

L. Karen) gave a presentation on "Crystallographic Databases in the Support of Materials Development". A key database in this endeavor is the Inorganic Crystal Structure Database (ICSD) which is produced cooperatively by the Fachinformationszentrum (FIZ), Karlsruhe, and NIST. Finally, C. Hubbard discussed a long-term and fruitful collaboration between NIST and the ICDD. This effort has focused on the measurement of standard powder diffraction patterns and on the evaluation of data in the Powder Diffraction File.

The prestigious Fankuchen Award was presented to Professor James M. Stewart by the ACA president, William C. Stallings, on Tuesday 24 July 2001. "The Fankuchen Memorial Award committee selected James Stewart as the 2001 recipient for this important award. Jim pursued a long and distinguished teaching and research career at the University of Maryland. His career spanned an era of revolution in the way that crystal structures are solved, and he was one of the pioneers in this. As the major developer and coordinator of the XRAY and XTAL crystallographic software packages and an important contributor to the ACA and IUCr teaching and computing schools, Jim was an outstanding teacher of crystallographic methods and an innovator in large-scale computing techniques." Jim's excellent and moving acceptance speech stressed the unbelievable current state of the field of crystallography especially with respect to advancements in computing and the almost routine structure solution of proteins.

Crystallographic methodology continues to evolve at a rapid pace. Three workshops preceding the main meeting covered techniques: 1) Iterative Single-wavelength Anomalous Scattering Method, 2) Real-space Pair Distribution Function Method, and 3) Neutron Diffraction Workshop. The first workshop included "lectures, hands-on calculation and demonstrations with experimental anomalous scattering data from a single wavelength." The second workshop covered recent significant advances that have "been made in the

real-space atomic pair distribution function (PDF) technique allowing the local structure of disordered materials to be studied in unprecedented detail". The third workshop noted that the confluence of events would "provide both opportunities to grow large crystals on the International Space Station, and to collect data at steady state and spallation neutron sources. The role of the workshop was to acquaint a new generation of protein crystallographers with the merits of neutron diffraction studies of macromolecules."

The meeting included two memorial tributes—one to Richard D. Deslattes and the other to Harry Brumberger. Gabrielle Long gave an eloquent memorial tribute to the sterling character of Richard Deslattes and his outstanding accomplishments. Richard was a highly respected scientist at NIST, throughout the US, and the international scientific communities. His major scientific contributions were in the fields of X-ray physics, precision measurements and fundamental constants (e.g., Avogadro's number). There was an eloquent tribute by Gernot Kostorz to Harry Brumberger who was a pioneer in the field of small-angle scattering. Critical steps in his life were summarized and some highlights of his extensive research on catalysts, glasses, and other non-crystalline materials were outlined.

A committee chaired by Duncan McRee organized the scientific program, and the local committee chaired by Daniel Anderson and Katherine Kantardjieff arranged the meeting details. A dedicated group of college students made sure that the meeting ran smoothly. The meeting—because of its diverse coverage of scientific topics—was an excellent vehicle for the exchange of new and novel ideas between crystallographers. Future and exciting lines of research were clearly indicated such as crystal growth in zero gravity conditions, space crystallography, and the evolution of validation techniques. The location of the meeting in Los Angeles was ideal as it permitted many scientists from both East and West to participate.

Calendar of Meetings

Donald R. Petersen
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7–11 January 2002

Tenth International Conference on Polymer Characterization. Denton, Texas, USA. [Contact: Dr. Witold Brostow, University of North Texas, Department of Materials Science, Denton, TX 76203-5310, USA. Tel: 1 (940) 565 4358; Fax: 1 (940) 565 4824; E-mail: polychar@marta.phys.unt.edu; Info: <http://www.unt.edu/POLYCHAR>].

4–8 February 2002

ACEM17 17th Australian Conference on Electron Microscopy. Adelaide, South Australia, Australia. [Contact: John Terlet, CEMMSA, University of Adelaide, Adelaide, South Australia 5005, Australia. Tel: 61 (8) 8303 5855; Fax:

61 (8) 8303 4356; E-mail: john.terlet@adelaide.edu.au; Info: <http://www.adelaide.edu.au/CEMMSA/acem17>].

11–15 February 2002

AXAA 2002 Australian X-ray Analytical Association 2002 National Conference. Newcastle, New South Wales, Australia. Workshops, and oral and poster presentations relating to XRD, XRF, and surface analysis. [Contact: Jane Yeaman, Tulips Your Conference Organiser, Post Office Box 116, Salamander Bay, NSW 2317, Australia. Tel: 61 (2) 4984 2554; Fax: 61 (2) 4984 2755; E-mail: axaa@pco.com.au; Info: <http://www.pco.com.au/axaa2002>].

