

PREFACE

The 4th International Conference on Production, Energy and Reliability (ICPER2014), is one of the major conferences of the World Engineering, Science & Technology Congress (ESTCON2014). It was organized by the Mechanical Engineering Department of Universiti Teknologi PETRONAS (UTP) at the Kuala Lumpur Convention Centre, Kuala Lumpur, Malaysia from 3rd to 5th June 2014. The objective of the conference was to serve as a confluent between experts in the academia and industry, to present their up-to-date research and works in areas pertaining to sustainable technologies. The event served as an ideal platform among the participants to interchange novel concepts and latest discoveries around the globe, providing groundwork for future linkages between research and business relations.

The theme of the conference was “Commitment to Sustainable Futures: Enhancing Performance and Reliability”, highlighting the need to boost the effectiveness of manufacturing and the use of energy in order to deliver a sustainable future for mankind. We were fortunate with the presence of two prominent scientists, Professor Eugenio Onate and Professor Morgan R Heikal, who shared their views pertaining to the theme of the conference through their plenary lectures.

A total of 112 papers were presented in 6 different categories, namely Automation and Advanced Manufacturing, Energy and Fuel Technology, Inspection, Maintenance and Operations, Materials and Manufacturing, Plant Integrity and Reliability and Renewable Energy. The conference acted as a platform for participants to update themselves on recent developments in the respective conference topics

Special thanks go to the members of the scientific community who reviewed the papers, the authors for their scientific contribution, the organizing committee for a successful event and the editorial team for their relentless efforts in coordinating the publication of the conference papers in MATEC Web of Conferences.

Thank you.

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Editor-in-chief