

time	auditorium	cobol	fortran
08:30	welcome speech		
08:40	<p style="text-align: center;">plenary session</p> <p style="text-align: center;">THE INTERACTION OF STEEL MATERIAL DEVELOPMENT WITH VIRTUAL PRODUCTION EFFORTS</p> <p style="text-align: center;">L. Kessler*</p>		
	robust manufacturing methods	constitutive modeling	localization and failure
09:25	<p><i>MODEL BASED FEEDFORWARD TEMPERATURE REFERENCE CONTROL OF A DEEP DRAWING TOOL</i> T. Böhm*, R. Struck, A. Matveev, T. Meurer, M. Dagen</p>	<p><i>DEVELOPMENT OF THE STRESS RATE DEPENDENCE CONSTITUTIVE MODEL TO PLASTIC ANISOTROPY</i> K. Ito*, N. Mori, G. Uemura, T. Oya, J. Yanagimoto</p>	<p><i>NEW CRITERION DESCRIBING COMBINED EFFECTS OF LODE ANGLE AND SIGN OF PRESSURE ON YIELDING AND VOID EVOLUTION</i> J.L. Alves, O. Cazacu*, B. Revil-Baudard</p>
09:45	<p><i>AN EFFICIENT METHOD TO PREDICT AND CONSIDER PART AND TOOL HEATING DURING PRODUCTION RUNS IN METALFORMING SIMULATIONS</i> D. Lorenz*, A. Emrich</p>	<p><i>CALIBRATION OF BBC2005 YIELD CRITERIA USING PLANE STRAIN YIELDING RESULTS FROM A BULGE TEST</i> L. Paraianu, D.S. Comsa, D. Banabic*</p>	<p><i>PREDICTION OF LOCALIZED NECKING FOR NONLINEAR STRAIN PATHS USING THE MMFC AND THE HAH MODEL</i> N. Manopulo*, P. Peters, P. Hora</p>
10:05	<p><i>CONSIDERATION OF THE IMPACT OF THE BLANK-HOLDER CONTACT CONDITION AFTER DIE TRYOUT IN ROBUSTNESS ANALYSIS</i> A. Emrich, M. Kraft</p>	<p><i>CALIBRATION OF PLASTICITY – AND FAILURE MODELS FOR AHSS SHEETS</i> E.T. Till*, B. Hackl</p>	<p><i>NUMERICAL INVESTIGATION OF SMALL CURVATURE BENDABILITY OF HIGH STRENGTH LOW ALLOYED STEEL IN AIR AND DIE BENDING PROCESSES</i> I. Tsoupis*, S. Hildering, M. Merklein</p>
10:25	coffee break		
10:55	<p><i>ACCOUNTING FOR MATERIAL SCATTER IN SHEET METAL FORMING SIMULATIONS</i> J.H. Wiebenga, E.H. Atzema, R. Boterman, M. Abspoel, A.H. van den Boogaard*</p>	<p><i>INFLUENCE OF NUMBER OF BACKSTRESSES ON THE MIXED HARDENING CHABOCHE-LEMAITRE MODEL FOR MODELLING ROLL LEVELLING PROCESSES</i> E. Silvestre*, J. Mendiguren, E. Saenz de Argandoña, L. Galdos</p>	advances in finite element modeling
			<p><i>SIMULATION BASED METHOD OF SURFACE DEFLECT DETECTION</i> T. Schönbach*, M. Avermann</p>
11:15	<p><i>SYSTEMATIC PROCESS IMPROVEMENT WITH NOISE OF SHEET METAL FORMING PROCESSES</i> M. Stippak*, B. Carleer</p>	<p><i>APPLICATION OF HAH MODEL WITH EXTENSION TO CROSS HARDENING EFFECTS TO DC05 DEEP DRAWING STEEL</i> P. Peters*, N. Manopulo, P. Hora</p>	<p><i>AIR BENT SAFETY COMPONENTS FOR THE CARBODY</i> C. Gasser*, R. Kolleck</p>