17–21 February 2002

131st Annual Meeting of the Minerals, Metals & Materials Society. Seattle, Washington, USA. [Contact: Info: <http://www.tms.org/Meetings/Annual-02/AnnMtg02Home.html>].

4–7 March 2002

DGK 2002 10. Jahrestagung der Deutschen Gesellschaft für Kristallographie. Kiel, Germany. [Contact: DGK 2002, Institut für Geowissenschaften der Universität Kiel, Olshausenstrasse 40, D-24098 Kiel, Germany. Tel: 49 (431) 880 2892; Fax: 49 (431) 880 4457; E-mail: dgk2002@min.uni-kiel.de; Info: <http://www.ifg.uni-kiel.de/dgk2002>].

18–22 March 2002

International Centre for Diffraction Data, Spring Meeting. Newtown Square, Pennsylvania, USA. [Contact: Linda Shertz, International Centre for Diffraction Data, 12 Campus Boulevard, Newtown Square, PA 19073-3273, USA. Tel: 1 (610) 325 9814; Fax: 1 (610) 325 9823; E-mail: shertz@icdd.com; Info: <http://www.icdd.com>].

25–28 March 2002

British Crystallographic Association Annual Meeting. Nottingham, England, UK. Held at Nottingham University. [Contact: Info: <http://bca.cryst.bbk.ac.uk/BCA/meets/BCAnew.html>].

2–4 April 2002

Spring Meeting of the Materials Research Society. San Francisco, California, USA. [Contact: Materials Research Society, 506 Keystone Drive, Warrendale, PA 15086-7573, USA. Tel: 1 (724) 779 3003; Fax: 1 (724) 779 8313; E-mail: info@mrs.org; Info: <http://www.mrs.org>].

13–18 April 2002

15th International Symposium on Microscale Techniques. Stockholm, Sweden. [Contact: Monika Edström, The Swedish Chemical Society, Wallingatan 24, 3 tr, SE-111 24 Stockholm, Sweden. Tel: 46 (8) 411 5260; Fax: 46 (8) 10 6678; E-mail: monika@chemsoc.se; Info: <http://www.chemsoc.se>].

23–26 May 2002

EPDIC-8 Eighth European Powder Diffraction Conference. Uppsala, Sweden. [Contact: Gunilla Lindh, Department of Materials Chemistry, Ångström Laboratory, Box 538, SE-751 21 Uppsala, Sweden. Tel: 46 (18) 471 3733; Fax: 46 (18) 513 548; E-mail: gunilla.lindh@mkem.uu.se; Info: <http://www.nfl.uu.se/hr/welcome.htm>].

26–30 May 2002

ACA'02 American Crystallographic Association Annual Meeting. San Antonio, Texas, USA. [Contact: Raymond E. Davis, Department of Chemistry and Biochemistry, University of Texas at Austin, Austin, TX 78712-1167, USA. Tel: 1 (512) 471 4440; Fax: 1 (512) 471 8696; E-mail: redavis@mail.utexas.edu; Info: <http://www.hwi.buffalo.edu/ACA>].

3–7 June 2002

ZEOLITE'02 6th International Conference on the Occurrence, Properties, and Utilization of Natural Zeolites. Thessaloniki, Greece. Followed by a 2.5-day field trip to the major natural zeolite deposits in northeast Greece and several important Thracian archaeological sites. [Contact: Prof. Panagiotis Misaelides, Aristotle University, Department of Chemistry, Post Office Box 1547, GR-540 06 Thessaloniki, Greece. Tel: 30 (31) 997 789; Fax: 30 (31) 997 753; E-mail: misailid@chem.auth.gr; Info: <http://meltemi.chem.auth.gr/activities/zeo2002>].

8–13 June 2002

39th Annual Meeting of the Clay Minerals Society. Boulder, Colorado, USA. Includes a workshop, "Teaching Clay Sciences" (June 8) and a field trip, "Clays and the Front Range" (June 13). [Contact: Kathryn Nagy, Department of Geological Sciences, University of Colorado, Boulder, CO 80309, USA. Tel: 1 (303) 492 6187; Fax: 1 (303) 492 2602; E-mail: kathryn.nagy@colorado.edu; Info: <http://www.colorado.edu/geolsci/cms>].

