUP

BCA MEETING - NOTTINGHAM UNIVERSITY
2nd - 5th April, 1984

The Spring Meeting of the BCA will be held at Nottingham University, which is on a large open parkland campus 2 miles west of Nottingham. The scientific sessions will be based in the Chemistry Department and accommodation has been arranged in nearby Lenton Hall. Being roughly in the middle of England it is readily accessible by road (M1), rail and air (East Midlands Airport). An important point to note in the timing is that this is not the traditional week before Easter. Easter is so late in 1984 that to have held the conference there would have trespassed into Scottish University terms!

The conference will follow the same successful format as this year's at Royal Holloway College, with consecutive sessions organised by the constituent groups of the BCA. However, the changes have been rung by varying the sequence of the presentations. After registration and lunch on Monday 2nd April, the first afternoon will be devoted to the Physical Crystallography Group. Tuesday morning is the turn of the Industrial Group with the Chemical Crystallography Group on Wednesday morning and finally the Biological Structures Group are on Thursday morning.

In addition, there will be poster sessions, ad hoc meetings, a plenary lecture, conference dinner, etc. Each group has appointed a representative on the Steering Committee to organise its own sessions. These are:

Chemical Crystallography - David Russell (University of Leicester);
Physical Crystallography - Paul Fawcett (Phillips Research, Redhill);
Biological Structures - Guy Dodson (University of York); Industrial Crystallography - Keith Bowen (University of Warwick) and John Harding (British Rail, Derby). The local organiser is Mike Begley from the Chemistry Department at Nottingham University. Full details and registration forms will be included in the December issue of 'Crystallography News'.

M.J. Begley.
INTERNATIONAL SCHOOL OF CRYSTALLOGRAPHY

Erice, Trapani, Sicily - April 7-19, 1984

10th Course: Direct Methods of Solving Crystal Structures

Topics

The fundamental principles of direct methods, structure factor algebra, multination methods, symbolic addition methods, from a partial to a complete structure, phase extension and refinement, phase invariants and seminvariants: theory and application, determinantal methods, maximal entropy and direct methods, and direct methods in macromolecular crystallography.

Lecturers


General Information

Persons wishing to attend the Course should write to:

L. Bove di Sanseverino
Executive Secretary
International School of Crystallography
Piazza Porta San Donato, 1
40127 Bologna, Italy

The closing date for application is October 31, 1983.

Fees

The total fee including full board and lodging (arranged by the School) is 1,200 Swiss Francs. Thanks to the generosity of the sponsoring institutions, partial support can be given to those students who need financial help, but the amount required must be specified and justified in the application letter.

AMERICAN CRYSTALLOGRAPHIC ASSOCIATION

The American Crystallographic Association (ACA) was founded in 1949 through a merger of the American Society for X-Ray and Electron Diffraction (ASRED) and the Crystallographic Society of America (CSA). The objective of ACA is to promote interaction among scientists who study the structure of matter at atomic (or near-atomic) resolution. These interactions will advance experimental and computational aspects of crystallography and diffraction. They will also promote the study of the arrangements of atoms and molecules in matter and the nature of the forces that both control and result from them.

The present-day crystallographer, like his predecessors, is interested in the form and symmetry of ideal crystals, as well as in the growth of crystals and the measurements of their physical properties. However, the range of his interests encompasses vastly more than this. He realizes that nearly all solid objects are more or less truly crystalline, and he uses the powerful techniques of X-ray, electron and neutron diffraction to establish their cell dimensions and space groups and determine the positions of their constituent atoms in the unit cell. He is aware that actual crystals deviate more or less from ideal and he devotes much effort to diagnosing the nature and extent of the imperfections prevailing in the actual structure of crystals.

ACA members have made important and fundamental contributions to the several branches of physics, chemistry, geology, materials science, biophysics, and computer science. For example, they have unraveled the atomic arrangements and molecular structures of such diverse substances as minerals, metals, alloys, building materials, antibiotics, proteins, nucleic acids, missile materials and polymers, as well as one-dimensional conductors and liquid crystals. A great many crystallographers are busy extending our fundamental knowledge in these areas, while a much greater number are engaged in technological applications.

Membership in the American Crystallographic Association is open to any person who is actively interested in the purposes of the Association and whose application is sponsored by two regular members. Student members are very welcome and their contribution to the life and vigor of the Association has always been important. The annual dues for students are $7.50 as compared with $20 for regular members. The benefits of membership are the same in both cases. These include: voting privileges, a newsletter that is published six times a year, an up-to-date ACA membership directory and constitution, programs and abstracts of all ACA meetings, a copy of the current volume of the Transactions of the American Crystallographic Association, and reduced prices for the International Tables for X-ray Crystallography, Structure Reports, Journal of Applied Crystallography, and Acta Crystallographica when purchased for the member's personal use only. Also, because ACA is a member society of the American Institute of Physics (AIP), ACA members receive Physics Today, a monthly publication of AIP.

