
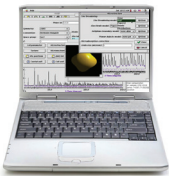
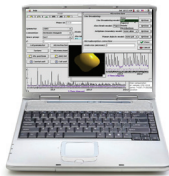




# PROVISIONAL PROGRAM

## 5<sup>th</sup> MAUD Workshop “Combined Analysis Using X-ray and Neutron Scattering”

June 30<sup>th</sup>-July 4<sup>th</sup>, 2014, Caen (France)

Monday June 30 <sup>th</sup> 2014	Tuesday July 1 <sup>st</sup> 2014	Wednesday July 2 <sup>nd</sup> 2013	Thursday July 3 <sup>rd</sup> 2013	Friday July 4 <sup>th</sup> 2013
	<p><b>Start 9h</b></p> <p><b>Classical Rietveld Analysis</b></p> <p>Rietveld method in brief The Ph(y) parameter of the problematic texture in Rietveld Microstructural aspect of the profile How the deconvolution operates Le Bail extraction NL Least squares, genetic and simulated annealing</p>	<p><b>Start 9h</b></p> <p><b>Line Broadening Analysis</b></p> <p>Line broadening due to size and microstrains Williamson-Hall, Bertaut-Warren-Averbach, Popa... Size and microstrain distributions</p>	<p><b>Start 9h</b></p> <p><b>Residual Stress Analysis</b></p> <p>Calculation of residual stress Characterization of macrostress Study of 2nd and 3rd order stresses Anisotropy of lattice strain response</p>	<p><b>Start 9h</b></p> <p><b>The combined solution</b></p> <p>Algorithm Examples</p>
<i>10h30 - 11h Coffee break</i>				
<p><b>Start 10h</b></p> <p><b>Welcome</b></p>	<p><b>Classical Crystallographic Texture Analysis</b></p> <p>Quantitative Texture Analysis, measurements / Corrections Direct Pole Figures, normalisation, inverse pole figures, ODF Resolution methods</p>	<p><b>X-ray reflectivity Analysis</b></p> <p>Specular reflectivity Fresnel, Parratt Formalisms Roughness Correlation functions</p>	<p><b>Phase Analysis</b></p> <p>Crystalline, amorphous Applications</p>	<p><b>Whole Pattern from images</b></p> <p><b>Evaluation of the formation</b></p>
<i>12h30 - 14h Lunch</i>				
<p><b>Introduction</b></p> <p>Fundamental aspect Technical description</p>	<p><b>Practical session</b></p> <p>Use of the MAUD software</p>	<p><b>Practical session</b></p> <p>Use of the MAUD software</p>	<p><b>Practical session</b></p> <p>Use of the MAUD software</p>	
<i>15h30 - 16h Coffee break</i>				
<p><b>Classical Rietveld Analysis</b></p> <p>Rietveld method in brief The Ph(y) parameter of the problematic texture in Rietveld Microstructural aspect of the profile How the deconvolution operates Le Bail extraction NL Least squares, genetic and simulated annealing</p>	<p><b>Practical session</b></p> <p>Use of the MAUD software</p> 	<p><b>Practical session</b></p> <p>Use of the MAUD software</p> 	<p><b>Practical session</b></p> <p>Use of the MAUD software</p> 	
<i>18h End of day</i>				
	<i>19h Dinner</i>		<i>19h Dinner</i>	