



Conference Program

Monday May 26th, 2014

1:30~3:30PM	IIFG Advisory board meeting	KAIST (N7 building RM2504)
4:00~6:00PM	IIFG Plenary meeting	KAIST (N7 building RM2504)
5:00~6:00PM	Registration	DCC(1F Lobby)
6:30~8:00PM	Welcome Reception	DCC(RM 3&4)

Tuesday May 27th, 2014 (at DCC RM 1&2)

Session 0	9:00 ~ 9:10	Opening Ceremony
Session 1 Materials and Measurement Techniques	9:10 ~ 9:30	O. K. Demir, C. Weddeling, N. Ben Khalifa, A. E. Tekkaya Creating Uniaxial Tension with Electromagnetic Forming
	9:30 ~ 9:50	M. Engelhardt, C. Klose Experimental investigations on forming limits for aluminium alloy sheet metal at various strain rates
	9:50 ~ 10:10	E. Uhlmann, L. Prasol, R. Kawalla, C. Schmidt, T. Becker Extension of formability of the magnesium wrought alloy AZ31B-O at room temperature by pulse magnetic forming
	10:10 ~ 10:30	A-C Jeanson, G. Avriilaud, G. Mazars, G. Taber, G. Daehn, F. Bay, N. Jacques, M. Arrigoni Identification of material constitutive parameters for dynamic applications: Magnetic Pulse Forming and electrohydraulic forming
	10:30 ~ 10:50	Coffee break (1F Lobby)
Session 2 Industrial Applications	10:50 ~ 11:10	K. Faes, W. De Waele, M. Müller, H. Cramer Design of Electromagnetic Pulse Crimp Torque Joints
	11:10 ~ 11:30	M. Geyer, A. Rebensdorf, S. Böhm Influence of the Boundary Layer in Magnetic Pulse Sheet Welds of Aluminium to Steel
	11:30 ~ 11:50	Mironovs V., Lapkovskis V., Kolbe M., Zemcenkovs V., Shishkin A. Electromagnetic Fields Using for Powder Metallurgy
	11:50 ~ 12:10	Lu Xin The Present Situation of the Research and Development of the EMF in the China



	12:10 ~ 13:20	Lunch break (DCC RM 3&4)
Session 3 Process Technologies (Welding & Joining)	13:20 ~ 13:40	C. Pabst, P. Groche Electromagnetic Pulse Welding: Process Insights by High Speed Imaging and Numerical Simulation
	13:40 ~ 14:00	A. P. Manogaran, P. Manoharan, D. Priem, S. Marya, G. Racineux Magnetic Pulse Spot Welding: Application to Al/Fe Joining
	14:00 ~ 14:20	S. Veenaas, F. Vollertsen High speed joining process by laser shock forming for the micro range
	14:20 ~ 14:40	J. Y. Shim, D. H. Park, I. S. Kim, B. Y. Kang Effect of Process Variables on the Al/Cu Weldment Using DOE for Magnetic Pulse Welding Process
	14:40 ~ 15:00	Inês Oliveira, Pedro Teixeira, Ana Reis Magnetic Pulse Welding of dissimilar metals: Influence of process parameters
	15:00 ~ 15:20	Coffee break (1F Lobby)
Session 4 Modeling and Simulation (Forming)	15:20 ~ 15:40	J.W. Yoon Modeling of Temperature Dependent Strain Rate Sensitivities of 5xxx Alloys
	15:40 ~ 16:00	Xianlong Liu, Liang Huang, Jianjun Li An experiment and simulation study of the rebound effect in electromagnetic forming process
	16:00 ~ 16:20	Hak Gon Noh, Hong Kyo Kim, Beom Soo Kang, Jeong Kim Numerical and Experimental Approach to Deform the Sheet with Middle Block Die by EMF
	16:20 ~ 16:40	Zhisong Fan, Haiping Yu, Chunfeng Li A numerical investigation on magnetic pulse cladding of bi-metal tubes
	16:40 ~ 17:00	S. K. Salunke, P. P. Date Analysis of Strain Nonuniformity Index (SNI) in electrohydraulically formed sheet metal component
	17:00 ~ 17:20	X. Yao, H. Yang, H.W. Li, S.L. Yan Finite Element Analysis of Electromagnetic Incremental Forming of Cylindrical Components
	18:00 ~ 20:00	Dinner (explore the Korean food)


Wednesday May 28th, 2014 (at DCC RM 1&2)

