

<b>Wednesday, 9<sup>th</sup> February 2022 - Microsymposium UDM1</b> <b>Virtual Symposium</b>		
09:00 – 09:05	<b>Welcome by the Director of Research</b>	<b>Gemma Martinez Criado</b> <i>ESRF, France</i>
09:05 – 09:30	<b>General introduction &amp; High Pressure activities at ESRF-EBS</b>	<b>Mohamed Mezouar</b> <i>ESRF, France</i>
<b>Session I - Static/Dynamic compression: two complementary paths to reach extreme conditions - Chair: A. Ravasio</b>		
09:30 – 10:00	<b>Keynote talk 1:</b> <a href="#">A New Generation of High Pressure Diffraction Experiments at the ESRF-EBS</a>	<b>Malcolm McMahon</b> <i>University of Edinburgh, UK</i>
10:00 – 10:15	<a href="#">X-ray absorption spectroscopy under dynamic compression at ESRF with the High Power Laser Facility</a>	<b>Jean-Alexis Hernandez</b> <i>ESRF, Grenoble, France</i>
10:15 – 10:30	<a href="#">The dynamic compression facility at ESRF: from past experiments to future opportunities</a>	<b>Arnaud Sollier</b> <i>CEA Bruyeres Le Chatel, France</i>
10:30 – 11:00	<i>Break</i>	
<b>Session II – Exploring geomaterials at relevant conditions</b> <b>Chair: C. Sanchez-Valle</b>		
11:00 – 11:30	<b>Keynote talk 2:</b> <a href="#">Local structure in glasses and melts at extreme pressure and new possibilities for extreme conditions research at the ESRF</a>	<b>Max Wilke</b> <i>Potsdam University, Germany</i>
11:30 – 11:50	<a href="#">The effect of silicon and carbon on sound velocities in the core-forming materials</a>	<b>Ilya Kuppenko</b> <i>Münster University, Germany</i>
11:50 – 12:10	<a href="#">Unrevealing deep secrets of Planetary Interiors with extreme condition nano-XAS, XRF and XES at the ESRF-EBS beamlines BM23 and ID24-DCM</a>	<b>Angelika Rosa</b> <i>ESRF, Grenoble, France</i>
12:10 – 12:30	<a href="#">Investigations of mantle mineralogy using the Large Volume Press on ID06</a>	<b>Andrew Thomson</b> <i>University College London, UK</i>
12:30 – 13:30	<i>Break</i>	

Session III – Electronic, thermal and magnetic properties under pressure Chair: R. Torchio		
13:30 – 14:00	<b>Keynote talk 3:</b> <a href="#">Pressure tuning of competing phases in quantum materials</a>	<b>Sofia Michaela Souliou</b> <i>KIT - Karlsruhe, Germany</i>
14:00 – 14:20	<a href="#">Electronic and structural properties of iron-bearing carbonates and silicates – Exploring glasses and melts at the ESRF-EBS</a>	<b>Christian Sternemann</b> <i>TU Dortmund, Germany</i>
14:20 – 14:40	<a href="#">High-pressure induced electronic modifications in 4f and 5d systems by x-ray absorption spectroscopy</a>	<b>Virginia Monteseuro</b> <i>University of Cantabria, Spain</i>
14:40 – 15:00	<a href="#">Magnetism of unconventional superconductor UGe<sub>2</sub> probed by high pressure XMCD</a>	<b>Fabrice Wilhelm</b> <i>ESRF, Grenoble, France</i>
15:00 – 15:30	<i>Break</i>	
Session IV – Emerging topics in High Pressure science Chair: P. Loubeyre		
15:30 – 16:00	<b>Keynote talk 4:</b> <a href="#">New opportunities offered by XPCS at ESRF-EBS to study atomic motion in glasses at high pressure</a>	<b>Beatrice Ruta</b> <i>CNRS-Institut Lumière matière, France</i>
16:00 – 16:20	<a href="#">Bridging the gap between static and dynamic compression: New dynamic DAC developments at the Extreme Conditions Beamline P02.2 at PETRA III</a>	<b>Hanns-Peter Liermann</b> <i>DESY, Hamburg, Germany</i>
16:20 – 16:40	<a href="#">Extreme conditions: towards secure and long-term storage of nuclear waste</a>	<b>Volodymyr Svitlyk</b> <i>ESRF, ROBL CRG, Grenoble, France</i>
16:40 – 17:00	<a href="#">New opportunities for high-pressure chemistry in diamond anvil cells at ESRF-EBS</a>	<b>Maxim Bykov</b> <i>University of Cologne, Germany</i>
17:00 – 17:15	<a href="#">Domain Auto Finder (DAFi) program: the analysis of single-crystal X-ray diffraction data from polycrystalline samples</a>	<b>Andrey Aslandukov</b> <i>University of Bayreuth, Germany</i>
17:15 – 17:30	<b>Closing remarks</b>	<b>Olivier Mathon</b> <i>ESRF, Grenoble France</i>