Tube Hydroforming Technology 2017

TUBEHYDRO 2017

Proceedings of the 8th International Conference on Tube Hydroforming
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Edited by Purit Thanakijkasem and Ken-Ichi Manabe
Preface

TUBEHYDRO 2017 is the 8th in a series of international conference on tube hydroforming and aims for “Sustainable Manufacturing via Tube hydroforming and Relevant Forming Technology”. TUBEHYDRO 2017 is being organized by King Mongkut’s University of Technology Thonburi (KMUTT), The National Metal and Materials Technology Center (MTEC), Thai Tribology Association (TTA) and Company Research and Development Center (CRDC) during November 14-17, 2017 in Eastin Grand Hotel Sathorn, Bangkok, Thailand. Additionally, China Society for Technology of Plasticity, Japan Society for Technology of Plasticity, Korean Society for Technology of Plasticity, and Taiwan Society for Technology of Plasticity are co-organizers.

This international conference on hydroforming technology was initially established in 2003 at Kariya city, Japan. Subsequent conferences were held as biennial events in Korea (2005), China (2007), Taiwan (2009), Japan (2011), Korea (2013), and China (2015). Tube hydroforming technology has been continuously developed and widely applied in various industries. This conference focused not only on the recent experimental, computational and theoretical research achievements for the tube/sheet hydroforming technology, but also on the industry application development, solutions for mass production and topics concerning quality control. The conference has provided an opportunity for researchers and engineers from industries, academia and research institutes to exchange their innovative ideas and the state-of-the arts on tube/sheet hydroforming technologies of their countries.

In the TUBEHYDRO 2017 conference, there are more than 80 delegates to make 50 presentations from different countries, including China, Germany, Hong Kong, India, Iran, Japan, Korea, Taiwan, Thailand, and United States of America. There are 6 plenary sessions covering recent issues: Prof. Jian Cao (Northwestern University) on "Surface Texturing – Functionality and Manufacturability"; Prof. Yeong-Maw Hwang (National Sun Yat-sen University) on "Recent Developments of Tube Hydroforming Technology in Taiwan"; Prof. Yukihisa Kuriyama (The University of Tokyo) on "Technology Development in Tube Forming"; Dr. Yong-Nam Kwon (Korea Institute of Materials Science) on "Two Step Forming of Al Sheet for Light Weight Automotive Part"; Prof. Gang Liu (Harbin Institute of Technology) on "New development in warm gas forming of Titanium alloy thin-walled parts”; Prof. Ming Wang Fu (The Hong Kong Polytechnic University) on "Quality Control of Metal Forming Products Aided by Finite Element Simulation”

We’d like to thank our sponsors, namely King Mongkut’s University of Technology Thonburi (KMUTT), Nippon Steel & Sumikin Pipe (Thailand) Co.,Ltd. (NSPCT), Thai Summit Automotive Co.,Ltd. (TSA), Tianjin TianDuan Press Co.,Ltd., Henan Xingdi Forging Equipment Manufacturing Co.,Ltd., LPN Metallurgical Research Center (Thailand) Co.,Ltd. (LPNMRC), Thai Airways International Plc. (THAI), Union Stainless Steel Products Co.,Ltd. (USP), and Thailand Convention & Exhibition Bureau (TCEB). Thanks are extended to the local Organizing Committee, whose professional work has ensured the success of the conference.

We expect that the future TUBEHYDRO conference series will continuously contribute to the growth of hydroforming technology in both academia and industry.

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