

The 5th China Cross-Strait Conference
on Composites Materials

Sponsors

National Natural Science Foundation of China

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Shanghai Jiao Tong University

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Preface

The 5th China Cross-strait Conference on Composite Materials sponsored by National Natural Science Foundation of China and State Key Laboratory of Metal Matrix Composites was held in Shanghai Jiao Tong University on October 22-26, 2006. The purpose of the current conference was to deepen the academic exchanges between outstanding scholars on composite materials from the cross-strait on the basis of the previous four sessions, so as to promote and develop the substantial co-operation in the field of composite materials.

More than 30 researchers and scholars were presented in the current conference. All the papers had been strictly examined and about 40 papers are published as the proceedings of the 5th China Cross-strait Conference on composite materials. During the academic reports and exchanges lasted five days, all the delegates from cross-strait carried academic exchanges and discussions on intention of bilateral cooperation, informed of the latest process of the scientific researches. Both parties also believe that the substantial cooperation between two parties would be carried on in depth and width with the increase of the cross-strait exchanges.

Finally, we would like to express sincere gratitude to all authors for their contributions to the conference. We also express the deepest gratitude to the organizing committee and National Natural Science Foundation of China. Our sincere thanks also go to the publisher who has made the publication of the proceedings possible.

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Preface

The composite materials have been on the central stage of research and development in the material community for decades. The idea of combining metals, ceramics and polymers of various types, shapes and properties into a single composite material embracing the properties that none of the above can have singly, has created ceaseless imagination for the human beings to conceive and immeasurable opportunities for the scientists to grasp, which, therefore, has ignited numerous research and development topics and, thus, many applications. However, despite the advantages of the composite materials, many underlying problems due to the complexity of the system have greatly hindered them from being the major players in daily lives. Needless to say, the challenges imposed on the composite materials community have been the driving force for holding the composite materials conferences, including the cross-strait ones.

The major goal of the cross-strait composite materials conferences has been to establish a platform to bring together the Chinese scientists in the universities, research institutes and industry for presenting, discussing and exchanging the research and development and technical information in the field of composite materials, covering metal, ceramic and polymer based composites. The topics have included the areas related to synthesizing, processing, structure, properties and performance of the composite materials ever since.

The Cross-Strait Composites Materials Conference 2006 was held at Shanghai Jiao Tong University University, Shanghai, PRC on October 22nd – October 26th, 2006, which was the 5th cross-strait conference held since July 2000. The previous four were held in Shanghai in June 2000, in Taipei on November 2001, in Wuhan in October 2003, and in Tainan in 2005.

The editors would like to thank all the contributing authors to the Proceedings, and, especially, the reviewers of the papers who kindly provided their valuable comments. The organizing committee would like to express their sincere gratitude to the National Science Council of Taiwan for financially supporting the Taiwan delegates traveling between Taiwan and mainland China, and to the National Natural Science Foundation of China for the financial support of the Conference and the publication of the Proceedings, as well as the traveling and living expenses of the delegates from Taiwan in mainland China. Finally, our sincere thanks go to all the people behind the scene and the publisher, who have made the publication of the Proceedings possible.

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