

Chairman	<u><a href="#">Guagliano M.</a></u> - <u><a href="#">Berto F.</a></u>
Topic	<i>Advanced Surfaces and Materials for Superior Properties</i>
Objectives	<p>The topics of the Symposium include, but are not limited to, the following:</p> <ul style="list-style-type: none"> <li>• Fatigue and crack propagation in advanced metallic materials</li> <li>• Influence of advanced manufacturing techniques signature on microstructure</li> <li>• Fatigue behavior of lattice and advanced surface structures</li> <li>• Residual stress measurement in advanced metallic materials</li> <li>• Smart implants for biomedical applications - New generation of prosthetics (complex reticular shapes and multi-material, functionally graded structures)</li> <li>• Characterization of mechanical properties of advanced metallic materials</li> <li>• Development of shock absorbing protection made of crushable materials (lattice cellular structure) using advanced manufacturing techniques</li> <li>• Development of one single part integrating waveguide filter, bends, couplers, supporting structures made by advanced manufacturing techniques</li> <li>• Development of embedded thermal functions in structural parts using advanced manufacturing techniques</li> </ul>