

## PREFACE

Manufacturing industry is the backbone of national development. To keep a nation in the path of sustainable development research on the advances in manufacturing and material engineering has been playing a vital role and has become indispensable for the growth of any nation. Therefore, the main objective of organizing 'The International Conference on Advances in Manufacturing and Materials Engineering (ICAMME 2012)' is to provide an international technical forum for engineers, academicians, scientists and researchers alike to present results of ongoing research in the field of manufacturing and materials engineering. The primary focus of the conference is to create an effective forum for institutions and industries to share ideas, innovations and problem solving techniques.

The responses from both local and international participants have been very encouraging. The conference has received more than 220 full papers and after careful reviewing of each paper by at least two reviewers only 190 papers are accepted for publication in this journal proceedings.

This conference is planned to address and cover a wide spectrum areas of manufacturing and materials engineering. Therefore, this proceeding is divided into the following areas: Material Removal Processes, Forming Processes, Casting and Joining, Materials, High Energy Beam Processing, Precision Engineering and Nanotechnology, Surface Engineering, Computer Aided Engineering, Environmental Issues and Management in Manufacturing, Manufacturing Systems and Engineering, Value Analysis and Value Engineering, Fatigue and Fracture Mechanics and other related topics. It is expected that this proceeding will be a good archive of research findings, will serve as good reference and provide directions for future research.

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