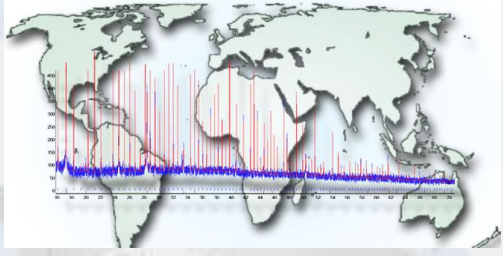


# Commission for Powder Diffraction (CPD)



International Union of Crystallography (IUCr)

[www.iucr.org/resources/commissions/powder-diffraction](http://www.iucr.org/resources/commissions/powder-diffraction)



## What does the CPD do?:

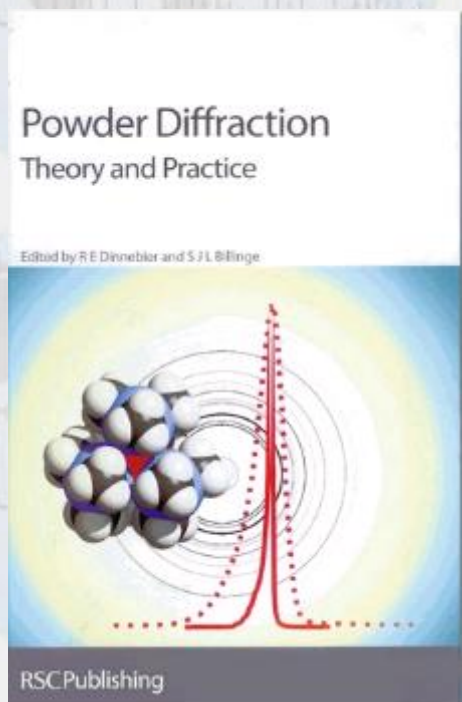
The CPD was established at the Perth IUCr Congress in 1987, with the following terms of reference:

- Advise the IUCr in organizing/sponsoring meetings, schools etc, on powder diffraction and related subjects.
- Promote and coordinate scientific exchange between countries in the field of powder diffraction.
- Cooperate with other IUCr Commissions on matters concerning powder diffraction.
- Cooperate with other international bodies interested in powder diffraction and allied subjects.
- Promote interactions of the IUCr with the world-wide body of X-ray and neutron powder diffractionists.
- Promote the scientific growth and development of the field of powder diffraction.

It *informs* via its topical on-line CPD newsletters and web site

Membership of CPD is by nomination from IUCr National Committees & subject to approval at the triennial IUCr General Assemblies

## CPD Projects include...



Powder diffraction textbook (2008)

*J. Appl. Cryst.* (1999), **32**, 36–50

### Rietveld refinement guidelines

L. B. McCusker,<sup>a\*</sup> R. B. Von Dreele,<sup>b</sup> D. E. Cox,<sup>c</sup> D. Louër,<sup>d</sup> and P. Scardi<sup>e</sup>

### Rietveld refinement guidelines (1999)

Journal of Applied Crystallography  
ISSN 0021-8898

### Size-strain line-broadening analysis of the ceria round-robin sample

D. Balzar,<sup>a,b\*</sup> N. Audebrand,<sup>c</sup> M. R. Daymond,<sup>d</sup> A. Fitch,<sup>e</sup> A. Hewat,<sup>f</sup> J. I. Langford,<sup>g</sup> A. Le Bail,<sup>h</sup> D. Louër,<sup>c</sup> O. Masson,<sup>c</sup> C. N. McCowan,<sup>h</sup> N. C. Popa,<sup>i</sup> P. W. Stephens<sup>j</sup> and B. H. Toby<sup>k</sup>

### Size-strain round-robin (2004)

*J. Appl. Cryst.* (1994), **27**, 802–844

### International Union of Crystallography Commission on Powder Diffraction

### Rietveld Refinement Round Robin. II. Analysis of Monoclinic ZrO<sub>2</sub>

By R. J. Hill and L. M. D. Cranswick

CSIRO Division of Mineral Products, PO Box 124, Port Melbourne, Victoria 3207, Australia

