

Mexico, USA. [Contact: Robert Bowman, New Mexico Institute of Technology, Socorro, New Mexico, USA. E-mail: bowman@nmt.edu].

Summer 2008

21st IUCr General Assembly and International Congress of Crystallography. Osaka, Japan.

Short Courses & Workshops

14–17 March 2005

ZEKAM Workshop 2005 Rietveld-Analytik. Bremen, Germany. Grundlagen und Anwendung. Ein Einführungskurs für Praktiker. Unterrichtssprache ist deutsche. [Contact: Dr. Michael Wendschuh, Zentrallabor für Kristallographie und Angewandte Materialwissenschaften im Fachbereich Geowissenschaften der Universität Bremen, Klagenfurter Strasse, 28359 Bremen, Germany; Tel: 49 (421) 218 39 68; Fax: 49 (421) 218 71 23; E-mail: zekam@uni-bremen.de; Info: <http://www.brass.uni-bremen.de/RW2005/RW2005>].

28–29 March 2005

Remote Access and Automation Workshop. Marysville, Australia. Part of **Crystal24**, which follows immediately at the same venue. Discussion centered on various large-scale data collection projects, typically involving synchrotron sources. [Contact: Info: http://xrsl.cmit.csiro.au/Crystal24/mmsn_ws05_programme.html].

2–6 May 2005

ICDD X-ray Clinic: Practical X-ray Fluorescence Spectrometry. Newtown Square, Pennsylvania, USA. Sponsored by the International Centre for Diffraction Data. A week-long session directed to both relative newcomers and to more experienced users wishing to broaden their understanding of fundamental concepts and established procedures. Held in the ICDD Headquarters building. The \$1600 fee includes textbooks, laboratory notebook, use of computers, and daily lunch. [Contact: Leah Mooney, Education 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: clinics@icdd.com; Info: <http://www.icdd.com/education/xrf.htm>].

22–26 May 2005

9th EMAS Workshop on Modern Developments and Applications in Microbeam Analysis, held together with the 3rd Meeting of the International Union of Microbeam Analysis Societies. Florence, Italy. [Contact: European Microbeam Analysis Society Secretariat, University of Antwerp, Department of Chemistry, attn Mr. Luc Van't dack, Universiteitsplein 1, BE 2610 Antwerp-Wilrijk, Belgium. Tel: 32 (3) 820 23 43; Fax: 32 (3) 820 23 43; E-mail: Luc.Vantdack@ua.ac.be; Info: <http://www.emas-web.net/Content/EMAS2005.htm>].

28 May 2005

Workshop on Structure Solution and Refinement of Difficult Structures using Powder Diffraction. Orlando, Florida, USA. Sponsored by the Powder Diffraction Special Interest Group of the American Crystallo-

graphic Association, and held immediately prior to the **ACA Annual Meeting**. Supported by the International Centre for Diffraction Data and the Canadian Institute of Neutron Scattering. [Contact: Nattamai Bhuvanesh at nbhuv@mail.chem.tamu.edu; Info: <http://www.chem.tamu.edu/xray/acawork/acaworkshop.html>].

5–10 June 2005

IWPCPS-7 Seventh International Workshop on Physical Characterization of Pharmaceutical Solids. Kona, Hawaii, USA. [Contact: Adair Garis, Assa International, 3B East Lake Road, Danbury, CT 06811, USA. Tel: 1 (203) 312 0682; Fax: 1 (203) 312 0722; E-mail: assa.info@assainternational.com; Info: http://www.assainternational.com/workshops/iwpcps_7/iwpcps_7.cfm].

6–10 June 2005

ICDD X-ray Clinic: I. Fundamentals of X-ray Powder Diffraction. Newtown Square, Pennsylvania, USA. Sponsored by the International Centre for Diffraction Data. A week-long session directed to both relative newcomers and to more experienced users wishing to broaden their understanding of fundamental concepts and established procedures. Held in the ICDD Headquarters building. The \$1600 fee includes textbooks, laboratory notebook, use of computers, and daily lunch. [Contact: Leah Mooney, Education 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: clinics@icdd.com; Info: <http://www.icdd.com/education/xrd.htm>].