The total membership of ACA is about 1700. National Meetings are held twice year, except for those triennial years when the summer meeting is replaced by a Congress of the International Union of Crystallography. There are four Special Interest Groups concerned with Applied Crystallography, Small Angle Scattering, Biological Molecules, and Small Molecules, respectively. ACA members may join as many of these as interest them. Each special interest group is responsible for organizing sessions at National Meetings at least every other year.
FORTHCOMING MEETINGS and COURSES

Dr R H Small, Chemistry Dept., The University, Lancaster, LA1 4YA (see previous issue).

22 Sept. 1983  BCA Biological Structures Group Meeting, Univ. of Manchester.
Dr D W Hukins, Dept of Medical Biophysics, Univ. of Manchester, M13 9PT (see previous issue).

21 - 23 October 1983  British Assoc. for Crystal Growth Annual Meeting, Chester.
Mr F W Ainger, Plessey Research (Caswell) Ltd, Allen Clark Research Centre, Caswell, Towcester, Northants, NN12 8EQ

G W Smith, Spectroscopy Branch, BP Research Centre, Chertsey Road, Sunbury-on-Thames, Middx (see this issue).

Mr M B Wells, Clarendon Laboratory, Parks Road, Oxford OX1 3PU (see this issue - p.6).

1984

19 - 25 February 1984  7th International Biotechnology Symposium, New Delhi, India.
The Secretary, 7th Int. Biotech. Symp., Biochemical Engineering Research Centre, Indian Institute of Technology, Hauz Khas, New Delhi - 11016 India.

Mr F M Mueller, Physics Lab., Toernooiveld, NL - 6525 ED Nijmegen, The Netherlands.

2 - 5 April 1984  BCA Spring Meeting, Nottingham.
Dr B Begley, Dept of Chemistry, Univ of Nottingham, University Park, Nottingham, NG7 2RD

7 - 19 April 1984  Interational School on Direct Methods of Solving Crystal Structures, Erice, Sicily.
Prof. L. Riva di Sanseverino, Istituto di Mineralogia, Piazza di Porta San Donato 1, 40127 Bologna, Italy.

26 April - 22 June 1984  Spring College on Crystalline Semiconducting Materials and Devices, Trieste, Italy.
International College for Theoretical Physics, P O Box 586, I-34100 Trieste, Italy.

Prof D F Sands, Dept of Chemistry, University of Kentucky, Lexington KY 40506, USA

3 - 6 July 1984  Inter. Conf. on Crystal Growth and Characterization of Polytpe Structures, Maristes, Dr A Barquet, CHMCC, CNRS, Campus Luminy, Case 913, 13288 Marseille CEDEX 9, France.

9 - 13 July 1984  MICRO '84 London.
The Royal Microscopical Society, 37-38 St Clements, Oxford OX1 1AJ

Congress Secretariat, 8th Internat. Biophysics Congress, Neon Conference Services, Petersfield, Hants, GU32 3JN.

4 - 14 August 1984  27th International Geological Congress, Moscow, USSR.


Congress Bureau, MOTESZ, Budapest, P0B 32, H-1361, Hungary.

27 - 31 August 1984  6th General Conf. of the European Physical Society, Prague, Czechoslovakia.
Dr Buzeta, Physical Section, Union of Czechoslovak Mathematicians & Physicists, Na Slovance 2, 18000, Prague 8, Czechoslovakia.

11 - 13 Sept 1984  BCA Cruckshank Symposium, Manchester.
Dr Brian Beagley, Dept of Chemistry, UMIST, PO Box 88, Manchester M60 1QD

17 - 21 September 1984  7th International Conference on Textures of Materials, Noordwijkhout, The Netherlands.
ICOM 7, Netherlands Society for Materials Science, P O Box 390, NL-3330 AJ ZWIJNDRECHT, The Netherlands.

1985

11 - 14 February 1985  Characterization and Analysis of Polymers, Melbourne, Australia.
Dr J H O'Donnell, Polymer & Radiation Group, Dept of Chemistry, University of Queensland, Brisbane 4067, Australia.

24 May - 6 June 1985  The Determination & Interpretation of Small Structural Differences, Erice, Sicily.
Prof L Riva di Sanseverino, International School of Crystallography, Piazza Porta San Donato 1, 40127 Bologna, Italy.

September 1985  9th European Crystallographic Meeting, Turin, Italy.
Prof M Catti, Istituto di Mineralogia e Cristallografia dell' Universita, Via S Massimo 22, 10123 Turin, Italy.
1986
10 - 19 June  Synchrotron Radiation for X-ray Crystallography
Erice, Sicily.
Prof. L Riva di Sanseverino, International School of Crystallography,
Piazza Porta San Donato 1, 40127, Bologna, Italy.

1988
30 May - 7 June 1988  Crystallography of Molecular Biology
Erice, Sicily.  Prof L Riva di Sanseverino, International
School of Crystallography, (see Bologna address above.)

1989
16 - 26 September 1989  X-ray Crystallography & Drug Action,
Erice, Sicily.
Prof. L Riva di Sanseverino, Intern Schl of Cryst,(see Bologna
address above).

CRYSTALLOGRAPHY NEWS

For inclusion in the December issue, please send camera-ready
out by November 15th to the Editor, Dr Moreton Moore, Department
of Physics, Royal Holloway College, Egham Hill, Egham, Surrey,
TW20 0EX (0784-35351 ext. 36).