

# PREFACE

This volume contains some selected papers from the The Electronic and Green Materials International Conference (EGM 2015), The Engineering Technology International Conference (ET 2015), The Green Design and Manufacture International Conference (GDM 2015) which is to be held in Surabaya, Indonesia during 31<sup>st</sup> July – 1<sup>st</sup> August, 2015, and is organized by Malaysia Research and Innovation Society (MyRIS), Universiti Malaysia Perlis. The conference aims to provide a high level international forum for researchers, engineers and scientists to present their new advances and research results in the field of advanced materials engineering, machines and technology for sustainable manufacturing systems.

This volume covered all the aspects of advanced materials engineering and technology, particularly of advanced characterization, biomaterials, biotechnology and life sciences, building materials, design for sustainability of manufacturing system, optical and photonic materials, machining and any other related topics. All of the papers have been reviewed by more than two expert referees in their relevant topic disciplines. The paper selected for this volume depended on their quality and relevancy to the conference.

The editors hope that this volume will provide the reader a broad overview of the latest advances in the field of advanced materials engineering and technology, and that will be as valuable reference source for further research.

The editors would like to express their sincere appreciations and thanks to all the committee members of the ICONEGM 2015, ICONET 2015, ICONGDM 2015 for their tremendous efforts. Without their dedication, it was impossible to have a successful ICONEGM 2015, ICONET 2015, ICONGDM 2015 and a high quality volume of the conference proceedings. Thanks also to Trans Tech Publications for producing this volume. Finally, the editors would like to thank all the authors for their contribution to this valuable volume.

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Universiti Malaysia Perlis, MALAYSIA

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## **Co-organized by**

International Federation of Inventors' Associations (IFIA)

Faculty of Engineering Technology (FETech), UniMAP

Center of Excellence Geopolymer & Green Technology (CEGeoGTech)

School of Microelectronic Engineering

School of Materials Engineering, UniMAP

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