13–17 June 2005

ICDD X-ray Clinic: II. Advanced Methods in X-ray Powder Diffraction. Newtown Square, Pennsylvania, USA. Sponsored by the International Centre for Diffraction Data. A week-long session designed for the experienced user and focusing on computer-based methods of qualitative and quantitative phase analysis. Held in the ICDD Headquarters building. The \$1600 fee includes textbook, laboratory notebook, use of computers, and daily lunch. [Contact: Leah Mooney, Education 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: clinics@icdd.com; Info: <http://www.icdd.com/education/xrd.htm>].

19–28 June 2005

7th European Mineralogical Union School: Mineral Behaviour at Extreme Conditions. Heidelberg, Germany. A

satellite event of the **International Conference on High Pressure Science and Technology** in Karlsruhe, June 27–July 1. The language of the school is English. [Contact: Info: http://www.univie.ac.at/Mineralogie/EMU/emusch_7.htm].

20–24 June 2005

International School on Mathematical and Theoretical Crystallography. Nancy, France. Held at the Université Henri Poincaré Nancy 1. The language of the school is English. [Contact: Info: <http://www.lcm3b.uhp-nancy.fr/mathcryst/nancy2005.htm>].

1–2 August 2005

Workshops at the 54th Annual Denver X-ray Conference. Colorado Springs, Colorado, USA. **X-ray Microtomography** (S. Stock); **X-ray Optics** (G. J. Havrilla); **Rietveld Applications** (A. Kern, J. Faber); **Stress Analysis** (I. C. Noyan); **Line Profile Analysis by Whole Powder Pattern Fitting** (D. Balzer); **Two-dimensional X-ray Diffraction** (T. Blanton, B. He); **XRF Specimen Preparation** (J. Anzelmo, D. Broton); **Energy Dispersive XRF** (M. A. Zaitz); **Quantitative XRF** (M. Mantler); **Basic XRF** (L. Creasy); **Monte Carlo Techniques in X-ray Fluorescence** (R. Gardner). [Contact: Denise Flaherty, 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: flaherty@icdd.com; Info: <http://www.dxcicdd.com>].

18–23 August 2005

Crystallographic Computing School. Siena, Italy. Held just prior to the **20th IUCr Congress** in Florence. [Contact: Con-

gress Secretariat, XX Congress IUCr, Dipartimento di Energetica, Università di Firenze, via S. Marta 3, 50139 Firenze, Italy. Tel: 39 (055) 479 6240; Fax: 39 (055) 479 6342; E-mail: iucr@iucr2005.it; Info: <http://www.iucr.ac.uk/iucr-top/comm/ccom/siena2005>].

23 August 2005

Workshops held in conjunction with the **20th IUCr Congress.** Florence, Italy. Including **Introduction to Small-Angle Scattering** (Jan Skov Pedersen); **Structural Analysis of Aperiodic Crystals** (Sander van Smaalen, Ray L. Withers); **Small Molecule Crystallization** (Roland Boese, Chick Wilson). [Contact: E-mail: Paola Gilli at paola.gilli@unife.it; Martin U. Schmidt at m.schmidt@chemie.uni-frankfurt.de].

2–8 September 2005

New Frontiers in Electron Crystallography. Brussels, Belgium. Held just after the **20th IUCr Congress** in Florence. Organized by Stavros Nicolopoulos. [Contact: Congress Secretariat, XX Congress IUCr, Dipartimento di Energetica, Università di Firenze, via S. Marta 3, 50139 Firenze, Italy. Tel: 39 (055) 479 6240; Fax: 39 (055) 479 6342; E-mail: iucr@iucr2005.it; Info: <http://www.elcryst2005.de>].

7–17 June 2007

Engineering of Crystalline Materials Properties: State-of-the-Art in Modeling, Design, and Applications. Erice, Italy. The 39th Crystallographic Course at the Ettore Majorana Centre. The course directors are D. Braga (Bologna) and J. Novoa (Barcelona). [Info: <http://www.crystalerice.org/2007.htm>].