

# Erice 2011 Programme: The Power of Powder Diffraction [version of 24<sup>th</sup> May 2011]

Erice, Italy : June 2 (arrival day) to June 12 (departure day), 2011

	Fri June 3	Sat June 4	Sun June 5	Mon June 6	Tue June 7	Wed June 8	Thu June 9	Fri June 10	Sat June 11
Time	Fundamentals	Instrumentation at the Frontiers	Structure Solution Sunday	Big Challenges	Powder Plus	Less than Perfect	Quantitative	Texture: Friend and Foe	Crystal-ball- gazing
9.00 - 9.50	<b>9.00 Paola Spadon Welcome</b> John Irwin & al. Instructions on Workshops, etc	<b>Pamela Whitfield</b> Laboratory X-ray Diffraction	<b>Carmelo Giacovazzo</b> Structure solution using direct methods	<b>Jon Wright</b> Proteins and Powders – Technical Developments	<b>Christian Baerlocher</b> Combination of X-ray powder diffraction, electron diffraction and HRTEM data <b>(Time change: 8.45-9.35)</b>	<b>Matteo Leoni</b> Information on Imperfections	<b>Ian Madsen</b> Quantitative phase analysis: introduction and standards	<b>Bob von Dreele</b> Texture – An Overview	Selected contributions
9.50 – 10.40	<b>9.15 Bill David and Ute Kolb</b> PD and EC Powder and Electron diffraction - by decades	<b>Fabia Gozzo</b> Synchrotron X-ray Diffraction	<b>Chris Gilmore</b> Structure solution using maximum entropy methods	<b>Irene Margiolaki</b> Proteins and Powders – An Overview	<b>Yaroslav Filinchuk</b> <i>In-situ</i> Powder Diffraction	<b>Tamas Ungar</b> Whose Fault is it?	<b>Arnt Kern</b> Quantifying Amorphous Phases	<b>Christian Baerlocher</b> Using Texture for Structure Solution	
10.40 –11.00	Coffee	Coffee (with Tutor A)	Coffee	Coffee (with Tutor A)	Coffee	Coffee (with Tutor B)	Coffee (with Tutor B)	Coffee	Coffee
11.00 – 11.50	<b>Kenneth Shankland</b> Data Collection – Good Practices	<b>Laurent Chapon</b> Neutron Powder Diffraction	<b>Lukas Palatinus</b> Structure solution using charge flipping	<b>Joel Bernstein</b> Pharmaceuticals and Powders – An Overview	<b>Laurent Chapon</b> Powder Diffraction and Magnetism	<b>Simon Billinge</b> Pair Distribution Function Analysis	<b>Luca Lutterotti</b> Quantitative phase analysis: method developments	<b>Gilberto Artioli</b> Cultural Heritage	Selected contributions
11.50 – 12.40	<b>Peter Stephens</b> Indexing	<b>Andy Fitch</b> Ultrafast Powder Diffraction	<b>Kenneth Shankland</b> Structure solution via global optimisation methods	<b>Bill David</b> Parametric Powder Diffraction	<b>Lubo Smrcek</b> Powder diffraction and Computational Methods	<b>Yuri Andreev</b> Debye Analysis	Excursion 2	<b>Xun-Li Wang</b> From railway lines to Airbus wings	
12.40 – 14:30	Lunch	Lunch while “watching” Poster Session 1	Lunch (with Tutor A)	Lunch during EXCURSION 1	Lunch while “watching” Poster Session 2	Lunch	Lunch during EXCURSION 2	Lunch (with Tutor B)	Lunch
14:30 – 15.20	<b>Peter Stephens</b> Rietveld Refinement	<b>Colin Pulham</b> Taking it to extremes	<b>DEMO</b> <b>Angela Altomare</b> Introduction to EXPO	<b>Short boat trip.</b> <b>Extensive walk</b> Mothia Island, <b>Phoenician Archaeology</b> or (free choice) Trapani beach	<b>DEMO</b> <b>Kenneth Shankland / Bill David</b> DASH	<b>DEMO</b> <b>Simon Billinge</b> PDFgetX2	<b>EXC 2</b> <b>to Selinunte + Segesta,</b> <b>Greek archaeology,</b> or (free choice) <b>S Vito lo Capo beach</b>	<b>DEMO</b> <b>Luca Lutterotti</b> Introduction to MAUD	<b>Robert Dinnibier</b> The Future of Laboratory Powder Diffraction
15:20 – 16.10	<b>Lynne McCusker</b> Structure solution overview	<b>DEMO</b> <b>Laurent Chapon</b> Introduction to FullProf	<b>DEMO</b> <b>Radovan Cerny</b> FOX	EXC 1	<b>DEMO</b> <b>Lukas Palatinus</b> Introduction to SUPERFLIP	<b>DEMO</b> <b>Matteo Leoni</b> WPPM	EXC 2	Student Corner	<b>Lynne McCusker</b> Old ideas – new opportunities:
16.10 –16.40	Coffee	Coffee	Coffee	EXC 1	Coffee.	Coffee	EXC 2	Coffee	Coffee
16.40 – 17.30	<b>Radovan Cerny</b> Inorganic Materials	<b>DEMO</b> <b>Bob VonDreele</b> Introduction to GSAS	<b>WORKSHOP</b> <b>Angela Altomare</b> EXPO	EXC 1	<b>WORKSHOP</b> <b>Kenneth Shankland / Bill David</b> DASH	<b>WORKSHOP</b> <b>Arnt Kern / Robert Dinnebier</b> TOPAS	EXC 2	<b>WORKSHOP</b> <b>Luca Lutterotti</b> MAUD (texture & size/strain)	<b>Kenneth Shankland</b> The Future Role of Computing – from Prediction to Automation
17.30 – 18:20	<b>Kenneth Shankland</b> Organic Materials	<b>WORKSHOP</b> <b>Laurent Chapon</b> : Fullprof	<b>WORKSHOP</b> <b>Radovan Cerny</b> FOX	EXC 1	<b>WORKSHOP</b> <b>Lukas Palatinus</b> SUPERFLIP	<b>WORKSHOP</b> <b>Simon Billinge</b> PDFgetX2 <b>WORKSHOP</b> <b>Matteo Leoni</b> WPPM	EXC 2	<b>WORKSHOP</b> <b>Ian Madsen</b> QPA using TOPAS	<b>Bill David</b> What does the future hold?
18.20 - 19:20	Meeting tutors (until 19:20)	<b>WORKSHOP</b> <b>Bob VonDreele:</b> GSAS	<b>Poster session 1</b> (odd numbers) in San Francesco Court	Return to Erice at 19 00	<b>DEMO</b> <b>Arnt Kern/ Robert Dinnebier</b> Introduction to TOPAS	<b>Poster Session 2</b> (even numbers)in San Francesco Court	EXC 2	<b>WORKSHOP</b> <b>Bob VonDreele</b> Texture in GSAS	
20.00	<b>19.30-20.00</b> <b>Celebrating Lodovico</b> (S. Domenico)  <b>20.00</b> <b>Welcome Buffet &amp; Sicilian Evening</b> (S. Francesco)	Dinner	Pasta party (at S. Francesco)	Dinner	Dinner	Pizza party (at S. Francesco)	Dinner in front of the Segesta Temple	Dinner	Goodbye Buffet Dinner