23–24 June 2002

Minerals 2002. London, England, UK. [Contact: John Bowles. E-mail: john@mineralscience.demon.co.uk].

9–11 July 2002

Micro 2002. London, England, UK. [Contact: Allison Winton, Royal Microscopical Society, 37/38 St. Clements, Oxford OX4 1AJ, UK. Tel: 44 (1865) 248 768; Fax: 44 (1865) 791 237; E-mail: exhibition@rms.org.uk; Info: <http://www.rms.org.uk>].

14–19 July 2002

PCI 2002 International Conference on the Physics and Chemistry of Ice. St. John's, Newfoundland, Canada. [Contact: Joanne Myrick-Harris, Hatcher House, Memorial University of Newfoundland, St. John's, Newfoundland A1B 3P7, Canada. Tel: 1 (709) 737 7922; Fax: 1 (709) 737 3520; E-mail: jharris@mun.ca; Info: <http://www.housing.mun.ca/conf/pci>].

29 July–2 August 2002

51st Annual Denver X-ray Conference. Colorado Springs, Colorado, USA. [Contact: Conference Coordinator, International Centre for Diffraction Data, 12 Campus Boulevard, Newtown Square, PA 19073-3273, USA. Tel: 1 (610) 325 9814; Fax: 1 (610) 325 9823; E-mail: dxc@icdd.com; Info: <http://www.dxcicdd.com/02>].

4–9 August 2002

Microscopy and Microanalysis 2002. Québec City, Québec, Canada. [Contact: Dr. Pierre M. Charest, Département de Phytologie, Pavillon C.-E. Marchand, Université Laval, Québec City, Québec G1K 7P4, Canada. Tel: 1 (418) 656 7792; Fax: 1 (418) 656 7176; E-mail: pcharest@rsvs.ulaval.ca; Info: <http://msc.rsvs.ulaval.ca/2002/2002.html>].

6–15 August 2002

19th IUCr General Assembly and International Congress of Crystallography. Geneva, Switzerland. *Note the change in venue from Jerusalem to Geneva.* [Contact: Secretariat XIX IUCr, Post Office Box 50006, Tel Aviv 61500, Israel. Tel: 972 (3) 515 0009; Fax: 972 (3) 517 5674 or 972 (3) 514 0077; E-mail: iucr@kenes.com; Info: <http://www.kenes.com/iucr>].

17–23 August 2002

12th Goldschmidt Conference. Davos, Switzerland. [Contact: D. A. Halliday. E-mail: halliday@erdw.ethz.ch].

25–29 August 2002

Twelfth International Conference on Small Angle Scattering. Venezia, Italy. [Contact: Dr. A. Benedetti, Università di Venezia, Dipartimento di Chimica Fisica, Calle Larga S. Marta D. D. 2137, I-30123 Venezia, Italy. Fax: 39 (041) 257 8594; E-mail: sas2002@unive.it; Info: <http://www.unive.it/sas2002>].

1–6 September 2002

IMA 2002 18th General Meeting of the International Mineralogical Association. Edinburgh, Scotland, UK. [Contact: The Mineralogical Society, 41 Queen's Gate, London SW7 5HR, UK. Tel: 44 (20) 7584 7516; Fax: 44 (20) 7823 8021; E-mail: info@minersoc.org; Info: <http://www.minersoc.org/pages/meetings/IMA2002.html>].

1–6 September 2002

ICEM-15 Fifteenth International Congress on Electron Microscopy. Durban, Kwazulu-Natal, South Africa. Sponsored by the International Federation of Societies for Electron Microscopy and the Microscopy Society of South Africa. Includes all aspects and applications of microscopy and microanalysis. [Contact: Robin Cross, ICEM-15 Secretariat, Electron Microscopy Unit, Rhodes University, Post Office Box 94, Grahamstown 6140, South Africa. Tel: 27 (46) 603 8168; Fax: 27 (46) 622 4377; E-mail: r.cross@ru.ac.za; Info: <http://www.icem15.com>].

8–12 September 2002

80. Jahrestagung der Deutschen Mineralogischen Gesellschaft. Hamburg, Germany. [Contact: Info: <http://www.rz.uni-hamburg.de/DMG2002>].

8–13 September 2002

Euroanalysis 12: European Conference on Analytical Chemistry. Dortmund, Germany. [Contact: Conference Secretariat Euroanalysis, Gesellschaft Deutscher Chemiker, Post Office Box 90 04 40, D-60444 Frankfurt am Main, Germany. Tel: 49 (69) 7917 358; Fax: 49 (69) 7917 475; E-mail: tg@gdch.de; Info: <http://www.euroanalysis.de/index.html>].

