# Table of Contents

Recent Developments in Tube Hydroforming Technology in Japan (Keynote)  
Sadakatsu Fuchizawa (Japan)  

Economical Aspects and Trends of the Hydroforming Technology (Keynote)  
Klaus-Peter Hennig (Germany)  

State-of-the-Art of Hydroforming Tubes and Sheets in Europe (Invited)  
Mathias Liewald, Stefan Wagner (Germany)  

Development and Applications of Tube Hydroforming in China  
Shijian Yuan, Gang Liu Xiaosong Wang, Cong Han, Bugang Teng, Zhubin He (China)  

Evaluation of Hydroformability of Steel Pipes by Conical Flaring Test  
Ken-ichi Manabe, Yoshinori Yoshida (Japan)  

Development of Automotive Rear Sub-frame by Hydroforming Process  
Kee Joo Kim, Joo-Sung Kim, Byung-Ik Choi, Kyung-Shik Kim, Keun-Hwan Kim, Han Ho Choi, Yeon Sik Kang (Korea)  

3-D Finite Element Simulation of Hydroforming Process  
J.-L. Chenot, E. Massoni, F. Bay (France)  

Hydroforming Presses and Machines – Past, Present and Future  
Colin Macrae (Sweden)  

Sophisticated Process for the Production of Design-Oriented Frame Structure Joints  
Dirk Elsenheimer, Falko Vogler (Germany)  

Generation of Optimal Load Paths in Tube Hydroforming Processes via FEA and an Integrated Fuzzy Logic Load Control Algorithm  
P. Ray, B.J. Mac Donald (India, Ireland)  

Opportunities for Progressive Applications by Means of Integrating and Combining Various Technologies with Hydroforming  
Reimund Neugebauer, Andreas Sterzing, Frank Schieck (Germany)  

Loading Path Optimization in Aluminum Tube Hydroforming using Response Surface Method  
Heon Young Kim, Hyong Jong Kim, Hee Taek Lim (Korea)  

The Development of Large Variation-Cross Section of Aluminum Bike Tube  
C.Y.Chuang, P.K.Cheng, C.C.Huang, C.K.CHIU,Huang, C.S.LIU (Taiwan)  

Electro Magnetic Forming: an Integrated Process for the Hydroforming  
P. Jimbert, I. Perez, B. Gonzalez (Spain)
Study on Forming Zones of Loading Paths During T-Shape Tube Hydroforming Processes by Adaptive Simulations
Yeong-Maw Hwang, Bing-Hong Chen (Taiwan)

Forming Behavior of Shear Bending with Mandrel as Substitution Method of Hydroforming
Takashi Kuboki, Mohammad Goodarzi, Makoto Murata (Japan)

Study on Hot Bulge Forming for Tees of Magnesium Alloy Pipe Joints
Atsushi Okamoto, Hisashi Naoi, Yoshitaka Kuwahara (Japan)

Effect of loading path on the hydroforming of 5A02 aluminum tube at elevated temperature
Zhubin He, Jun Qi, Xiaosong Wang, Shijian Yuan (China)

Research on Tube Hydroforming Numerically and Experimentally
An-Ying YUAN, Shi-Hong ZHANG, Zhong-Tang WANG, Ming CHENG, Li-Xin ZHOU (China)

Preform Section Design and Application in Hydroforming of an Engine Cradle
C. Han, X.S. Wang, S.J. Yuan (China)

Simulation System JSTAMP/NV and Its Applications to Tube Hydro-Forming
N. Ma, Y. Umezu, Y. Watanabe, T. Hamada (Japan)

Optimization of the Manufacture of a Light Weight Magnesium Alloy Pressure Vessel via Spin Forming using FE Simulation and Fuzzy Control
Shoichiro Yoshihara, Bryan J. Mac Donald, Pinaki Ray (Japan, Ireland, India)

Development of a Compact Hydroforming Machine
Lixia Fan, Wenxiu Xin (China)

Investigation into the Forming of Complicated Parts with Poor Formability Materials in Cold/Warm Sheet Hydroforming
Lihui Lang, Shutong Zhang, Tao Li, Dongyang An, Xianbin Zhou (China)

Investigation on Warm Hydroforming of Magnesium Alloy Sheets
Li-Xin Zhou, Shi-Hong ZHANG, Zhong-Tang WANG, Yong-Chao Xu, G. Palumbo, L. Tricarico (China, Italy)

Warm Gas-forming of Aluminum and Copper Sheets
M. Farzin, E. Shahabi (Iran)

Experiment and Simulation of Tube Bending and Hydroforming Processes
H.M. Jiang, X.P. Chen, H.B. Su, C. Han, S.J. Yuan, G. Liu (China)

Mechanical Properties of Tubes and Pre-Form Design in the Tube-Hydroforming Process
Fuh-Kuo Chen, Jheng-Kai Ciou Huang (Taiwan)