

ID	Authors	Title	Presenter	Tuesday, 5th May UTC+2h		Wednesday, 6th May UTC+2h	
				Core time 1	Core time 2	Core time 1	Core time 2
<b>Keynotes</b>							
-	-	Industrial Impact of Damage in Metal Forming	Tekkaya, A. Erman	09:00 - 10:00	14:00 - 15:00	09:00 - 10:00	14:00 - 15:00
-	-	Joining by Forming	Martins, Paulo A.F.	10:00 - 11:00	15:00 - 16:00	10:00 - 11:00	15:00 - 16:00
-	-	Specific 3D and shell approaches for the simulation of textile composite forming	Boisse, Philippe	11:00 - 12:00	14:00 - 15:00	11:00 - 12:00	16:00 - 17:00
-	-	Advances in Magnetic Field-Assisted Finishing	Yamaguchi, Hitomi	13:00 - 14:00	15:00 - 16:00	13:00 - 14:00	17:00 - 18:00
-	-	The reality of AM Serial Production	Zettler, Joachim	09:00 - 10:00	14:00 - 15:00	09:00 - 10:00	14:00 - 15:00

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<b>MS01 COMPOSITES FORMING PROCESSES</b>							
110	Vedernikov, Alexander; Tucci, Fausto; Safonov, Alexander; Carlone, Pierpaolo; Gusev, Sergey; Akhatov, Iskander	Investigation on the Shape Distortions of Pultruded Profiles at Different Pulling Speed	Vedernikov, Alexander	09:00 - 10:00	14:00 - 15:00	09:00 - 10:00	14:00 - 15:00
123	Leminen, Ville; Tanninen, Panu; Matthews, Sami; Niini, Arvo	The Effect of Heat Input on the Compression Strength and Durability of Press-formed Paperboard Trays	Leminen, Ville	10:00 - 11:00	15:00 - 16:00	10:00 - 11:00	15:00 - 16:00
126	Behrens, Bernd-Amo; Bohne, Florian; Lorenz, Ralf; Arndt, Hendrik; Hübner, Sven; Micke-Camuz, Moritz	Numerical and Experimental Investigation of GMT Compression Molding and Fiber Displacement of UD-Tape Inserts	Micke-Camuz, Moritz	11:00 - 12:00	14:00 - 15:00	11:00 - 12:00	16:00 - 17:00
130	Kunze, Eckart; Schwarz, Benjamin; Weber, Tony; Müller, Michael; Böhm, Robert; Gude, Maik	Forming analysis of internal plies of multi-layer unidirectional textile preforms using projectional radiography	Kunze, Eckart	13:00 - 14:00	15:00 - 16:00	13:00 - 14:00	17:00 - 18:00
131	Xiao, Zhaofei; Ackermann, Annika; Harrison, Philip	Manual 2-dimensional fabric steering, for the manufacture of variable stiffness panels	Xiao, Zhaofei	09:00 - 10:00	14:00 - 15:00	09:00 - 10:00	14:00 - 15:00
136	Grouve, Wouter; Vrugink, Evan; Sacchetti, Francisco; Akkerman, Remko	Induction heating of UD C/PEKK cross-ply laminates	Grouve, Wouter	10:00 - 11:00	15:00 - 16:00	10:00 - 11:00	15:00 - 16:00
152	Heggemann, Thomas; Homberg, Werner; Sapli, Hüseyin	Combined Curing and Forming of Fiber Metal Laminates	Heggemann, Thomas	11:00 - 12:00	14:00 - 15:00	11:00 - 12:00	16:00 - 17:00
156	Falascetti, Maria Pia; Rondina, Francesco; Donati, Lorenzo; Troiani, Enrico	Influence of Simulation Parameters in The Combined Loading Compression Testing of CFRP Specimens.	Falascetti, Maria Pia	13:00 - 14:00	15:00 - 16:00	13:00 - 14:00	17:00 - 18:00
160	Matthews, Sami; Toghyani, Amir; Ollikainen, Mikael; Tanninen, Panu; Leminen, Ville; Varis, Juha	Effect of stamping clearance in rapid CNC punching of WPC sheets	Matthews, Sami	09:00 - 10:00	14:00 - 15:00	09:00 - 10:00	14:00 - 15:00
164	BAI, Renzi; Boisse, Philippe; Liang, Biao; Naouar, Naim; Colmars, Julien	A shell formulation for textile composite forming simulations	Bai, Renzi	10:00 - 11:00	15:00 - 16:00	10:00 - 11:00	15:00 - 16:00
167	Engelfried, Mathias; Aichele, Benedikt; Middendorf, Peter	Investigation of the Friction between Dry and Wetted Carbon Filaments	Engelfried, Mathias	11:00 - 12:00	14:00 - 15:00	11:00 - 12:00	16:00 - 17:00
174	Fial, Julian; Carosella, Stefan; Ring, Laurin; Middendorf, Peter	Shear Characterization of Reinforcement Fabrics using Textile-applied printed Strain Sensors	Fial, Julian	13:00 - 14:00	15:00 - 16:00	13:00 - 14:00	17:00 - 18:00
175	Mulye, Paris Dilip; Hemmer, Julie; Morançay, Lionel; Binetruy, Christophe; Leygue, Adrien; Comas-Cardona, Sebastien; Pichon, Pierre; Guillon, Damien	Numerical Modeling of Interply Adhesion in Composite Forming of Viscous Discontinuous Thermoplastic Prepregs	Mulye, Paris Dilip	09:00 - 10:00	14:00 - 15:00	09:00 - 10:00	14:00 - 15:00
177	Naouar, Naim; Colmars, Julien; Boisse, Philippe	Meso-macro FE modelling of composite forming	Boisse, Philippe	10:00 - 11:00	15:00 - 16:00	10:00 - 11:00	15:00 - 16:00
180	Tanninen, Panu; Leminen, Ville; Pesonen, Antti; Matthews, Sami; Varis, Juha	Surface Fracture Prevention in Paperboard Press Forming with Advanced Force Control	Tanninen, Panu	11:00 - 12:00	14:00 - 15:00	11:00 - 12:00	16:00 - 17:00
187	Poppe, Christian; Albrecht, Fabian; Krauß, Constantin; Kärger, Luise	A 3D Modelling Approach for Fluid Progression during Process Simulation of Wet Compression Molding – Motivation & Approach	Poppe, Christian Timo	13:00 - 14:00	15:00 - 16:00	13:00 - 14:00	17:00 - 18:00
211	Qian, Connie; Weare, Rachel; Pasco, Corentin; Kourra, Nadia; Attridge, Alex; Williams, Mark; Kendall, Kenneth	Numerical and Experimental Studies of Multiply Woven Carbon Fibre Prepreg Forming Process	Qian, Connie Cheng	09:00 - 10:00	14:00 - 15:00	09:00 - 10:00	14:00 - 15:00
212	Zink, Dennis; Huber Jr., Maximilian; Middendorf, Peter	FormPATCH - Forming of Complex Composite Structures using Patching Technologies	Zink, Dennis	10:00 - 11:00	15:00 - 16:00	10:00 - 11:00	15:00 - 16:00
214	Yousfi, Mohamed; Dkier, Mohamed; Colella, Marion; Lamnawar, Khalid; Maazouz, Abderrahim	Composites based on polyphthalamides matrices and continuous glass fibers: Rheology- Processing and Properties relationships	Lamnawar, Khalid	11:00 - 12:00	14:00 - 15:00	11:00 - 12:00	16:00 - 17:00
223	Lopresto, Valentina; Papa, Ilaria; Ricciardi, Maria Rosaria; Russo, Pietro	The influence of temperature on the low-velocity impact response of polyamide 6/basalt plain fabric laminates	Lopresto, Valentina	13:00 - 14:00	15:00 - 16:00	13:00 - 14:00	17:00 - 18:00
231	Dörr, Dominik; Gergely, Ryan; Ivanov, Stanislav; Kärger, Luise; Henning, Frank; Hrymak, Andrew	On the Applicability of Thermoforming Characterization and Simulation Approaches to Glass Mat Thermoplastic Composites	Dörr, Dominik	09:00 - 10:00	14:00 - 15:00	09:00 - 10:00	14:00 - 15:00
233	Simon, Jessy; Hamila, Nahiene; Binetruy, Christophe; Comas-Cardona, Sébastien	A first step towards the numerical simulation of the forming of flat TFP preforms	Simon, Jessy	10:00 - 11:00	15:00 - 16:00	10:00 - 11:00	15:00 - 16:00
240	Müller, Michael; Gerritzen, Johannes; Gröger, Benjamin; Gude, Maik	Thermomechanical Characterization of a Fast Curing Epoxy Resin for Simulation of Surface Waviness	Müller, Michael	11:00 - 12:00	14:00 - 15:00	11:00 - 12:00	16:00 - 17:00
258	Schäfer, Bastian; Dörr, Dominik; Kärger, Luise	Reduced-Integrated 8-Node Hexahedral Solid-Shell Element for the Macroscopic Forming Simulation of Continuous Fibre-Reinforced Polymers	Schäfer, Bastian	13:00 - 14:00	15:00 - 16:00	13:00 - 14:00	17:00 - 18:00
265	Kärger, Luise; Galkin, Siegfried; Dörr, Dominik; Poppe, Christian	Capabilities of Macroscopic Forming Simulation for Large-Scale Forming Processes of Dry and Impregnated Textiles	Kärger, Luise	09:00 - 10:00	14:00 - 15:00	09:00 - 10:00	14:00 - 15:00

