

EUROMAT 2017 / Symposia Structure / Area C

C.5	Title: Interface Design and Modelling, Wetting and High-Temperature Capillarity		
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	Summary		
<p>This symposium is organized in order to host the summit of the scientific outcome worldwide in the areas of interface design and modelling, capillarity, and wetting phenomena at (predominantly but not exclusively) high temperatures. More specifically, it aims to be an international hub for exchanging ideas and presenting the most recent results in the field of surfaces and interfaces, of wetting and of capillarity in materials, materials processing, and capillarity in crystal growth. These fields will be tackled by both experimental and theoretical studies, which will enrich our knowledge in capillarity and wetting as well as they will emerge novel perceptions, new equipments, and different approaches for studying and analyzing these phenomena.</p> <p>The topics of this symposium will cover the following subjects (but not limited to):</p> <ul style="list-style-type: none"> • Liquid surfaces of metals, glasses and salts; surface energy and adsorption. • Metal-metal, metal-ceramic, metal-glass and ceramic-ceramic interfaces: Wettability, adhesion, interfacial reactions, segregation, grain boundary wetting and intergranular films. • Capillarity in microgravity. • Marangoni phenomena. • Corrosion and embrittlement by liquid metals. • Advances in measurement techniques of capillary properties. • Modelling and simulation. • Materials processing: Crystal growth, foundry processes, composite materials etc. • Joining of metals and ceramics. • Processing of metal matrix composites. <p>Special Issue publication The Symposium Organisers will invite a selected number of authors to submit their full paper for consideration in a special issue of <u>Journal of Materials Engineering & Performance (JMEP)</u>.</p>			