

BCA 2007 Spring Meeting
XRD Industrial Group Highlights.
Tuesday Afternoon

Co-crystals of Pharmaceutical Materials

Tuesday 17th April, 15:15 - 16:45

Chairs:

Anne Kavanagh, *AstraZeneca, Macclesfield.*
Roy Copley, *GSK, Harlow.*

15:15 Learning from cocrystals - their design, construction and properties.

Bill Jones, University of Cambridge.

15:45 Co-crystals -- does thermodynamics hold the secrets of drop grinding.

Keith Chadwick, University of Manchester.

16:15 Panic to Panacea: Cocrystallisation in Pharmaceutical Development.

Chris Frampton or Mark Eddleston, Pharmorphix Limited.

Wednesday Morning

XRF / XRD Joint session on thin films.

Wednesday 18th April 10:15 - 12:00

Chairs:

Dave Taylor, *ICDD.*
Chris Staddon, *University of Nottingham.*

10:15 Thin Films and Coatings by XRF and XRD: an Overview.

Tom Ryan, Nanometrics, Oregon, USA.

11:00 Advanced solid-state X-ray detector for the analysis of thin layered structures.

Joachim Woitok, PANalytical, Almelo

11:20 Up-To-Date XRD-Techniques for investigating ultra-thin films and ultra-small features.

Hugues Guerault, BrukerAXS.

11:40 X-ray probes of the layer and interface structure of nano-scale films for optoelectronics and spintronics.

Brian Tanner, Bede.

Wednesday Afternoon

IG Keynote Lecture, Wednesday 18th April, 14:15 - 15:00

Nano- Materials.

Professor R. L. Snyder, Georgia Institute of Technology, USA

Diffraction from Surfaces and Two Dimensional Crystallography.

Wednesday 18th April 15:30 - 17:00

Chairs:

Judith Shackleton, *University of Manchester.*
Richard Morris, *Morris Analytical X-ray.*

15:30 Structural studies of ordered mesoporous silica in channelled substrates, Donna Arnold, University College Cork

16:00 X-ray characterisation of nanomagnetic materials.

Tom Hase, University of Durham.

16:30 SAXS and GI applications using a novel modular laboratory system.

Peter Laggner, Graz.

Thursday Morning

One Hundred and One Ways to Prepare an XRPD Sample.

Thursday 19th April 10:15 - 12:15

Chairs:

Jeremy Karl Cockcroft, *UCL*.

Martin Gill, *Natural History Museum*.

10:15 Industrial Group Young Crystallographer Prize talk.

The session will continue in workshop style led by the chairs and conclude with:

Random Diffraction Patterns (without really trying).

Gordon Cressey, Natural History Museum.

Thursday Afternoon

A Standardless Future for Quantitative XRPD?

Thursday 19th April 13:30 - 15:00

Chair:

Steve Norval, *ICI, Wilton*.

13:30 Random Mounts and Reproducibility – The Key to Standard-less Q. P. A.

Gordon Cressey, Natural History Museum

14:00 Quantitative Analysis of Mixtures Using High Throughput Instrumentation without the Use of Standards.

Christopher Gilmore, etc al, University of Glasgow

14:20 Quantitative Analysis of Cements.

Rob Hill, BrukerAXS

14:40 Standardless Quantitative Analysis.

Paul O'Meara, PANalytical.

15:00 Closing Remaks.

Industrial XRD Highlights			
	Tuesday	Wednesday	Thursday
AM	Registration & Exhib.	Keynote.	Teaching Keynote
Coffee & Exhibition			
AM	Lonsdale Lecture <i>Prof. Bill David</i>	Joint session on thin films. Bragg Lecture <i>Prof. Sir Roger Penrose</i>	One Hundred and One Ways to Prepare an XRPD Sample.
Lunch & Exhibition			
PM	Co-crystals of Pharmaceutical Materials	13:00 IG AGM IG Keynote <i>Prof. Robert L Snyder.</i>	A Standardless Future for Quantitative XRPD?
Tea & Exhibition			
PM	Exhibitors talks	Diffraction from Surfaces and Two D Crystallography. 17:00 BCA AGM	
Evening	18:30 Posters & Exhib. Buffet & Wine Reception	17:45 Hodgkin Lecture <i>Prof. Judith Howard</i> 19:45 Conference Dinner	