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<b>MS01 COMPOSITES FORMING PROCESSES</b>							
270	Tucci, Fausto; Esperto, Vitantonio; Rubino, Felice; Carlone, Pierpaolo	Experimental Measurement of the Resistant Load in Injection Pultrusion Processes	Tucci, Fausto	09:00 - 10:00	14:00 - 15:00	09:00 - 10:00	14:00 - 15:00
274	Werner, Henrik Oliver; Poppe, Christian; Henning, Frank; Kärger, Luise	Material Modeling in Forming Simulation of Three-Dimensional Fiber-Metal-Laminates – A Parametric Study	Werner, Henrik Oliver	10:00 - 11:00	15:00 - 16:00	10:00 - 11:00	15:00 - 16:00
295	Barry, Catherine; Panerai, Francesco; Bergeron, Keith; Stapleton, Scott; Sherwood, James	Mesomechanical Modeling of Braided Cords	Barry, Catherine Patricia	11:00 - 12:00	14:00 - 15:00	11:00 - 12:00	16:00 - 17:00
298	Haguenauer, Victor; Becker, Eric; Freund, Ludovic; Bigot, Régis; Bonnet, Nicolas	Forging C/Thermoplastic Printed Composite; Shaping Parameters Impact	Haguenauer, Victor	13:00 - 14:00	15:00 - 16:00	13:00 - 14:00	17:00 - 18:00
349	Wackerle, Stephan; Orlik, Julia; Hauck, Michael; Lykhachova, Olga; Steiner, Konrad	The way to design a textile with required critical folding deformation	Lykhachova, Olga	09:00 - 10:00	14:00 - 15:00	09:00 - 10:00	14:00 - 15:00
350	Esselink, Frank Sebastiaan; Hosseini, Seyed Mohammad Amin; Baran, Ismet; Akkerman, Remko	Optimization of Laser-Assisted Tape Winding/Placement Process using Inverse Optical Model	Esselink, Frank Sebastiaan	10:00 - 11:00	15:00 - 16:00	10:00 - 11:00	15:00 - 16:00
356	Reuter, Jonas; Böcking, Jan; Engel, Bernd	End-forming of continuous fibre-reinforced thermoplastic tubes	Reuter, Jonas	11:00 - 12:00	14:00 - 15:00	11:00 - 12:00	16:00 - 17:00
368	Sun, Xiaochuan; Wang, Wei-Ting; Belnoue, Jonathan; Kim, ByungChul(Eric); Hallett, Stephen	Virtual Un-manufacturing of Fibre-steered Preforms for Complex Geometry Composites	Sun, Ric Xiaochuan	13:00 - 14:00	15:00 - 16:00	13:00 - 14:00	17:00 - 18:00

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<b>MS02 EXTRUSION AND DRAWING</b>							
134	Negozio, Marco; Pelaccia, Riccardo; Donati, Lorenzo; Reggiani, Barbara; Tomesani, Luca; Pinter, Tommaso	FEM validation of front end and back end defects evolution in AA6063 and AA6082 aluminum alloys profiles	Negozio, Marco	09:00 - 10:00	14:00 - 15:00	09:00 - 10:00	14:00 - 15:00
146	Pelaccia, Riccardo; Negozio, Marco; Reggiani, Barbara; Donati, Lorenzo; Tomesani, Luca	Efficiency of conformal cooling channels inserts for extrusion dies	Pelaccia, Riccardo	10:00 - 11:00	15:00 - 16:00	10:00 - 11:00	15:00 - 16:00
198	Kishimoto, Takuma; Sakaguchi, Hayate; Suematsu, Saki; Tashima, Kenichi; Kajino, Satoshi; Gondo, Shiori; Suzuki, Shinsuke	Outer Diameter and Surface Quality of Micro Metal Tubes in Hollow Sinking	Kishimoto, Takuma	11:00 - 12:00	14:00 - 15:00	11:00 - 12:00	16:00 - 17:00
236	Behrens, Bernd-Arno; Uhe, Johanna; Thürier, Susanne Elisabeth; Klose, Christian; Heimes, Norman	Development of a Modified Tool System for Lateral Angular Co-Extrusion to Improve the Quality of Hybrid Profiles	Heimes, Norman	13:00 - 14:00	15:00 - 16:00	13:00 - 14:00	17:00 - 18:00
348	Costa, André Luiz de Moraes; da Silva, Uilian Souza; Valberg, Henry Sigvart	On the friction conditions in FEM simulations of Cold Extrusion	Costa, André Luiz	09:00 - 10:00	14:00 - 15:00	09:00 - 10:00	14:00 - 15:00
354	Sanabria, Vidal; Gensch, Felix; Mueller, Soeren	Application of Friction Shear Test for Constitutive Modeling Evaluation of Magnesium Alloy AZ31B at high Temperature	Sanabria, Vidal	10:00 - 11:00	15:00 - 16:00	10:00 - 11:00	15:00 - 16:00
386	Valberg, Henry Sigvart; Lefstad, Martin; Costa, André Luiz de Moraes	On the mechanism of formation of back end defects in the extrusion process	Valberg, Henry Sigvart	11:00 - 12:00	14:00 - 15:00	11:00 - 12:00	16:00 - 17:00
437	Dariusz, Lesniak; Pawel, Gromek	Estimation of extrusion welding conditions for 6xxx aluminum alloys	Gromek, Pawel	13:00 - 14:00	15:00 - 16:00	13:00 - 14:00	17:00 - 18:00