### Rietveld refinement round-robin (1992-4)

Journal of Applied Crystallography  
ISSN 0021-8898

### research papers

### Outcomes of the International Union of Crystallography Commission on Powder Diffraction Round Robin on Quantitative Phase Analysis: samples 2, 3, 4, synthetic bauxite, natural granodiorite and pharmaceuticals

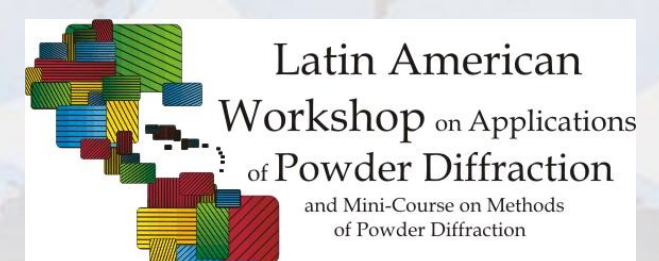
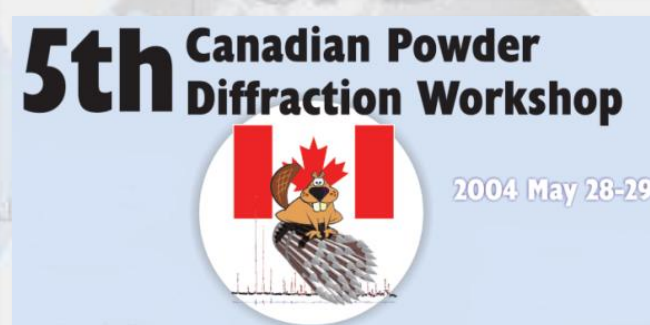
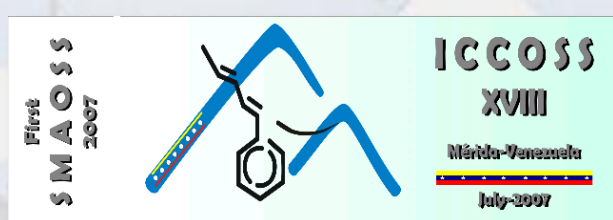
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This paper is dedicated to the late Professor Deane K. Smith as a tribute to his memory and as a mark of respect for the contribution he made to this project.

Nicola V. Y. Scarlett,<sup>a\*</sup> Ian C. Madsen,<sup>a</sup> Lachlan M. D. Cranswick,<sup>b</sup> Thaug Lwin,<sup>c</sup> Edward Groleau,<sup>d</sup> Gregory Stephenson,<sup>d</sup> Mark Aylmore<sup>e</sup> and Nicki Agron-Olshina<sup>a</sup>

### Quantitative phase analysis round-robin (2002-4)

## Conferences & Workshops sponsored by the CPD / IUCr include...



## Getting involved...

The CPD exists to promote powder diffraction and represent you within the wider crystallographic community. Suggestions for meeting sponsorship and ideas to better serve our community are most welcome.

## CPD Membership for 2008-2011:

Pamela Whitfield (Canada) – chair  
Eduardo Granado (Brazil)  
Simon Billinge (USA)  
Ian Madsen (Australia)  
David Rafaja (Germany)  
Rosanna Rizzi (Italy)

Kenneth Shankland (UK)  
Lubomír Smrcek (Slovakia)  
Brian Toby (USA)  
Masatomo Yashima (Japan)

### Consultants:

Bill David (UK)  
Dave Billing (South Africa)  
Alok Mukherjee (India)  
Peter Stephens (USA)  
Jim Kaduk (USA – ICDD)

Contact email addresses on CPD website ([www.iucr.org/resources/commissions/powder-diffraction](http://www.iucr.org/resources/commissions/powder-diffraction))