11:35	<p><i>DESIGNING AN ITERATIVE LEARNING CONTROL ALGORITHM BASED ON PROCESS HISTORY - USING LIMITED POST PROCESS GEOMETRICAL INFORMATION</i> B. Endelt*, W. Volk</p>	<p><i>PARAMETRIC FORMULATION OF THE FLOW RULE FOR ANISOTROPIC MATERIALS</i> M.P. Sklad*</p>	<p><i>PREDICTION OF PHASE FRACTIONS AND VICKERS HARDNESS IN HOT STAMPING PROCESSES WITH AN ADVANCED MATERIAL MODEL IN LS-DYNA</i> B. Hochholdinger*, D. Lorenz, T. Erhart, M. Schill</p>
11:55	<p><i>APPLICATION OF NON-DESTRUCTIVE TESTING TO CONTROL MATERIAL PROPERTIES OF STAINLESS STEEL IN KITCHEN SINK PRODUCTION</i> J. Heingärtner*, Y. Renkci, P. Hora</p>	<p><i>VIRTUAL DESCRIPTION OF BULK SHEET METAL FORMING PROCESSES CONSIDERING MULTIPHASE MODELS REGARDING THEIR ADJUSTMENT OF PRODUCT PROPERTIES</i> H. Schafstall*, R. Bernhardt, G. Mc Bain</p>	<p><i>HOW TO ENABLE A PROCESS PLANNER TO TAKE BETTER AND TRANSPARENT DECISIONS</i> S. Wagner*</p>
12:15	lunch break		

time	auditorium	cobol	fortran
14:15	<p style="text-align: center;">plenary session PHENOMENOLOGICAL AND NUMERICAL DESCRIPTION OF LOCALIZED NECKING USING GENERALIZED FORMING LIMIT CONCEPT W. Volk*, H. Weiss, D. Jocham, J. Suh</p>		
15:00	<p style="text-align: center;">A GLOBAL VIEW ON THE USE OF ALUMINIUM IN THE AUTOMOTIVE INDUSTRY, TRENDS AND NEW INNOVATIONS D. Jubera*</p>		
15:45	coffee break		
16:15	robust manufacturing methods	advanced experimental methods	technical session: optical measurement systems
	<p><i>INCREASING THE ROBUSTNESS OF SHEET METAL FORMING PROCESSES USING AN INTELLIGENT PLANNING AND CONTROL SYSTEM</i> F. Quetting*, P. Hora, K. Roll</p>	<p><i>A NEW DESIGN OF ELECTRO-MAGNETIC ACTUATOR FOR ELECTRO-MAGNETIC DEEP DRAWING (EMDD) OF AXISYMMETRIC SHELLS</i> M. Singhal, P.P. Date*</p>	<p><i>OPTICAL 3D METROLOGY IN SHEET METAL DEVELOPMENT AND PRODUCTION</i> M. Klein, H. Friebe*</p>
16:35	<p><i>TOWARDS ZERO-DEFECT MANUFACTURING OF SMALL METAL PARTS</i> R. van Ravenswaaij*, R. van Tijum, P. Hora, A.H. van den Boogaard, U. Engel</p>	<p><i>DEVELOPMENT OF A FORMING METHOD USING AN ELASTOMERIC BAG CONTAINING HYDRAULIC FLUID</i> T. Saito*, J. Hiramoto, Y Yamasaki, T. Inazumi</p>	<p><i>APPLICATION EXAMPLES FOR AUTOMATED SURFACE INSPECTION AND 3D-DIGITIZING IN PRESS SHOP AND BODY-IN-WHITE</i> H. Lechner*</p>
16:55	<p><i>A FIRST STEP TOWARDS IN-LINE SHAPE COMPENSATION FOR ROLL FORMING APPLICATIONS</i> B. Abeyrathna*, B. Rolfe, P. Hodgson, M. Weiss</p>	<p><i>COMPARISON OF ELECTRICAL AND THERMAL EFFECTS ON AA 5083 ALUMINUM ALLOY</i> A.D. Pleta, C.P. Nihare*, J.T. Roth</p>	<p><i>SHEET METAL STRAIN ANALYSIS IN INDUSTRIAL ENVIRONMENT</i> R. Höfling*, P. Feldmann</p>