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<b>MS03 FORGING AND ROLLING</b>							
144	Meiners, Frank; Ihne, Jörg; Jürgens, Pascal; Hemes, Susanne; Mathes, Michael; Sizova, Irina; Bambach, Markus; Hama-Saleh, Rebar; Weisheit, Andreas	New Hybrid Manufacturing Routes Combining Forging and Additive Manufacturing to Efficiently Produce High Performance Components from Ti-6Al-4V	Meiners, Frank	09:00 - 10:00	14:00 - 15:00	09:00 - 10:00	14:00 - 15:00
191	Biba, Nikolay; Vlasov, Andrey; Krivenko, Dmitry; Duzhev, Alexey; Stebunov, Sergey	Closed Die Forging Preform Shape Design Using Isothermal Surfaces Method	Biba, Nikolay	10:00 - 11:00	15:00 - 16:00	10:00 - 11:00	15:00 - 16:00
195	Petrov, Pavel; Matveev, Alexey; Kulikov, Maksim; Stepanov, Boris; Petrov, Mikhail; Burlakov, Igor; Dixit, Uday Shanker	Finite-Element Modelling of Forging With Torsion: investigation of heat effect	Petrov, Pavel A.	11:00 - 12:00	14:00 - 15:00	11:00 - 12:00	16:00 - 17:00
204	Herrmann, Marius; Schenck, Christian; Leopold, Heiko; Kuhfuss, Bernd	Material improvement of mild steel S355J2C by hot rotary swaging	Herrmann, Marius	13:00 - 14:00	15:00 - 16:00	13:00 - 14:00	17:00 - 18:00
215	Bambach, Margarita D.; Seifert, Daniel; Sizova, Irina	Intensive Forming of Grade 5 Titanium Bars with Increased Performance for Aerospace Applications	Bambach, Margarita D.	09:00 - 10:00	14:00 - 15:00	09:00 - 10:00	14:00 - 15:00
218	Behrens, Bernd-Arno; Volk, Wolfram; Maier, Daniel; Scandola, Lorenzo; Ott, Michael; Büdenbender, Christoph; Till, Michael	A Combined Numerical and Experimental Investigation on Deterministic Deviations in Hot Forging Processes	Till, Michael	10:00 - 11:00	15:00 - 16:00	10:00 - 11:00	15:00 - 16:00
222	Behrens, Bernd-Arno; Diefenbach, Julian; Chugreeva, Anna; Kahra, Christoph; Herbst, Sebastian; Nürnberger, Florian	Tailored Forming of Hybrid Bevel Gears with Integrated Heat Treatment	Chugreeva, Anna	11:00 - 12:00	14:00 - 15:00	11:00 - 12:00	16:00 - 17:00
263	Behrens, Bernd-Arno; Uhe, Johanna; Wester, Hendrik; Matthias, Tim; Büdenbender, Christoph	FE-based Layer Design of Deposition-Welded Semi-finished Parts for the Production of Hybrid Bevel Gear	Büdenbender, Christoph	13:00 - 14:00	15:00 - 16:00	13:00 - 14:00	17:00 - 18:00
323	Behrens, Bernd-Arno; Wester, Hendrik; Matthias, Tim; Hübner, Sven; Wälder, Jonas; Müller, Philipp	Investigation of the Influence of an Oscillation Superposition on the Wear Behaviour in an Industrial-like Process	Müller, Philipp	09:00 - 10:00	14:00 - 15:00	09:00 - 10:00	14:00 - 15:00
341	Agirre, Julen; Otegi, Nagore; Abedul, David; Oruna, Angel; Galdos, Lander	Monitoring of a Hammer Forging Testing Machine for High-Speed Material Characterization	Agirre, Julen	10:00 - 11:00	15:00 - 16:00	10:00 - 11:00	15:00 - 16:00
360	Behrens, Bernd-Arno; Ursinus, Jonathan	Production, Bonding and Application of Metal Matrix Composite Hot Forging Tool Components	Ursinus, Jonathan	11:00 - 12:00	14:00 - 15:00	11:00 - 12:00	16:00 - 17:00
380	Ghiotti, Andrea; Brun, Michele; Simonetto, Enrico; Bruschi, Stefania; Muffato, Giorgio	Insights in Strain and Stress States of Conical Shapes Flow Forming	Brun, Michele	13:00 - 14:00	15:00 - 16:00	13:00 - 14:00	17:00 - 18:00
415	Michl, Dennis; Sydow, Benjamin; Bambach, Markus	Ring rolling of pre-forms made by wire-arc additive manufacturing	Michl, Dennis & Sydow, Benjamin	09:00 - 10:00	14:00 - 15:00	09:00 - 10:00	14:00 - 15:00
427	Widomski, Pawel; Gronostajski, Zbigniew	Comprehensive review of methods for improving the durability of hot forging tools	Widomski, Pawel	10:00 - 11:00	15:00 - 16:00	10:00 - 11:00	15:00 - 16:00
433	Kriwall, Mareile; Stonis, Malte; Bick, Tobias; Treutler, Kai; Wesling, Volker	Dependence of the Joint Strength on Different Forming Steps and Geometry in Hybrid Compound Forging of Bulk Aluminum Parts and Steel Sheets	Kriwall, Mareile	11:00 - 12:00	14:00 - 15:00	11:00 - 12:00	16:00 - 17:00

