

Protective coatings and thin films		
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Summary		
C4.1	<p>This symposium will address the current scientific and technological advances in the field of protective coatings and thin films with particular focus on mechanical and tribological properties, oxidation resistance and corrosion. Contributions focused on deposition processes, structural characterization and composition analysis by advanced techniques will be appreciated. Papers investigating mechanical and tribological properties, corrosion and oxidation resistance, and correlations between these properties and deposition parameters, structure or composition of films are encouraged. Thin films deposited by CVD, PVD and related techniques, by various chemical processes, or by surface treatment such as plasma nitridation are in the scope of this symposium, while paints and thick films are not. Papers dealing with modelling of the coating properties or with development of new diagnostic techniques are welcomed. Engineering-oriented contributions including e.g. automotive or energy sectors will also be considered. Hot topics to be covered by the symposium</p> <ul style="list-style-type: none"> ○ Deposition of thin films ○ Novel fabrication and synthesis routes ○ Relations between synthesis conditions, microstructure and properties of thin films ○ Mechanical properties of thin films including those measured at high temperature properties ○ Wear mechanism identification using advanced surface analytical techniques 	