

Structure, microstructure, nanostructure
exploiting the potential of powder diffraction techniques
joined with 10th School "Paolo Giordano Orsini"
 Trento, Sept 15th-20th 2012

PROGRAM TIMETABLE

	Saturday 15/9	Sunday 16/9	Monday 17/9	Tuesday 18/9	Wednesday 19/9	Thursday 20/9		
8.50		Global phasing from powders to proteins (Giacovazzo)	Space Group determination and crystal structure solution in reciprocal and direct space (Rizzi)	Quantitative phase analysis using X-ray powder diffraction (Gualtieri)	Line Profile Analysis an introduction (Scardi)	Diffraction Methods in Electron Microscopy – Overview (Gialanella)		
10.00		coffee break	coffee break	coffee break	coffee break	coffee break		
10.20		Powder diffraction (Artioli)	Introduction to Rietveld Refinement I (Evans)	Powder diffraction applications: high temperature; Powder diffraction applications: cultural heritage (Artioli)	Whole Powder Pattern Modelling - I (Leoni)	Structure solution with electron diffraction: the precession technique and the diffraction tomography (Gemmi)		
11.30		Search Match (Sommariva)	Introduction to Rietveld Refinement II (Evans)	Introduction to Rietveld Refinement III (Evans)	Whole Powder Pattern Modelling - II (Leoni)	Texture analysis and orientation mapping in a TEM (Gemmi)		
12.30		Indexing: methods and applications to powder diffraction data (Moliterni)	DISCUSSION	DISCUSSION	DISCUSSION	DISCUSSION		
		lunch	lunch	lunch	lunch	lunch		
14.00	Registration opens		in parallel	in parallel	in parallel			
			EXPO (solution/refinement)	TOPAS (basics)	TOPAS (basics)	GSAS QPA	GSAS QPA	PM2K
	Opening Ceremony							
15.30	Matter-radiation interaction (Fornasini)		coffee break	coffee break	coffee break			TEM software session (Gemmi/Gialanella)
16.00	Introduction to crystallography: symmetry, lattces, reciprocal spaces (Berisio)		EXPO (solution/refinement)	TOPAS (solution/refinement)	TOPAS (advanced/parametric)	GSAS QPA	GSAS QPA	PM2K
17.30	coffee break							concluding remarks
	Symmetry in reciprocal space (Giacovazzo)		Students/teachers interaction	Students/teachers interaction	Students/teachers interaction			Closing Ceremony
18.20	DISCUSSION							
19.00	Welcome party		Football match students vs teachers		Social dinner			