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<b>MS04 INNOVATIVE JOINING BY FORMING TECHNOLOGIES</b>							
115	Ott, Constantin; Wolf, Michael; Drummer, Dietmar	Media-Tight Polymer-Polymer Assemblies By Means Of Sintered Powder Layer In Assembly Injection Moulding	Ott, Constantin	09:00 - 10:00	14:00 - 15:00	09:00 - 10:00	14:00 - 15:00
122	Jaeckel, Mathias; Coppieters, Sam; Vandermeiren, Nelis; Kraus, Christian; Drossel, Welf-Guntram; Miyake, Noa; Kuwabara, Toshihiko; Unruh, Klaus; Traphöner, Heinrich; Tekkaya, A. Erman; Balan, Tudor	Process-oriented Flow Curve Determination at Mechanical joining	Jaeckel, Mathias	10:00 - 11:00	15:00 - 16:00	10:00 - 11:00	15:00 - 16:00
128	Wolf, Michael; Drummer, Dietmar	Influence Of The Structuring-Tool Geometry On Form-Fit Joining By Use Of Pin-Like Structures In Vibration Welding Process	Wolf, Michael	11:00 - 12:00	14:00 - 15:00	11:00 - 12:00	16:00 - 17:00
159	Kraus, Christian; Falk, Tobias; Mauermann, Reinhard; Drossel, Welf-Guntram	Development of a New Self-flaring Rivet Geometry Using Finite Element Method and Design of Experiments	Kraus, Christian	13:00 - 14:00	15:00 - 16:00	13:00 - 14:00	17:00 - 18:00
245	Gagliardi, Francesco; Conte, Romina; Pulice, Diego; Ambrogio, Giuseppina	Joining Feasibility between Metallic- and Polymeric-based materials by Friction Stir Forming	Conte, Romina	09:00 - 10:00	14:00 - 15:00	09:00 - 10:00	14:00 - 15:00
266	Rostek, Tim; Wiens, Eugen; Homburg, Werner	Joining with Versatile Friction-Spun Joint Connectors	Rostek, Tim	10:00 - 11:00	15:00 - 16:00	10:00 - 11:00	15:00 - 16:00
269	Buffa, Gianluca; Campanella, Davide; Forcellese, Archimede; Fratini, Livan; Simoncinic, Michela	Solid state joining of thin hybrid sandwiches made of steel and polymer: a feasibility study	Buffa, Gianluca	11:00 - 12:00	14:00 - 15:00	11:00 - 12:00	16:00 - 17:00
374	dos Santos Mallmann, Paulo Henrique; Blaga, Lucian-Attila; Fernandez dos Santos, Jorge; Klusemann, Benjamin	Friction Riveting of 3D Printed Polyamide 6 with AA 6056-T6	Blaga, Lucian-Attila	13:00 - 14:00	15:00 - 16:00	13:00 - 14:00	17:00 - 18:00
416	Potgorschek, Lukas; Domitner, Josef; Hönsch, Florian; Sommitsch, Christof; Kaufmann, Stefan	Numerical Simulation of Hybrid Joining Processes: Self-piercing Riveting Combined with Adhesive Bonding	Domitner, Josef	09:00 - 10:00	14:00 - 15:00	09:00 - 10:00	14:00 - 15:00
421	Martin, Sven; Camberg, Alan A.; Tröster, Thomas	Probability distribution of joint point loadings in car body structures under global bending and torsion	Martin, Sven	10:00 - 11:00	15:00 - 16:00	10:00 - 11:00	15:00 - 16:00

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<b>MS05 INTEGRATED MANUFACTURING AND SUSTAINABILITY</b>							
149	Barroqueiro, Bruno; Andrade-Campos, Antonio; Valente, Robertt	Integrated Methodology for Designing Structures coming from Additive Layer Manufacturing	Valente, Robertt & Barroqueiro, Bruno	09:00 - 10:00	14:00 - 15:00	09:00 - 10:00	14:00 - 15:00
217	Andrade-Campos, A.; Thuillier, S.; Martins, J.; Carlone, P.; Tucci, F.; Valente, R.; Paulo, R.M.F.; Alves de Sousa, R.J.	Integrated Design in Welding and Incremental Forming: Material Model Calibration for Friction Stir Welded Blanks	Andrade-Campos, António Gil	10:00 - 11:00	15:00 - 16:00	10:00 - 11:00	15:00 - 16:00
244	Esperto, Vitantonio; Boccarusso, Luca; Durante, Massimo; Carrino, Luigi; Carlone, Pierpaolo	Permeability Analysis of Natural and Artificial Fiber Textiles for Liquid Composite Molding Process	Esperto, Vitantonio	11:00 - 12:00	14:00 - 15:00	11:00 - 12:00	16:00 - 17:00
275	Rubino, Felice; Esperto, Vitantonio; Paulo, Rui Miguel Ferreira; Tucci, Fausto; Carlone, Pierpaolo	Integrated Manufacturing of AA6082 by Friction Stir Welding and Incremental Forming: Strain Analysis of Deformed Samples	Carlone, Pierpaolo	13:00 - 14:00	15:00 - 16:00	13:00 - 14:00	17:00 - 18:00
336	Demler, Eugen; Götze, Stanislav; Herbst, Sebastian; Nürnberger, Florian; Ursinus, Jonathan; Büdenbender, Christoph; Behrens, Bernd-Arno; Maier, Hans Jürgen	Casting Manufacturing of Cylindrical Preforms Made of Low Alloy Steels	Demler, Eugen	09:00 - 10:00	14:00 - 15:00	09:00 - 10:00	14:00 - 15:00

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<b>MS06 LASER MATERIAL FORMING</b>							
436	Starman, Bojan; Hallberg, Håkan; Wallin, Mathias; Ristinmaa, Matti; Mole, Nikolaj; Halilović, Miroslav	Modelling of the mechanical response in 304 austenitic steel during laser shock peening and conventional shot peening	Halilović, Miroslav	09:00 - 10:00	14:00 - 15:00	09:00 - 10:00	14:00 - 15:00



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<b>MS07 MACHINING AND CUTTING</b>							
193	Kugalur Palanisamy, Nithyaraaj; Arrazola Arriola, Pedro José; Riviere Lorphevre, Edouard; Ducobu, François	Influence of the Choice of the Parameters on Constitutive Models and their Effects on the Results of Ti6Al4V Orthogonal Cutting Simulation.	Kugalur Palanisamy, Nithyaraaj	09:00 - 10:00	14:00 - 15:00	09:00 - 10:00	14:00 - 15:00
200	Tamura, Shoichi; Matsumura, Takashi	Cutting Force Simulation in Milling of Tapered Wall with Barrel End Mill	Tamura, Shoichi	10:00 - 11:00	15:00 - 16:00	10:00 - 11:00	15:00 - 16:00
213	Abeni, Andrea; Metelli, Alessandro; Allegri, Gabriele; Attanasio, Aldo	Process parameters optimization in micromilling of watch mechanism features	Abeni, Andrea	11:00 - 12:00	14:00 - 15:00	11:00 - 12:00	16:00 - 17:00
228	Iturgaiz Ibañez, Aratz; Arrazola, Pedro Jose; Bonde Ørskov, Klaus	Workpiece Material Influence On Stability Lobe Diagram	Arrazola, Pedro Jose	13:00 - 14:00	15:00 - 16:00	13:00 - 14:00	17:00 - 18:00
254	Rinaldi, Sergio; Umbrello, Domenico; Rotella, Giovanna; Del Prete, Antonio	A physically based model to predict microstructural modifications in Inconel 718 high speed machining	Rinaldi, Sergio	09:00 - 10:00	14:00 - 15:00	09:00 - 10:00	14:00 - 15:00
267	Rotella, Giovanna; Sanguedolce, Michela; Saffioti, Maria Rosaria; Filice, Luigino; Testa, Flaviano	Strategies for shaping of different ceramic foams	Rotella, Giovanna	10:00 - 11:00	15:00 - 16:00	10:00 - 11:00	15:00 - 16:00
327	Baion, Paweł; Rejman, Edward; Świątoniowski, Andrzej; Kielbasa, Bartłomiej; Smusz, Robert; Szostak, Janusz; Cieślík, Jacek; Kowalski, Łukasz	Thin-walled integral constructions in aircraft industry	Cieślík, Jack	11:00 - 12:00	14:00 - 15:00	11:00 - 12:00	16:00 - 17:00
328	Lizzul, Lucia; Bertolini, Rachele; Ghiotti, Andrea; Bruschi, Stefania	Effect of AM-induced Anisotropy on the Surface Integrity of Laser Powder Bed Fused Ti6Al4V Machined Parts	Lizzul, Lucia	13:00 - 14:00	15:00 - 16:00	13:00 - 14:00	17:00 - 18:00
329	Courbon, Cedric; Sterle, Luka; Cici, Mehmet; Pusavec, Franci	Tribological effect of lubricated liquid carbon dioxide on TiAl6V4 and AISI1045 under extreme contact conditions	Courbon, Cedric	09:00 - 10:00	14:00 - 15:00	09:00 - 10:00	14:00 - 15:00
337	Amaro, Paulo; Ferreira, Pedro; Simões, Fernando	Comparative Analysis of Different Cutting Milling Strategies Applied in Duplex Stainless Steel	Ferreira, Pedro	10:00 - 11:00	15:00 - 16:00	10:00 - 11:00	15:00 - 16:00
388	Careri, Francesco; Imbrogno, Stano; Attallah, Moataz; Essa, Khamis; Umbrello, Domenico	Finite Element Modeling of Machining Nickel Superalloy Produced By Direct Energy Deposition Process	Careri, Francesco	11:00 - 12:00	14:00 - 15:00	11:00 - 12:00	16:00 - 17:00
406	Chaabani, Sana; Arrazola, Pedro José; Ayed, Yessine; Madariaga, Aitor; Tidu, Albert; Germain, Guenael	Surface Integrity When Machining Inconel 718 Using Conventional Lubrication and Carbon Dioxide Coolant	Chaabani, Sana	13:00 - 14:00	15:00 - 16:00	13:00 - 14:00	17:00 - 18:00