17:15	<p><i>PREDICTION OF GEOMETRICAL VARIATION OF FORGED AND STAMPED PARTS FOR ASSEMBLY VARIATION SIMULATION</i> K. Wärmefjord*, R. Söderberg, P. Ottosson, M. Werke, S. Lorin, L. Lindkvist, F. Wandebäck</p>	<p><i>ON THE DESIGN OF A MULTISTAGE PROCESS IN DRAWN SHEET METAL PRODUCTS USING STRAIN DISTRIBUTION BASED PARAMETERS</i> P. Marathe, P. P. Date*</p>	
17:35	end of session		
19:15	boat cruise		

time	auditorium	cobol	fortran
08:30	plenary session THE CONCEPT OF DAMAGE ACCUMULATION FOR PREDICTING NECKING AND FRACTURE OF SHEETS T. Wierzbicki*, Y. Bai		
09:15	A MODIFIED MOHR COULOMB FRACTURE MODEL FOR ANISOTROPIC METALS T. Stoughton*, J. Yoon		
10:00	INFLUENCE OF THE LODE PARAMETER AND THE STRESS TRIAXIALITY ON THE LOCALIZATION OF ELASTO-PLASTIC POROUS MATERIALS K. Danas*		
10:45	coffee break		
11:15	localization and failure	advances in friction and wear modeling	advances in finite element modeling
	<i>ESTIMATION OF THE LIMIT HOLE EXPANSION RATIO AFFECTED BY PRE-STRAIN PRODUCED DURING HOLE PIERCING PROCESS TO MAKE TEST SPECIMEN</i> K. Ito*, N. Mori, T. Imanaga, M. Narita	<i>EXPERIMENTAL AND NUMERICAL FRICTION CHARACTERIZATION FOR LARGE-SCALE FORMING SIMULATIONS</i> J. Hol*, V.T. Meinders, A.H. van den Boogaard	<i>ANALYSIS METHOD TO IDENTIFY CAUSE OF SPRING-BACK IN PRESS FORMING</i> M. Urabe*, A. Ishiwatari, H. Kano, J. Hiramoto, T. Inazumi
	<i>DEVELOPMENT OF CRACK PREDICTION METHOD CONSIDERING BENDABILITY OF ULTRA-HIGH STRENGTH STEEL SHEETS</i> Y. Fujii*, T. Shinmiya, K. Higai, Y. Yamasaki, T. Inazumi	<i>THE USE OF GEOMETRIC DRAW BEADS FOR TOOL WEAR PREDICTION IN SHEET METAL STAMPING</i> M.P. Pereira*, J.W. Swallow, B.F. Rolfe	<i>TIME-DEPENDENT RESIDUAL STRESS AND GEOMETRY ANALYSIS OF UHSS DEEP DRAWN COMPONENTS</i> B. Wadman*, P. Ottosson, J. Holmberg, L.-O. Ingemars-son, E. Sagström
11:55	<i>COMPARISON BETWEEN THE LEMAITRE AND A MODIFIED LEMAITRE DAMAGE MODEL ON SHEET STEEL BLANKING</i> B.-A. Behrens, A. Bouguecha, I. Peshekhodov, C. Bonk*	<i>WEAR BEHAVIOR OF A MICRO BLANKING AND DEEP DRAWING TOOL COMBINATION WITH DIFFERENT DRAWING RATIO</i> H. Flosky*, F. Vollertsen	<i>INFLUENCE OF USED YIELD FUNCTION IN DEEP DRAWING SIMULATION OF HIGHLY ANISOTROPIC ALUMINUM ALLOY</i> J. Nový*, V. Vaché, J. Sobotka
12:15	lunch break		

time	auditorium	cobol	fortran
14:15	plenary session REDUCED RAMP-UP TIME AND ROBUST PROCESS CONTROL IN AUTOMOTIVE MANUFACTURING H. Walzl, R. Struck*, J. Kappey, A. Eckert, D. Barth		