Session 5 Process Technologies (Welding & Joining)	9:00 ~ 9:20	A. Vivek, B. C. Liu G. S. Daehn Collision Welding of Tungsten Alloy 17D and Copper Using Vaporizing Foil Actuator Welding
	9:20 ~ 9:40	A. Lorenz, J. Lueg-Althoff, G. Göbel, C. Weddeling, E. Beyer, A. E. Tekkaya Influence of Axial Workpiece Positioning during Magnetic Pulse Welding of Aluminum-Steel Joints
	9:40 ~ 10:00	J.-P. Cuq-Lelandais, S.Ferreira, G. Avrillaud, G. Mazars, B. Rauffet Magnetic Pulse Welding: welding windows and high velocity impact simulations
	10:00 ~ 10:20	V. Krutikov, S. Parandin, V. Ivanov, A. Spirin, D. Koleukh, J.-G. Lee, M.-K. Lee, C.-K. Rhee Magnetic Pulsed Welding of the "Tube – Plug" Pair of STS410 Steel
	10:20 ~ 10:40	Coffee break (1F Lobby)
Session 6 Process Technologies (Forming)	10:40 ~ 11:00	W. Homberg, E. Djakow, O. Damerow Process reliability and reproducibility of pneumo-mechanical and electrohydraulic forming processes
	11:00 ~ 11:20	S. Cai, C. Weddeling, A. E. Tekkaya Investigation of Tailored Pressure Distributions by Vaporizing Tailored Foils
	11:20 ~ 11:40	Hyeon Il Park, Daeyong Kim, Jinwoo Lee, Ji Hoon Kim, Myoung-Gyu Lee, Youngseon Lee, Jung Han Song Experimental Study on Electromagnetic Forming of High Strength Steel Sheets with Different Dimensions of Aluminum Driver Plate
	11:40 ~ 12:00	Wen-Ping Wang, Xiang-Dong Wu, Min Wan, Xiao-Wei Chen, Wei-Ren Xiong Ball Pad Mold Electromagnetic Forming Process for Aluminium Alloy Sheet



	12:00 ~ 13:20	Lunch break (DCC RM 3&4)
Session 7 Modeling and Simulation (Forming)	13:20 ~ 13:40	J. Deroy, G. Avriilaud, J.P. Cuq-Lelandais, J.Fuzeau, G. Mazars Electrohydraulic Pressure Characterisation and Use in Fluid/Structure Coupled Simulations for Electro-Hydroforming Applications
	13:40 ~ 14:00	J. K. Doley, S. D. Kore FEM Study on Electromagnetic Formability of AZ31B Magnesium alloy
	14:00 ~ 14:20	M. K. Choi, H. Huh, N. Park, C. G. Jung, J. Nam Numerical Optimization of Combined Deep Drawing and Electromagnetic Corner Fill Process of DP980 Steel Sheet
	14:20 ~ 14:40	Xiaohui Cui, Jianhua Mo, Jianjun Li Research on homogeneous deformation of electromagnetic incremental tube bulging
	14:40 ~ 15:00	Y. Gao, H. Huh The strain-rate effect on the dynamic behaviours of a rectangular conducting plate
		15:00 ~ 15:20
Session 8 Process Technologies (Forming)	15:20 ~ 15:40	S. Gies, C. Weddeling, A. E. Tekkaya Experimental Investigations on the Optimum Driver Configuration for Electromagnetic Sheet Metal Forming
	15:40 ~ 16:00	S.R. Hansen, A. Vivek, G. S. Daehn Control of Velocity, Driving Pressure, and Planarity During Flyer Launch with Vaporizing Foil Actuator
	16:00 ~ 16:20	WeiRen Xiong, WenPing Wang, Min Wan, Long Pan Effect of the duration of electromagnetic pulse force on the rebound suppression in V-bend experiment
	16:20 ~ 16:40	C. G. Park, Y. Choi, J. Y. Shim, B. Y. Kang Using Electromagnetic Pulse Force, A High Speed Forming Press
	16:40 ~ 17:00	Liang Li, Xiaotao Han, Quanliang Cao, Zhipeng Lai, Zhongyu Zhou, Qi Xiong, Xiao Zhang and Qi Chen Development of Space-Time-Controlled Multi-Stage Pulsed Magnetic Field Forming and Manufacturing Technology at the WHMFC
	18:00 ~ 20:00	Banquet



Thursday May 29th, 2014

9:00~12:30PM	Technical Tour	Science Town, Daejeon
12:30~1:30PM	Lunch	Local Restaurant at Jeonjoo
1:30~5:00PM	Cultural Tour	Buyeo(Museum)
5:00~6:00PM	Return to Daejeon	End of Conference