

Preliminary Program - TTP2013

Thursday, 19 September 2013		Friday, 20 September 2013	
08:30-09:30	Registration		
09:30-10:15	Opening Ceremony Prof. Harald Kainz Rector, Graz University of Technology	Keynote Prof. Marion Merklein Head of Institute, LFT Erlangen Sheet-Bulk Metal Forming Processes - State of the Art and its Perspectives	09:00-09:45
10:15-11:00	Keynote Dr. Wolfgang Leitner Chairman of the Board, Andritz AG Andritz Equipment for Automotive Lightweight Design	Keynote Gerald Zwickel, Management of the company, BILSTEIN GmbH & Co. KG Application and Future Developments for Automotive Industry	09:45-10:30
11:00-11:45	Keynote Dr. Thomas Meichsner, Executive Vice President, Magna Cosma Europe Innovative Concepts for Lightweight and Hybrid Structures	Coffee Break	
11:45-12:00	Coffee Break	Y.-C. Hsu*, B.-S. Wu** * Department of Mechanical and Computer-Aided Engineering, National Formosa University ** Institute of Mechanical and Electro-Mechanical Engineering, National Formosa University Deformation of the Bending and Forming of High-Strength Tailor-Welded Steel Blanks Using Hot Stamping	F.-K. Chen*, W-Ch. Chou*, H.-K. Tsai*, S.-W. Wang** * Department of Mechanical Engineering, National Taiwan University ** Steel & Iron Research & Development Department, China Steel Corporation Distortion Analysis in the Stamping of an A-Pillar with Advanced High Strength Steel Sheets
12:00-12:15	Invited Lecture Erland Lundström, More than 30 Years Experience in Hot Stamping, Past and Future	W. Weiß Institute Tools & Forming, TU Graz Simulation of the Hot Forming Process under Consideration of the Thermal State of the Tool	T. Maeno, K. Mori, T. Suganami Department of Mechanical Engineering, Toyohashi University of Technology Semi-Punching in Hot Stamping of Ultra-High Strength Steel Parts
12:15-12:40	J. Aspacher Schuler SMG GmbH & Co. KG Schuler Equipment for Presshardening	V. Ploshikhin*, A. Prihodovsky*, J. Kaiser*, A. Schrooten** * Neue Materialien Bayreuth GmbH ** ThyssenKrupp Steel Europe AG Contact Heating - New Heating Technology for Heat Treatment and Hot Forming Processes	D. Lorenz*, A. Haufe*, M. Feucht** * DYNAmore GmbH ** Daimler AG The Stamping to Crash Simulation Process Chain: A study of Damage Parameters with regard to Element Size Dependency in the Crashworthiness Prediction
12:40-13:05	M. Brandt ThyssenKrupp Tailored Blanks GmbH Serial Application of Tailored-Welded-Blanks in Hot Stamping	N. Pierschel*, A. Paul**, C. Fäth**, F. Schieck** * Chemnitz University of Technology, Institute for Machine Tools and Production Processes (IWP) ** Fraunhofer Institute for Machine Tools and Forming Technology (IWU) Hydroforming and Press Hardening - An Alternative to Multi-Stage Production Processes at Complex Bended Tubes	L.-L. Wang ^{ab} , J. Lin ^{ab} , O. El Fakir ^b , A. Foster ^a , G. Adam ^a , J. Sellors ^c ^a Impression Technologies Ltd ^b Department of Mechanical Engineering, Imperial College London ^c Lotus Engineering HFQ Forming: a Novel Lightweight Sheet Alloy Forming Mass-Production Technology
13:05-14:10	Lunch	M. Hunger Schuler Automation Laser Blanking Technology	S. Pießlinger-Schweiger Poligrat Higher Fatigue Resistance due to POLIGRAT-Processes
14:10-14:35	M. Skrikerud, J. Friberg, P. Josefsson AP&T Influencing Factors when Designing Production of Complex Boron Steel Parts	Lunch	
14:35-15:00	A.Sychold Schwartz WBA Heat Treatment for the Presshardening Process	B.T. Tang***, S. Bruschi**, A. Ghiotti**, P.F. Bariani** * School of Materials Science and Engineering, Shandong Jianzhu University ** DII University of Padova Numerical and Experimental Investigation of the Phase Transformation Behaviour of 22MnB5 in the Tailored Tempering Process	K. Yaya Laboratoire de Technologie des Matériaux et Génie des Procédés, Université A. Mira Study of the Evolution of Microstructural Parameters according to the Rates Macroscopic Deformation of a Dual Phase Steel using Image Analysis Techniques
15:00-15:25	J. Bührle*, F. Kiefer** * Industry Management Automotive, Hotforming TRUMPF Laser-und Systemtechnik GmbH ** TRUMPF GmbH + Co. KG New Trends of Laser Processing within the Process Chain of Hotforming	T. Mennecart, H. ul Hassan, A. Güner, A. E. Tekkaya Institute of Forming Technology and Lightweight Construction, TU Dortmund Reduction of Springback by Use of Drawing Tools with Locally and Temporally Varying Stiffness	M. Doig (inpro), K. Isik (IUL Dortmund), C. Soyarslan (IUL Dortmund), H. Richter (TKSE) Towards Ductile Damage Predictions of Advanced High Strength Steels
15:25-15:50	Coffee Break	M. Liewald, R. Radonjic University of Stuttgart, Institute for Metal Forming Technology (IFU) Strategies for Springback Reduction and Compensation of Advanced High Strength Steels in Forming Processes	K. Bobor, G. Krállics, T. B. Nasser Department of Materials Science and Engineering, Budapest University of Technology and Economics Modeling of Severe Plastic Deformation Processes
15:50-16:20	S. Gelder, G. Jesner Böhler Edelstahl GmbH & Co. KG Influence of Physical and Mechanical Properties of tool Steels for hot Stamping Applications	M. P. Pereira, M. Weiss, B. F. Rolfe Institute for Frontier Materials, Deakin University Towards Tool life Prediction in Sheet Metal Stamping	T. Fröhlich Outokumpu Nirosta GmbH New Lightweight High Strength Austenitic Steels with Maximum Ductility and Excellent Crash Performance
16:20-16:45	D. Haller, F. Schmid Schuler Cartec Competence in Lightweight - Presshardening Tool Technology, Cooling and Heat Transfer	E.A. Nazaryan*, A.S. Simonyan** * Yerevan State University of Armenia, Department of Physics ** Center for the advancement of natural discoveries using light emission Determination of the Mechanical Properties and Processing Characteristics Sheet Molybdenum and Analytical Modeling of Deep Drawing Crucible	Contribution of APERAM
16:45-17:10	I. Valls Rovalma S.A. New developments in High Thermal Conductivity Tool steels for Press Hardening	J. Jiao*, J. Larranaga**, L. Galdos**, B. Rolfe*, M. Weiss* * Institute for Frontier Materials, Deakin University ** Dept. of Mechanical and Industrial Production, Mondragon Unibertsitatea The Effect of Process Parameters on web Warping in the Flexible Roll Forming of UHSS	Closing Remark and Farewell Coffee
17:10-17:35	E. Ratte Zapp PM steels in sheet metal forming	H. M. A. Hussein Advanced Manufacturing Institute, King Saud University Computer Aided Large Die-Set Design	
17:35-18:00	Blue Hour		
19:30-22:00	Banquett		