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Preface

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Preface

The Composites Durability Workshop (CDW) provides a forum to discuss recent progress, exchange new ideas, and plan future efforts to improve the durability of composites in a small and congenial setting. The CDW facilitates international networking of professionals who share the common goal of insuring durable applications of composites in various engineering systems. All topics dealing with composite durability are welcome. Specifically, the following topics related to composites are presented.

Characterization – New test methods, Microstructure-property relationships, Non-destructive testing, etc.

Computational modeling – Multiscale modeling, Elasto-viscoplastic modeling, Atomistic simulations, etc.

Life prediction – Time-dependent characteristics, Statistical approaches, Rupture criterion, etc.

Enhancement – Bio and bio-inspired composites, Nanocomposites, Multifunctional composites, etc.

Applications – Design, Development, Manufacturing, Certification, Health monitoring, etc.

Previous CDWs were held at Kanazawa, Stanford, Albuquerque, Paris, Tokyo, Maui, Zaragoza, Shanghai, Seattle, Jeju Island, St. Maximin, Singapore, Los Angeles, Seoul, and San Jose dos Campos. We held CDW-18 at Sendai on 29 September–1 October 2013. Twenty oral and 13 poster presentations were presented. The presentations were quite high quality, and the workshops have brought together many leading experts in the field to facilitate networking. To commemorate the success of this workshop, we decided to publish a special issue of CDW-18 in *Advanced Composite Materials*, a high-quality international composite journal. Eleven papers are published in this issue. We believe that all of them can contribute significantly to the progress of the composite research field. Finally, we thank Prof. S. Ogihara and Prof. J.-M. Park for accepting the publication of the special issue of CDW-18.

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