

<b>Bio-Inspired Materials</b>			
<b>F2.I</b>	<b>Organiser</b>	<b>Institution</b>	<b>Contact</b>
	Tobias Kraus	IMN Saarbrücken	Tobias.Kraus@inm-gmbh.de
	Richard Weinkamer	MPI Golm	richard.weinkamer@mpikg.mpg.de
	Mischa Zelzer	Eindhoven University of Technology	m.zelzer@tue.nl
<b>Summary</b>			
<p>The hierarchical combination of organic matter, inorganic mineral phases and living cells in biological materials and their ability for structural adaptation and self-healing find no counterpart in today's artificial materials. This symposium will explore design principles underlying biological materials and present examples of how these design elements can be translated into artificial materials. Both the biomineralization of biological materials and organic and supermolecular bio-inspired materials will be discussed. Special topics will focus on hierarchical architectures and bio-inspired surfaces as well as the experimental characterization of biological and bio-inspired materials.</p>			