22–26 September 2002

116th AOAC International Annual Meeting. Los Angeles, California, USA. [Contact: Maria Donovan, AOAC International, 481 North Frederick Avenue, Suite 500, Gaithersburg, MD 20877-2417, USA. Tel: 1 (301) 924 7089; Fax: 1 (301) 924 7089; E-mail: mdonovan@aoac.org; Info: <http://www.aoac.org>].

30 September–3 October 2002

Third Mediterranean Clay Meeting. Jerusalem, Israel. Devoted to the chemistry, physics, and geology of clay minerals in the Mediterranean region, and their applications. English will be the official conference language. [Contact: Dr. Zev Gerstl, Institute of Soil, Water, and Environmental Chemistry, Volcani Center, ARO, Post Office Box 6, Bet Dagan 50250, Israel. Tel: 972 (3) 968 3272; Fax: 972 (3) 960 4017; E-mail: zgerstl@volcani.agri.gov.il; Info: http://indycc1.agri.huji.ac.il/clay_meeting].

13–17 October 2002

29th Annual Conference of the Federation of Analytical Chemistry and Spectroscopic Societies. Providence, Rhode Island, USA. [Contact: Cindi Lilly, FACSS National Office, 1201 Don Diego Avenue, Santa Fe, NM 87505, USA. Tel: 1 (505) 820 1648; Fax: 1 (505) 989 1073; E-mail: jsjoberg@trail.com; Info: <http://facss.org/info.html>].

2–6 December 2002

Fall Meeting of the Materials Research Society. Boston, Massachusetts, USA. [Contact: Materials Research Society, 506 Keystone Drive, Warrendale, PA 15086-7573, USA. Tel: 1 (724) 779 3003; Fax: 1 (724) 779 8313; E-mail: info@mrs.org; Info: <http://www.mrs.org>].

March 2003

International Centre for Diffraction Data, Spring Meeting. Newtown Square, Pennsylvania, USA. [Contact: Linda Shertz, International Centre for Diffraction Data, 12 Campus Boulevard, Newtown Square, PA 19073-3273, USA. Tel: 1 (610) 325 9814; Fax: 1 (610) 325 9823; E-mail: shertz@icdd.com; Info: <http://www.icdd.com>].

2–6 March 2003

132nd Annual Meeting of the Minerals, Metals & Materials Society. San Diego, California, USA. [Contact: Info: <http://www.tms.org/meetings/Annual-03/AnnMtg03Home.html>].

14–17 April 2003

British Crystallographic Association Annual Meeting. York, England, UK. Held at York University. [Contact: Info: <http://bca.cryst.bbk.ac.uk/BCA/meets/BCAnew.html>].

7–11 June 2003

Clay Minerals Society 40th Annual Meeting. Athens, Georgia, USA. [Contact: Paul A. Schroeder, University of Georgia, Athens, GA, USA. Tel: 1 (706) 542 2384; E-mail: schroe@gly.uga.edu; Info: <http://www.gly.uga.edu/CMS2003>].

22–26 June 2003

Euroclay 2003. Modena, Italy. [Contact: Maria Franca Brigatti, Dipartimento di Scienza della Terra, Università di Modena e Reggio Emilia, Largo S. Eufemia 19, I-41100 Modena, Italy. Fax: 39 (059) 205 5887; E-mail: ec2003@unimo.it; Info: <http://www.inimo.it/euroclay2003>].

21–26 July 2003

Aperiodic 2003. Belo Horizonte, Minas Gerais, Brazil. [Contact: Secretaria do Aperiodic 2003, Departamento de Fi-

sica, Universidade Federal de Minas Gerais, CP 702, Belo Horizonte 30123-970, Minas Gerais, Brazil. Tel: 55 (31) 3499 5672; Fax: 55 (31) 3499 5600; E-mail: ap2003@fisica.ufmg.br; Info: <http://www.fisica.ufmg.br/~ap2003>].

26–31 July 2003

ACA'03 American Crystallographic Association Annual Meeting. Cincinnati, Ohio, USA. [Contact: Jeanette Krause Bauer, Department of Chemistry, Post Office Box 210172, Cincinnati, OH 45221-0172, USA. Tel: 1 (513) 556 9226; Fax: 1 (513) 556 9239; E-mail: jeanette.krause@uc.edu; Info: <http://www.hwi.buffalo.edu/ACA/ACA-annual/futuremeetings.html>].