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<b>MS08A COOPERATIVE PROJECTS AND INITIATIVES / Workshop A: Tribology in Sheet Metal Forming Processes</b>							
127	Waanders, Daan; Marangalou, Javad Hazrati; Kott, Matthäus; Gastebois, Sabrina; Johan Hoi, Johan	Temperature Dependent Friction Modelling: The Influence Of Temperature On Product Quality	Waanders, Daan	09:00 - 10:00	14:00 - 15:00	09:00 - 10:00	14:00 - 15:00
141	Atzema, Eisso; Mulder, Hans	Temperature Dependence of Steel Constitutive Behavior: a Simplified Model.	Atzema, Eisso Hendrik	10:00 - 11:00	15:00 - 16:00	10:00 - 11:00	15:00 - 16:00
165	Heingärtner, Jörg; Veldhuis, Mark; Kott, Matthäus; Hora, Pavel	Process Control of Forming Processes to Compensate Temperature Induced Friction Changes	Heingärtner, Jörg	11:00 - 12:00	14:00 - 15:00	11:00 - 12:00	16:00 - 17:00
168	Kott, Matthäus; Erz, Christian; Heingärtner, Jörg; Groche, Peter	Controllability of Temperature Induced Friction Effects during Deep Drawing of Car Body Parts with High Drawing Depths in Series Production	Kott, Matthäus	13:00 - 14:00	15:00 - 16:00	13:00 - 14:00	17:00 - 18:00
169	Hettich, Daniel; Aha, Bernd; Zimmermann, Rolf; Veldhuis, Mark; Filzek, Jan	Lubricant-Reducing Scrap Rates in Forming High-Alloyed Steel by Stable Friction Behavior over the Temperature	Hettich, Daniel	09:00 - 10:00	14:00 - 15:00	09:00 - 10:00	14:00 - 15:00
173	Aha, Bernd; Hettich, Daniel; Merkle, Christoph; Zimmermann, Rolf; Filzek, Jan	Advantage in Friction Control in the Automotive Press Shop by Prelube 2nd Generation	Aha, Bernd	10:00 - 11:00	15:00 - 16:00	10:00 - 11:00	15:00 - 16:00
190	Krairi, Anouar; Marmi, Jali; Gastebois, Sabrina; Veldhuis, Mark; Kott, Matthäus	A Speed-up Method for Numerical Simulations of Multi-strokes Cold Metallic Sheet Forming Processes	Gastebois, Sabrina & Krairi, Anouar	11:00 - 12:00	14:00 - 15:00	11:00 - 12:00	16:00 - 17:00
202	Veldhuis, Mark; Heingärtner, Jörg; Krairi, Anouar; Waanders, Daan; Hazrati, Javad	An Industrial-Scale Cold Forming Process Highly Sensitive to Temperature Induced Frictional Start-up Effects to Validate a Physical Based Friction Model	Veldhuis, Mark	13:00 - 14:00	15:00 - 16:00	13:00 - 14:00	17:00 - 18:00
252	Shisode, Meghshyam Prabhakar; Hazrati, Javad; Mishra, Tanmaya; de Rooij, Matthijn; van den Boogaard, Ton	Modeling Mixed Lubrication Friction for Sheet Metal Forming Applications	Shisode, Meghshyam	09:00 - 10:00	14:00 - 15:00	09:00 - 10:00	14:00 - 15:00
285	Sáenz de Argandoña, Eneko; Zabala, Alaitz; Galdos, Lander; Mendiguren, Joseba	The Effect of Material Surface Roughness in Aluminum Forming	Sáenz de Argandoña, Eneko	10:00 - 11:00	15:00 - 16:00	10:00 - 11:00	15:00 - 16:00
310	Venema, Jenny; Atzema, Eisso; Hazrati, Javad; Matthews, David; van den Boogaard, Ton	Modelling of Friction in Hot Stamping	Venema, Jenny	11:00 - 12:00	14:00 - 15:00	11:00 - 12:00	16:00 - 17:00
331	Zaman, Shakil Bin; Hazrati, Javad; Rooij, Matthijn de; Boogaard, Ton van den	Cracking Behavior of Coating during Hot Tensile Tests of AlSi-Coated Press Hardening Steel	Zaman, Shakil Bin	13:00 - 14:00	15:00 - 16:00	13:00 - 14:00	17:00 - 18:00

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<b>MS08B COOPERATIVE PROJECTS AND INITIATIVES / Workshop B: Artificial Intelligence in Manufacturing</b>							
113	Jäckel, Mathias; Falk, Tobias; Georgi, Julius; Drossel, Welf-Guntram	Numerical Simulation for the Application of Machine Learning Prognosis Algorithms	Jäckel, Mathias	09:00 - 10:00	14:00 - 15:00	09:00 - 10:00	14:00 - 15:00
324	Eissing, Katharina; Heinrichsdorff, Frank; Kastsian, Darya; Reznik, Daniel; Fergani, Omar	Multi-Scale Thermal Simulation of a SLM Process Leveraging Machine Learning	Fergani, Omar	10:00 - 11:00	15:00 - 16:00	10:00 - 11:00	15:00 - 16:00
355	Bock, Frederic Eberhard; Blaga, Lucian Attila; Klusemann, Benjamin	Mechanical Performance Prediction for Friction Riveting Joints of Dissimilar Materials via Machine Learning	Bock, Frederic E.	11:00 - 12:00	14:00 - 15:00	11:00 - 12:00	16:00 - 17:00
442	Fergani, Omar	AM Monitor, a machine learning based monitoring system to accelerate the qualification of powder bed fusion produced components	Fergani, Omar	13:00 - 14:00	15:00 - 16:00	13:00 - 14:00	17:00 - 18:00
443	Fergani, Omar	How machine learning is accelerating the innovation on NX CAD tools	Fergani, Omar	09:00 - 10:00	14:00 - 15:00	09:00 - 10:00	14:00 - 15:00
434	Witte, Heiko	Artificial Intelligence and Data Analytics in Manufacturing and Assembly- Use Cases and Opportunities in the Aerospace Industry	Witte, Heiko	10:00 - 11:00	15:00 - 16:00	10:00 - 11:00	15:00 - 16:00