	localization and failure	advances in friction and wear modeling	constitutive modeling
15:00	<i>OPTIMIZATION OF THE CUTTING EDGE GEOMETRY FOR SINGLE STAGED TRIMMING WITH HIGH CUTTING ANGLES</i> M. Bednarz*, A. Lipp, C. Sunderkötter, T. Hallfeldt, M. Grünbaum, W. Volk	<i>DETERMINATION OF FRICTION COEFFICIENTS FOR VARIOUS LUBRICATION CONDITIONS IN STRETCH FORMING PROCESS</i> C. Karadogan*, C.O. Alkas, H.A. Hatipoglu	<i>A STUDY REVIEW ON YIELDING AND HARDENING BEHAVIOR OF SHEET METAL</i> W-P. Wang, K.-S. Diao, X.-D. Wu*, M. Wan
15:20	<i>INFLUENCE OF THE SHEARED EDGE CONDITION ON THE HOLE EXPANSION OF DUAL PHASE STEEL</i> N. Pathak, C. Butcher*, M. Worswick	<i>THE EFFECT OF ULTRASONIC VIBRATION ON FRICTION IN SHEET METAL FORMING</i> J.Y. Park*, H.Y. Lee, K.C. Park	<i>APPLYING A MODIFIED AUSTENITE TRANSFORMATION MODEL INTO A THERMO-MECHANICAL MODEL OF HOT STAMPING</i> A. Abdollahpoor, X. Chen, M. Pereira*, A. Asgari, N. Xiao, B. Rolfe
15:40	<i>EXPERIMENTAL INVESTIGATION OF THE INFLUENCE OF SHEAR CUTTING PARAMETERS ON THE EDGE CRACK SENSITIVITY OF DUAL PHASE STEELS</i> M. Liewald, M. Gall*	<i>VERIFICATION OF SHEET METAL FORMING SIMULATION OF ADVANCED THIN PLATE PARTS USING A FIRST ORDER FRICTION MODEL</i> P. Gabrielson*, L. Ekdahl, V. Hafsäter, H. Löfgren, J.-E. Ståhl	<i>PREDICTION OF RUPTURE PHENOMENA IN SHEET METAL FORMING</i> M. Gorji*, P. Hora, B. Berisha
16:00	coffee break		
16:30	<i>MULTISCALE SIMULATION OF DUCTILE DAMAGE OF DUAL-PHASE STEELS</i> J. Lian*, S. Münstermann, W. Bleck	springback modeling	forming limits and quality control
		<i>AN ELECTRIC TOUCH FOR ALUMINUM SPRINGBACK ELIMINATION</i> M.A. Lobdell, C.P. Nikhare*, J.T. Roth	<i>EVALUATION METHOD OF STRETCH FLANGE-ABILITY BY STRAIN CONCENTRATION AND STRAIN GRADIENT</i> H. Yoshida*, T. Yoshida, T. Miyagi, K. Sato, J. Nitta, M. Suehiro
16:50	<i>MULTIMODALITY CHARACTERIZATION OF BURR EDGE IN SHEET BLANKING</i> S. Kumar , K. Narasimhan, A.Tewari*, V. Hiwarkar	<i>ON THE VARIATION OF ELASTIC MODULUS IN LOADING, UNLAODING AND RELOADING</i> A. Melander, N. Stenberg*	<i>RELATIONSHIP MODELING OF PROCESS PARAMETERS FOR WRINKLING OPTIMIZATION OF TAIL CAP – AN ATOMOTIVE COMPONENT</i> M. Kakandikar Ganesh*, M. Nandedkar Vilas
17:10	FAILURE PREDICTION METHODS IN 3D ALE FINE BLANKING SIMULATIONS T. Wesner*, N. Manopulo, P. Hora	<i>FINITE ELEMENT SIMULATIONS FOR SHEET METAL FORMING PROCESS WITH FUNCTIONAL INPUT FOR THE MINIMIZATION OF SPRINGBACK</i> H. ul Hassan*, J. Fruth, A. Güner, T. Mennecart, A.E. Tekkaya	<i>FINITE ELEMENT ANALYSIS FOR OPTIMISING PROCESS PARAMETERS IN TUBE HYDROFORMING PROCESS</i> S. Memon, A. Omar, K. Narasimhan*
