

# Science at High Pressure: Initiative for the Creation of an ILL/ESRF Partnership for Extreme Conditions Science

9-10-11 February 2010, Grenoble

Venu: ESRF Auditorium



**Tuesday, 9<sup>th</sup> February, Auditorium**

08:00 - 08:30	<i>Registration</i>	
08:30 - 08:50	Welcome by <b>H. Reichert</b> , Director of Research, ESRF and <b>A. Harrison</b> , Director of Science, ILL	
08:50 - 09:00	Introduction by <b>M. Mezouar</b> , ESRF	
<b>1<sup>st</sup> Session: Biology – Chair: F. Meersman</b>		
09:00 - 09:45	Exploring the Configurational and Free Energy Landscape of Biomolecules under Extreme Conditions	<b>R. Winter</b> TU Dortmund, Germany
09:45 - 10:15	Microbial Dissimilatory Metal Reduction under High Pressure	<b>I. Daniel</b> U. Claude Bernard Lyon, France
10:15 - 10:45	High Pressures in Bio-Crystallography	<b>E. Girard</b> IBS, Grenoble, France
10:45 - 11:15	<i>Coffee Break</i>	
11:15 - 11:45	High Pressure and Pressure-Jump Studies of Lyotropic Liquid Crystals and Lipid Membranes	<b>J. Seddon</b> Imperial College London, UK
11:45 - 12:30	<b>Round table PECS / Biology</b>	<b>I. Daniel &amp; F. Meersman</b> University of Leuven, Belgium
12:30 - 14:00	<i>Lunch at the ESRF/ILL Restaurant</i>	
<b>2<sup>nd</sup> Session: Chemistry and Materials Science – Chair: H. Müller</b>		
14:00 - 14:45	High Pressure Materials Chemistry using ESRF and ILL Facilities	<b>P. McMillan</b> University College London, UK
14:45 - 15:15	Neutron Diffraction at High Pressure and High Temperature: Some Recent Developments and Scientific Applications	<b>Y. Le Godec</b> Université Pierre et Marie Curie, Paris, France
15:15 - 15:45	New Trends in High Pressure Chemistry of Materials	<b>R. Huppertz</b> University of Innsbruck, Austria
15:45 - 16:15	<i>Coffee Break</i>	
16:15 - 16:45	New Silicon and Germanium Networks at Extreme Conditions	<b>U. Schwarz</b> MPI-CPfS Dresden, Germany
16:45 - 17:15	New Electronic Materials from Extreme Conditions	<b>P. Attfield</b> University of Edinburgh, UK
17:15 - 18:00	<b>Round table PECS / Chemistry and Materials Science</b>	<b>P. McMillan</b>
19:30	<i>Bus Departure from ESRF</i>	
20:00	<i>Workshop Dinner in Grenoble, “Pignol Sainte Cécile”</i>	

**Wednesday, 10<sup>th</sup> February, Auditorium**

09:00 - 12:30	<b>Users' Meeting Morning Session</b>	
12:30 - 14:00	<i>Lunch at the ESRF/ILL Restaurant</i>	
<b>3<sup>rd</sup> Session: Earth and Planetary Science – Chair: S. Merkel</b>		
14:00 - 14:45	Pushing High Pressure Experiments to Extreme Temperatures: the Melting of a Peridotite Sample at Lower Mantle Conditions as an Example	<b>G. Fiquet</b> Université Pierre et Marie Curie, Paris, France
14:45 - 15:15	X-ray Spectroscopy on Fluids at High Pressure and Temperature using Hydrothermal Diamond Anvil Cells	<b>M. Wilke</b> GFZ Postdam, Germany
15:15 - 15:45	Chemically Homogeneous Spin Transition Zone in Earths Lower Mantle	<b>L. Dubrovinsky</b> University of Bayreuth, Germany
16:00 - 16:30	<i>Coffee Break</i>	
16:30 - 17:00	The Stability of Phengites $3T$ and $2M_1$ as a Function of Pressure	<b>G.D. Gatta</b> University of Milano, Italy
17:00 - 17:30	Neutron Diffraction and Planetary Science	<b>J. Loveday</b> University of Edinburgh, UK
17:30 - 18:15	<b>Round table PECS / Earth and Planetary Science</b>	<b>D. Andrault</b> University Blaise Pascal, France
18:30 - 19:50	<i>Joint Poster Session &amp; Cocktail</i>	
20:00 - 22:30	User Meeting Dinner - Young Scientist and Best Poster Awards (Transport will be organized at 22:30 from the ESRF to downtown Grenoble)	

**Thursday, 11<sup>h</sup> February, Auditorium**

09:00 - 12:30	<b>Users' Meeting Morning Session</b>	
12:30 - 14:00	<i>Lunch at the ESRF/ILL Restaurant</i>	
<b>4<sup>th</sup> Session: Hard Condensed Matter – U. Schwarz</b>		
14:00 - 14:45	Megabar Single-Crystal Diffraction at the ESRF	<b>M. McMahon</b> University of Edinburgh, UK
14:45 - 15:15	Pushing High Pressure Experiments to Probe Very Dense Condensed Matter. Where to go using the ESRF?	<b>P. Loubeyre</b> CEA, Bruyères-le-Chatel, France
15:15 - 15:45	Angle-Dispersive Neutron Scattering under High Pressure using the Paris-Edinburgh Cell	<b>T. Strässle</b> PSI Villigen, Switzerland
15:45 - 16:15	<i>Coffee Break</i>	
16:15 - 16:45	Structure of Liquids and Glasses at High Pressure	<b>Ph. Salmon</b> University of Bath, UK
16:45 - 17:15	What can the ILL & ESRF Partnership do beyond User Support?	<b>F. Rodriguez</b> University of Cantabria, Spain
17:15 - 18:00	<b>Round table PECS / Hard Condensed Matter</b>	<b>P. Loubeyre</b>
18:00	<i>End of the Workshop</i>	