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<b>MS08C COOPERATIVE PROJECTS AND INITIATIVES / Workshop C: Damage-controlled forming (DFG TRR 188)</b>							
186	Clausmeyer, Till; Gutknecht, Florian; Gerstein, Gregory; Nürnberger, Florian	Testing of Formed Gear Wheels at Quasi-Static and Elevated Strain Rates	Clausmeyer, Till	09:00 - 10:00	14:00 - 15:00	09:00 - 10:00	14:00 - 15:00
339	Pütz, Felix; Henrich, Manuel; Roth, Andreas; Könemann, Markus; Münstermann, Sebastian	Reconstruction of Microstructural and Morphological Parameters for RVE Simulations with Machine Learning	Henrich, Manuel	10:00 - 11:00	15:00 - 16:00	10:00 - 11:00	15:00 - 16:00
343	Nick, Matthias; Feuerhack, Andreas; Bergs, Thomas; Clausmeyer, Till	Numerical Investigation of Damage in Single-step, Two-step, and Reverse Deep Drawing of Rotationally Symmetric Cups from DP800 Dual Phase Steel	Nick, Matthias	11:00 - 12:00	14:00 - 15:00	11:00 - 12:00	16:00 - 17:00
379	Li, Xinyang; Wang, Shuhan; Lohmar, Johannes; Hirt, Gerhard	Design of Caliber Rolls Incorporating Load Path Dependent Damage Evolution	Li, Xinyang	13:00 - 14:00	15:00 - 16:00	13:00 - 14:00	17:00 - 18:00
438	Clausmeyer, Till; Schowjak, Alexander; Wang, Shuhan; Gitschel, Robin; Hering, Oliver; Pavliuchenko, Pavlo; Lohmar, Johannes; Ostwald, Richard; Hirt, Gerhard; Tekkaya, A. Erman	Prediction of Ductile Damage in the Process Chain of Caliber Rolling and Forward Rod Extrusion	Gitschel, Robin	09:00 - 10:00	14:00 - 15:00	09:00 - 10:00	14:00 - 15:00

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<b>MS09 NEW AND ADVANCED NUMERICAL STRATEGIES FOR MATERIAL FORMING</b>							
120	Jalouli, Zahra; Ammar, Amine; Caillaud, Aude; Artozoul, Julien	Modeling of Shrinkage Formation During Cooling Used the Phase Field Method	Jalouli, Zahra	09:00 - 10:00	14:00 - 15:00	09:00 - 10:00	14:00 - 15:00
162	Pawar, Sagar Hanamant; Kore, Sachin Dnyandeo; Nandy, Arup	FE Analysis of Effect of Variation in Coil length and Coil-Tube Relative Positions on Establishment of Magnetic Fields and Distribution of Velocities in Electromagnetic Forming of Muffler Tube	Pawar, Sagar Hanamant	10:00 - 11:00	15:00 - 16:00	10:00 - 11:00	15:00 - 16:00
181	Thomas, Peret; Yves, Le Guennec	Pocketing Design of Stamped Metal Sheet Using Reduced Order Modelling	Le Guennec, Yves	11:00 - 12:00	14:00 - 15:00	11:00 - 12:00	16:00 - 17:00
189	Kumar, Deepak; Pawar, Sagar; Kore, Sachin D.; Nandy, Arup	Comparison of Coupled and Non-Coupled Finite Element Models for Joining of Cu-SS Tubes by Electromagnetic Forming	Kumar, Deepak	13:00 - 14:00	15:00 - 16:00	13:00 - 14:00	17:00 - 18:00
291	Wirth, Felix; Nguyen, Chien; Hofmann, Janna; Fleischer, Jürgen	Characterization of Rectangular Copper Wire Forming Properties and Derivation of Control Concepts for the Kinematic Bending of Hairpin Coils	Wirth, Felix	09:00 - 10:00	14:00 - 15:00	09:00 - 10:00	14:00 - 15:00
302	Tran, Hoang Son; Castiaux, Etienne; Habraken, Anne-Marie	Thermal Analysis of Solidifying Steel Shell in Continuous Casting Process	Habraken, Anne-Marie	10:00 - 11:00	15:00 - 16:00	10:00 - 11:00	15:00 - 16:00
305	González, David; Chinesta, Francisco; Cueto, Elias	Scientific Machine Learning for Coarse-Grained Constitutive Models	Cueto, Elias	11:00 - 12:00	14:00 - 15:00	11:00 - 12:00	16:00 - 17:00
311	Quaranta, Giacomo; Ziane, Mustapha; Masqué Barri, Simó; Terres Aboitiz, Carlos; Chambard, Anne; Duval, Jean Louis; Cueto, Elias; Chinesta, Francisco	From Component Reduced Models to Reduced Modelling of Multi-Component Systems	Quaranta, Giacomo	13:00 - 14:00	15:00 - 16:00	13:00 - 14:00	17:00 - 18:00
314	Thomas, Anoop Ebey; Guevelou, Simon; Di Pasquale, Edmondo; Chambard, Anne; Duval, Jean-Louis; Chinesta, Francisco; Limousin, Victor; Delgerie, Xavier; Leroy, Emmanuel	Shape Parametrization & Morphing in Sheet-Metal Forming	Thomas, Anoop Ebey	09:00 - 10:00	14:00 - 15:00	09:00 - 10:00	14:00 - 15:00
325	Hart-Rawung, Thawin; Buhl, Johannes; Bambach, Markus	A Fast Approach for Optimization of Hot Stamping Based on Machine Learning of Phase Transformation Kinetics	Hart-Rawung, Thawin	10:00 - 11:00	15:00 - 16:00	10:00 - 11:00	15:00 - 16:00
370	Böhm, Christoph; Kruse, Jens; Stonis, Malte; Aldakheel, Fadi; Wriggers, Peter	Virtual Element Method for Cross-Wedge Rolling during Tailored Forming Processes	Böhm, Christoph	11:00 - 12:00	14:00 - 15:00	11:00 - 12:00	16:00 - 17:00

