

Intermetallics		
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Summary		
B1.III	<p>Recent years have been marked by the return of intermetallics to the top of the chart of materials for high temperature applications in energy conversion and propulsion systems. Several industrial applications, especially of Ti aluminides, seem to have encouraged the scientific community to re-initiate or continue their activities in the field of structural intermetallics. This has been reflected in an increased level of research activities leading to a deeper and more mature understanding of these highly interesting materials. This symposium will focus on recent progress and developments related to microstructure, processing, properties and applications of intermetallic compounds and intermetallic-based alloys. The topics covered include thermodynamic-structure-stability aspects, alloy development, microstructure, mechanical and environmental response to various conditions, progress in production and processing methods, as well as technological considerations for successful commercial applications. Contributions are welcome of both an experimental and modelling nature. From an application perspective, the symposium will concentrate on structural intermetallics, but will also welcome contributions on functional intermetallics, for example for shape memory, hydrogen-storage, or magnetic applications, which concentrate on the processing-structure-defect-property relationships, rather than on aspects related to their physical properties and functionality.</p>	