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Preface

This book is a compilation of 111 papers that were chosen to be presented at the Malaysian International Tribology Conference (MITC) 2013 held at the Sutera Harbour Resort, Kota Kinabalu, Sabah, Malaysia on the 18th-20th of November 2013.

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Malaysian International Tribology Conference (MITC) 2013

The Malaysian Tribology Society (MYTRIBOS),

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MESSAGE FROM PRESIDENT OF MYTRIBOS

MALAYSIAN TRIBOLOGY SOCIETY (MYTRIBOS), a professional and non-profit organization, effectively bridges the gap among academia, industry and research organizations in the field of tribology. Over the years, the number of members has slowly and steadily increased, which includes both local Malaysian and expatriates working in Malaysia.

Previously, in 2009, MYTRIBOS first organized a conference for local participants. Following that, a regional conference was organized in 2011 and today for the first time, MYTRIBOS is organizing an international conference - Malaysian International Tribology Conference 2013 (MITC2013); which will help to facilitate exchange of information in tribology amongst tribology practitioners all around the world. The conference will explore every aspect of fundamental and applied tribology research.

MYTRIBOS eventual vision and mission is to help reduce energy consumption by making machineries more energy efficient. As efficient machinery means less greenhouse gas (GHG) emission, thus MYTRIBOS is contributing towards the improvement of the environment and to achieve a better quality of life and more sustainable world. MYTRIBOS too is creating awareness of the importance of practicing proper tribology.

Finally, I would like to thank the organizing committee of MITC2013, keynote speakers, local and overseas participants and the sponsors. Without your contribution, organizing such an international conference would not be possible. I hope that this conference will enable us to have a productive discussion, help us to exchange ideas and views and to form future collaborations. Wish you further success in your future endeavors and enjoy your stay in Malaysia; and especially in Sabah 'Land Below the Wind'.

PROFESSOR DR. MASJUKI HASSAN, CEng FIMechE
President, MYTRIBOS

MESSAGE FROM CHAIRMAN OF MITC 2013

On behalf of the organizing committee of MYTRIBOS, I am proud to welcome everyone to the 1st Malaysian International Tribology Conference MITC2013. In earlier events, MYTRIBOS has successfully conducted two conferences: the National Tribology Conference NTC 2009 in Kuala Lumpur and the Regional Tribology Conference RTC 2011 in Langkawi. This year, MYTRIBOS has made a commitment to, once again, organize a conference but at the higher international level. This international conference, MITC2013 is made possible by the support of the tribology community around the globe. For MITC2013 this year, we have received 111 papers from which 70% are local and 30% international. Based on the first authors, we have participants coming from 13 countries namely Malaysia, Japan, Austria, Netherlands, India, China, Korea, Turkey, Qatar, United Kingdom, Philippines, Singapore and Saudi Arabia.

MITC2013 symbolizes our continuous effort to provide a platform for researchers around the globe to meet and share their expertise and findings specifically on tribology related research areas. This conference also provides a platform for networking not only among academicians from different universities and institutes but also between universities and industries.

In MITC2013, we have 6 distinguished keynote speakers from various background; PROF. IR. DR. MOHAMAD NOR BIN BERHAN (Universiti Teknologi MARA, MALAYSIA); PROF. DR. SHIGEYUKI MORI (Iwate University, JAPAN); ASSOC. PROF. DR. SUJEET K. SINHA (Indian Institute of Technology Kanpur, INDIA); DR. YOSHIO KUMADA (Taiho Kogyo Co., Ltd., JAPAN); DR. T.C.S.M. GUPTA (LubeWorld Holdings Sdn. Bhd., MALAYSIA); MR. NARENDRA MOHAN DUBE (DUCOM Instruments Pt. Ltd., INDIA). These outstanding speakers are renowned experts in their fields. They are specifically invited to uphold MITC2013.

We are indeed very honored by the support of TAIHO KOGYO Research Tribology Foundation from Japan and other sponsors of MITC2013 as acknowledged in the Program Book. Your kind gestures are highly appreciated. Finally, to all participants, thank you very much for being part of MITC2013. Your presence in Kota Kinabalu this year is most appreciated and valued. My gratitude also goes to all committee members, your commitment and passion has made this conference possible. Well done everyone!

ASSOC. PROF. DR. SALMIAH KASOLANG
Chairman, MITC 2013

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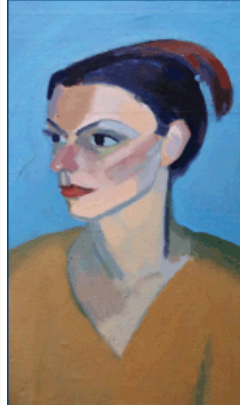
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