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<b>MS10 NON-CONVENTIONAL PROCESSES</b>							
107	Döbbberthin, Christin; Müller, Rico; Meichsner, Gunnar; Welzel, Florian; Hackert-Oschätzchen, Matthias	Experimental Analysis of the Shape Accuracy in Electrochemical Polishing of Femoral Heads for Hip Endoprosthesis	Döbbberthin, Christin	09:00 - 10:00	14:00 - 15:00	09:00 - 10:00	14:00 - 15:00
119	Schulze, Hans-Peter; Herzig, Mathias; Kröning, Oliver	Special Features of Electrical Hybrid Machining Processes from the Point of View of Optimization	Schulze, Hans-Peter	10:00 - 11:00	15:00 - 16:00	10:00 - 11:00	15:00 - 16:00
139	Berger, Thomas; Parczyk, Peter; Gläser, Markus; Martin, André; Schröder, Matthias; Schubert, Andreas; Scharff, Wolfram	Design of a Machine-integrated Optical Measuring System for Electrode Positioning for Electro-Thermal Precision Ablation	Berger, Thomas	11:00 - 12:00	14:00 - 15:00	11:00 - 12:00	16:00 - 17:00
185	Boccarusso, Luca; Durante, Massimo; Iucolano, Fabio; Langella, Antonio; Memola Capece Minutolo, Fabrizio; Mocerino, Davide	Recyclability Process of Standard and Foamed Gypsum	Boccarusso, Luca	13:00 - 14:00	15:00 - 16:00	13:00 - 14:00	17:00 - 18:00
238	Formisano, Antonio; Viscusi, Antonio; Durante, Massimo; Carrino, Luigi; De Fazio, Dario; Langella, Antonio	Experimental Investigations on Bending Collapse Modes of Innovative Sandwich Panels with Metallic Foam Core	Formisano, Antonio	09:00 - 10:00	14:00 - 15:00	09:00 - 10:00	14:00 - 15:00
243	Czotscher, Tobias; von Hehl, Axel; Radel, Tim; Toenjes, Anastasiya	Correlation between Shock Wave-induced Indentations and Tensile Strength	Czotscher, Tobias	10:00 - 11:00	15:00 - 16:00	10:00 - 11:00	15:00 - 16:00
247	Viscusi, Antonio; Durante, Massimo; Astarita, Antonello; Boccarusso, Luca; Carrino, Luigi; Perna, Alessia Serena	Experimental Evaluation of Metallic Coating on Polymer by Cold Spray	Viscusi, Antonio	11:00 - 12:00	14:00 - 15:00	11:00 - 12:00	16:00 - 17:00
276	Ha, Taekwang; Ma, Jun; Blindheim, Jørgen; Welo, Torgeir; Ringen, Geir; Wang, Jyhwen	In-line Springback Measurement for Tube Bending Using a Laser System	Ha, Taekwang	13:00 - 14:00	15:00 - 16:00	13:00 - 14:00	17:00 - 18:00
283	Ma, Jun; Ha, Taekwang; Blindheim, Jørgen; Welo, Torgeir; Ringen, Geir; Li, Heng	Exploring the Influence of Pre/Post-Aging on Springback in Al-Mg-Si Alloy Tube Bending	Ma, Jun	09:00 - 10:00	14:00 - 15:00	09:00 - 10:00	14:00 - 15:00
332	Radovanovic, Miroslav	Multi-Objective Optimization of Abrasive Water Jet Cutting Process Using MOGA	Radovanovic, Miroslav Radivoje	10:00 - 11:00	15:00 - 16:00	10:00 - 11:00	15:00 - 16:00
333	Karmiris-Obratański, Panagiotis; Zagórski, Krzysztof; Cieślak, Jacek; Papazoglou, Emmanouil Lazaros; Markopoulos, Angelos	Surface Topography of Ti 6Al 4V ELI after High Power EDM	Markopoulos, Angelos	11:00 - 12:00	14:00 - 15:00	11:00 - 12:00	16:00 - 17:00
358	Skoczypiec, Sebastian; Bizoń, Wojciech; Podolak-Lejtas, Anna	Selected Aspects of Electrodischarge Milling of Aluminum Alloy-Based Metal Matrix Composite with SiC Reinforcement	Skoczypiec, Sebastian & Bizoń, Wojciech	13:00 - 14:00	15:00 - 16:00	13:00 - 14:00	14:00 - 15:00
378	Iorio, Leandro; Bellisario, Denise; Papa, Claudia; Santo, Loredana; Quadri, Fabrizio	Cold Compression Molding of Pyrolytic Carbon from Tires for Oil Absorbers	Iorio, Leandro	09:00 - 10:00	14:00 - 15:00	09:00 - 10:00	15:00 - 16:00
399	Coteață, Margareta; Bancescu Besliu, Irina; Slatineanu, Laurentiu	Tungsten Copper Composite Machinability by Electrical Discharge Machining	Coteață, Margareta	10:00 - 11:00	15:00 - 16:00	10:00 - 11:00	16:00 - 17:00
418	Luțcanu, Marian; Cimpoeșu, Nicanor; Istrate, Bogdan; Coteață, Margareta; Manole, Vasile; Știrbu, Ionuț; Dimitriu, Florin	Analyze of Cutting Effect on Industrial Ceramic Layers	Lutcanu, Marian	11:00 - 12:00	14:00 - 15:00	11:00 - 12:00	17:00 - 18:00

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<b>MS11 OPTIMIZATION AND INVERSE ANALYSIS IN FORMING</b>							
132	Fu, Jiawei; Xie, Wenwei; Qi, Lehua	An Identification Method for Anisotropic Plastic Constitutive Parameters of Sheet Metals	Fu, Jiawei	09:00 - 10:00	14:00 - 15:00	09:00 - 10:00	14:00 - 15:00
157	Almeida, Filipe; Barroqueiro, Bruno; Dias-de-Oliveira, João; Andrade-Campos, António Gil	On the Development of a Heterogeneous Mechanical Test Specimen Using Topology Optimization	Andrade-Campos, António Gil	10:00 - 11:00	15:00 - 16:00	10:00 - 11:00	15:00 - 16:00
163	Vuppala, Aditya; Krämer, Alexander; Braun, Alexander; Lohmar, Johannes; Hirt, Gerhard	A New Inverse Explicit Flow Curve Determination Method for Compression Tests	Vuppala, Aditya Shiv Kanth	11:00 - 12:00	14:00 - 15:00	11:00 - 12:00	16:00 - 17:00
184	Guimarães Oliveira, Miguel; Thuillier, Sandrine; Andrade-Campos, António	Analysis of Heterogeneous Tests for Sheet Metal Mechanical Behavior	Guimarães de Oliveira, Miguel Jorge	13:00 - 14:00	15:00 - 16:00	13:00 - 14:00	17:00 - 18:00
199	Bhardwaj, Nitish; Narayanan, Ramabadrán Ganesh; Dixit, Uday Shanker; Petrov, Mikhail; Petrov, Pavel	An Inverse Approach Towards Determination of Friction in Friction Stir Spot Welding	Bhardwaj, Nitish	09:00 - 10:00	14:00 - 15:00	09:00 - 10:00	14:00 - 15:00
203	Zimmerling, Clemens; Poppe, Christian; Kärger, Luise	Estimating Optimum Process Parameters in Textile Draping of Variable Part Geometries - A Reinforcement Learning Approach	Zimmerling, Clemens	10:00 - 11:00	15:00 - 16:00	10:00 - 11:00	15:00 - 16:00
216	Coelho, B.; Martins, J. M. P.; Xavier, J.; Andrade-Campos, A.	Parameter identification in sheet metal forming using combinations of inverse methods and optimisation strategies	Martins, J. M. P.	11:00 - 12:00	14:00 - 15:00	11:00 - 12:00	16:00 - 17:00
219	Essig, Peter; Liewald, Mathias; Bolay, Christian	Contact Area Evaluation of Digitalized Spotting Images as a Criterion for Die Tryout	Essig, Peter	13:00 - 14:00	15:00 - 16:00	13:00 - 14:00	17:00 - 18:00
220	Burkart, Maximilian; Liewald, Mathias; Wied, Johannes; Todzy, Tobias; Hartmann, Markus; Müller, Maximilian	Optimization of a Part Holder Design Considering Dynamic Loads during Return Stroke of Tool and Ram	Burkart, Maximilian Walter	09:00 - 10:00	14:00 - 15:00	09:00 - 10:00	14:00 - 15:00
239	Yang, Huachao; Zhang, Wen; Zhuang, Xincun; Zhao, Zhen	Calibration of Chaboche Combined Hardening Model for Large Strain Range	Yang, Huachao	10:00 - 11:00	15:00 - 16:00	10:00 - 11:00	15:00 - 16:00
256	Caspari, Michael; Landkammer, Philipp; Steinmann, Paul	Shape Optimization of a Backward Extrusion Process Using a Non-Invasive Form Finding Algorithm	Caspari, Michael	11:00 - 12:00	14:00 - 15:00	11:00 - 12:00	16:00 - 17:00
262	Martins, João Peixoto; Andrade-Campos, António; Thuillier, Sandrine	Calibration of Johnson-Cook Model Using Heterogeneous Thermo-Mechanical Tests	Martins, João	13:00 - 14:00	15:00 - 16:00	13:00 - 14:00	17:00 - 18:00
338	Soriani, Anna; Gemignani, Roberto; Strano, Matteo	A Metamodel for the Management of Large Databases: Toward Industry 4.0 in Metal Forming	Strano, Matteo	09:00 - 10:00	14:00 - 15:00	09:00 - 10:00	14:00 - 15:00
345	Togobytska, Nataliya; Hömberg, Dietmar	Optimal control of cooling line for hot-rolled dual phase steels	Togobytska, Nataliya	10:00 - 11:00	15:00 - 16:00	10:00 - 11:00	15:00 - 16:00
397	Oliveira, Marta C.; Germain, Lisa; Laurent, Hervé; Simões, Vasco M.; Neto, Diogo M.; Alves, José L.; Menezes, Luís F.	A Modified Hockett-Sherby Law Enabling the Description of the Thermomechanical Behaviour of the AA6061-T6	Oliveira, Marta C.	11:00 - 12:00	14:00 - 15:00	11:00 - 12:00	16:00 - 17:00
402	Rossi, Marco; Lattanzi, Attilio; Piccininni, Antonio; Guglielmi, Pasquale; Palumbo, Gianfranco	Study of Tailor Heat Treated Blanks Using the Fourier-series-based VFM	Rossi, Marco	13:00 - 14:00	15:00 - 16:00	13:00 - 14:00	17:00 - 18:00
425	Lava, Pascal; Pierron, Fabrice	The "Underestimated" Unseen in Digital Image Correlation: Metrological Aspects in Material Identification and Full-field Model Validation	Lava, Pascal	09:00 - 10:00	14:00 - 15:00	09:00 - 10:00	14:00 - 15:00

