

Preface

Due to their specific properties, composite materials form a unique class of materials. Breakthrough examples of composite materials are increasingly found in transportation vehicles (aerospace, automobile, naval), civil infrastructure (buildings, bridge and highway barriers), energy and biomedical devices etc., owing to an improved understanding of their performance characteristics and application potentials, especially for innovative, robust and reliable, cost-effective structures.

The objective of the 9th International Conference on Composite Science and Technology (ICCST 9) –“2020—Scientific and Industrial Challenges” was to present state-of-the-art achievements and highlight recent advances in composite science and technology, as well as to identify key and emerging issues for future pursuits in various composite fields.

Some of the future directions include increasingly rapid manufacturing processes, multifunctional properties, complex, hybrid, nano-reinforced materials tailored in multiple dimensions and directions and more. Yet, fundamental challenges still exist for full exploitation of what composite materials offer. By bringing together industrial managers, leading experts and promising innovators from research and academia, the ICCST/9 highlighted current challenges and fruitful future directions.

This proceedings seeks to provide the reader with the latest industrial and academic technological and scientific advances, to focus on unresolved issues and to elucidate opportunities for long-term research needs.

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Michele Meo
ICCST/9—Conference Chairman