17:30	end of session		
19.00	gala dinner		

time	auditorium	cobol	fortran
08:30	plenary session TAILORED MATERIAL PROPERTIES IN HOT PRESS FORMING H. Bok, J.W. Choi, M.-G. Lee, F. Barlat*		
	hot forming methods	advanced experimental methods	non-conventional methods
09:15	<i>ZINC-ALLOY COATING– ADVANCED OPTIONS IN HOT PRESS FORMING</i> M. Köyer, T. Gerber, G. Parma, J. Banik, S. Sikora, *F.-J. Lenze	<i>IMPLICATION OF A NEW KIND OF STRUCTURE BUILDING DURING DEEP DRAWING TO MINIMIZE LOCAL IMPERFECTIONS IN CRASH PERFORMING ELEMENTS</i> H. Niemeier*, X. Jing, W. Päufer, T. Ludewig, J. Schrödter, S. Hübner, B.-A. Behrens	<i>IMPROVING THE SURFACE QUALITY IN THE INCREMENTAL SHEET FORMING PROCESS</i> B. Lu, J. Chen*, X. Song, J. Cao
09:35	<i>TOWARDS THE GENERATION OF TAYLORED TEMPERED COMPONENTS: CONCEPT DEFINITION AND PROCESS PARAMETERS OPTIMIZATION</i> L. Galdos*, E. Sáenz de Argandoña, R. Ortubay	<i>SENSITIVITY ANALYSIS ON THE CALCULATED BENDING ANGLE IN THE INSTRUMENTED BENDING TEST</i> P. Larour*, B. Hackl, F. Leomann	<i>INFLUENCE OF BHF-PUNCH MOTION ON DRAWABILITY OF AHSS SHEETS</i> O. Majidi, M.-G. Lee, F. Barlat*
09:55	<i>A NEW TRY OF HOT STAMPING PROCESS WITH HIGHER STRENGTH-DUCTILITY BALANCE</i> X. Han*, P.S. Xin, X. Hao, Z.S. Cui	<i>ADVANCED SHEET METAL PARTS QUALITY CONTROL IN THE PRESS SHOP TO ACHIEVE ZERO DEFECT STAMPING PRODUCTION</i> Q. Braun*, D. Hortig, M. Merklein	<i>ADVANTAGES OF CONTROLLED MOTION IN NONISOTHERMAL WARM FORMING</i> S. Kaya*
10:15	coffee break		
10:45	<i>FORMING ANALYSIS IN PRESS HARDENING</i> C. Sunderkoetter*, H.-E. Marusch, A. Plath	innovative materials <i>DEVELOPMENTS OF MG WARM FORMING TECHNOLOGIES</i> S.-H. Zhang*, G.-S. Song, L. Zheng	<i>FORMING BEHAVIOR OF THIN FOILS</i> S.V. Joshi, H. Puthran, K. Narasimhan*
11:05	<i>WARM BULGE TESTING OF ADVANCED HIGH STRENGTH STEELS</i> M.-G. Lee*, J.-Y. Lee, L. Xu, F. Barlat, R.H. Wagoner	<i>FORMABILITY OF TP340 PURE TITANIUM SHEET IN DEEP DRAWING SUPERIMPOSED ULTRASONIC VIBRATION</i> G. Iwamatsu*, Y. Okude, S. Yoshihara, T. Ishii	<i>STAGE COEFFICIENTS STUDY FOR MULTISTAGE DRAWING IN STRETCHING MODE</i> A. Danel, A. Maillard*
11:25	<i>PROCESSING OF ULTRA HIGH-STRENGTH STEELS INVOLVING THERMO-MECHANICAL HARDENING EFFECTS</i> W. Homberg, T. Rostek*		
11:45	lunch break		
13:00	departure technical tours		