

## Preface

The 2<sup>nd</sup> Advanced Materials Conference 2014 (AMC 2014) organized by SIRIM Berhad was held in Langkawi, Kedah Malaysia from 25-26 November 2014 at Bayview Hotel Langkawi. With a theme of “Advanced Materials for Sustainability and Growth”, this conference brings together scientists who play a central role in the development of advanced materials and technology from every sector of academia and industry. The conference aims to develop critical assessment of existing work and future directions in advanced materials research. It serves to provide a communication stage for Malaysian scientists working in the field of advanced materials research and technology with their counterparts from Asian and the rest of the world. The conference is expected to create effective networking and to promote interdisciplinary collaborations among the research institutes, universities and the industries that would contribute to the rapid progress in advanced materials research.

Topics discussed in the conference include:

- Energy and environment
- Composite
- Biomaterials
- Powder production and preparation
- Hard metal, steels and alloys
- Filter and porous materials
- Failure analysis
- Advanced characterizations
- Coating and surface engineering
- Semiconductors, Optical and photonic materials
- Machining/mechanical alloying
- Electrical/magnetic materials
- Automotive applications
- Nuclear materials
- Testing and materials evaluation
- New functional materials

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