30 July–2 August 2003

Microscopy and Microanalysis 2003. San Antonio, Texas, USA. Sponsored by the Microscopy Society of America and the Microbeam Analysis Society. [Contact: MSA Business Office, Bostrom Corporation, 230 East Ohio, Suite 400, Chicago, IL 60611, USA. Tel: 1 (312) 644 1527; Fax: 1 (312) 644 8557; E-mail: businessoffice@msa.microscopy.com; Info: <http://www.msa.microscopy.com>].

4–8 August 2003

52nd Annual Denver X-ray Conference. Denver, Colorado, USA. [Contact: Conference Coordinator, International Centre for Diffraction Data, 12 Campus Boulevard, New-

town Square, PA 19073-3273, USA. Tel: 1 (610) 325 9814; Fax: 1 (610) 325 9823; E-mail: dx@icdd.com; Info: <http://www.dxcicdd.com/02>].

24–29 August 2003

ECM-21 21st European Crystallographic Meeting. Durban, South Africa. [Contact: Prof. Andreas Roodt, Free State University. E-mail: RoodtA@sci.uovs.ac.za; Info: <http://www.ecm21-africa.co.za>].

2–6 September 2003

ECNS 2003 European Conference on Neutron Scattering. Montpellier, France. [Contact: René Vacher, CNRS-SPM, Montpellier, France. Tel: 33 (4) 6714 3449; Fax: 33 (4) 6714 3498; E-mail: rene@ldv.uni-montp2.fr; Info: <http://www.sfn.asso.fr>].

14–18 March 2004

133rd Annual Meeting of the Minerals, Metals & Materials Society. Charlotte, North Carolina, USA. [Contact: Info: <http://www.tms.org/Meetings/Annual-04/AnnMtg04Home.html>].

August 2005

20th IUCr General Assembly and International Congress of Crystallography. Florence, Italy. [Contact: Carlo Mealli. E-mail: mealli@fi.cnr.it].

Short Courses and Workshops

17 February–28 March 2002

HERCULES 2002. Grenoble, France. This six-week course is designed for graduate and postdoctoral students and senior scientists. The presentation language will be English. The course is given in two concurrent parts: Neutron and Synchrotron Radiation for Physics and Chemistry of Condensed Matter, and for Biomolecular Structure and Dynamics. The format is lectures in the morning, tutorials and practicals in the afternoon. [Contact: Marie-Claude Moissenet, Secretariat HERCULES, CNRS-Maison des Magistères, BP 166, F-38042 Grenoble Cedex9, France. Tel: 33 (4) 7688 7986; Fax: 33 (4) 7688 7981; Info: <http://www.polycnrs-gre.fr/Hercules/hercules.html>].

29 April–3 May 2002

ICDD X-ray Clinic: Fundamentals and Advanced Methods of X-ray Fluorescence. Newtown Square, Pennsylvania, USA. A combined two-part course in the theoretical fundamentals and experimental techniques of X-ray fluorescence spectrometry, including both qualitative and quantitative analysis. [Contact: Education Coordinator, International Centre for Diffraction Data, 12 Campus Boulevard, Newtown Square, PA 19073-3273. Tel: 1 (610) 325 9814; Fax: 1 (610) 325 9823; E-mail: clinics@icdd.com; Info: <http://www.icdd.com/education/xrf.htm>].

3–7 June 2002

ICDD X-ray Clinic: Fundamentals of X-ray Powder Diffraction. Newtown Square, Pennsylvania, USA. The first week of an integrated two-week course in theoretical and experimental X-ray powder diffraction. This first session is directed to both relative newcomers to the field and to more experienced users who want to broaden their understanding of fundamental concepts and established procedures. [Contact: Education Coordinator, International Centre for Diffraction Data, 12 Campus Boulevard, Newtown Square, PA 19073-3273. Tel: 1 (610) 325 9814; Fax: 1 (610) 325 9823; E-mail: clinics@icdd.com; Info: <http://www.icdd.com/education/xrd.htm>].

10–14 June 2002

ICDD X-ray Clinic: Advanced Methods in X-ray Powder Diffraction. Newtown Square, Pennsylvania, USA. The second week of an integrated two-week course in theoretical and experimental X-ray powder diffraction. This session is designed for the experienced user and focuses on computer-based methods of qualitative and quantitative phase analysis. Previous attendance at the first session is recommended. [Contact: Education Coordinator, International Centre for Diffraction Data, 12 Campus Boulevard, Newtown Square, PA 19073-3273. Tel: 1 (610) 325 9814; Fax: 1 (610) 325