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<b>MS12 POLYMER PROCESSING AND THERMOMECHANICAL PROPERTIES</b>							
137	Spina, Roberto; Cavalcante, Bruno	Thermal analysis of PA66 Grinding	de Melo Cavalcante, Bruno Ricardo	09:00 - 10:00	14:00 - 15:00	09:00 - 10:00	14:00 - 15:00
142	Spina, Roberto; Cavalcante, Bruno	Preliminary analysis of extruded PP filaments for FFF	Spina, Roberto	10:00 - 11:00	15:00 - 16:00	10:00 - 11:00	15:00 - 16:00
147	Nasonov, Yaroslav; Safonov, Alexander; Gusev, Sergey; Akhatov, Iskander	Effect of Additives on Cure Kinetics of Pultrusion Resins	Nasonov, Yaroslav Alekseevich	11:00 - 12:00	14:00 - 15:00	11:00 - 12:00	16:00 - 17:00
171	Avenet, Julien; Cender, Thomas A.; Le Corre, Steven; Bailleul, Jean-Luc; Levy, Arthur	Adhesion of High Temperature Thermoplastic Composites	Avenet, Julien	13:00 - 14:00	15:00 - 16:00	13:00 - 14:00	17:00 - 18:00
207	Ghosh Dastidar, Aniket; Ayadi, Abderrahmane; Lacrampe, Marie-France	Reliability of Hybrid Inverse Identification Based on Stereo-DIC Measurements to Assess HIPS Hyperelastic Parameters: Case Of Isothermal Tensile Loads	Ghosh Dastidar, Aniket	09:00 - 10:00	14:00 - 15:00	09:00 - 10:00	14:00 - 15:00
227	Köhler, Daniel; Gröger, Benjamin; Kupfer, Robert; Hornig, Andreas; Gude, Maik	Experimental and Numerical Studies on the Deformation of a Flexible Wire in an Injection Moulding Process	Köhler, Daniel	10:00 - 11:00	15:00 - 16:00	10:00 - 11:00	15:00 - 16:00
260	Lepoivre, Arthur; Boyard, Nicolas; Levy, Arthur; Sobotka, Vincent	Heat Transfer and Adhesion Study for the FFF Additive Manufacturing Process	Lepoivre, Arthur	11:00 - 12:00	14:00 - 15:00	11:00 - 12:00	16:00 - 17:00
282	Strauß, Sebastian	Development of a flexible injection and impregnation chamber for pultrusion of high reactive resins	Strauß, Sebastian	13:00 - 14:00	15:00 - 16:00	13:00 - 14:00	17:00 - 18:00
293	Chabert, France; Garnier, Christian; Sangleboeuf, Jules; Akue Asseko, André Chateau; Cosson, Benoît	Transmission laser welding of polyamides: effect of process parameters and material properties on the weld strength	Chabert, France	09:00 - 10:00	14:00 - 15:00	09:00 - 10:00	14:00 - 15:00
346	Hassani, Farzaneh; J. Martin, Peter; Falzon, Brian	Strain Rate Dependent Behaviour of Self-reinforced Polypropylene Composites and their Hybrids	Hassani, Farzaneh	10:00 - 11:00	15:00 - 16:00	10:00 - 11:00	15:00 - 16:00
371	Motas, Justina Georgiana; Quadrini, Fabrizio; Nedelcu, Dumitru	Silver Nano-Coating of Liquid Wood for Nanocomposite Manufacturing	Motas, Justina Georgiana	11:00 - 12:00	14:00 - 15:00	11:00 - 12:00	16:00 - 17:00
376	Castellanos, David; Martin, Peter; Butterfield, Joseph; McCourt, Mark; Kearns, Mark; Cassidy, Patrick	Sintering and Densification of Fibre Reinforcement in Polymers during Rotational Moulding	Castellanos, David	13:00 - 14:00	15:00 - 16:00	13:00 - 14:00	17:00 - 18:00
377	Seregar, Jitendra; McCourt, Mark; Kearns, Mark; Martin, Peter; Menary, Gary	Simulation of shrinkage and warpage of rotationally moulded polymer parts	Seregar, Jitendra	09:00 - 10:00	14:00 - 15:00	09:00 - 10:00	14:00 - 15:00
384	Pritchard, Alex; McCourt, Mark; Kearns, Mark; Martin, Peter; Cunningham, Eoin	Process and Material Parameter Optimisation of Rotomoulded Polymer Foams	Pritchard, Alex	10:00 - 11:00	15:00 - 16:00	10:00 - 11:00	15:00 - 16:00
428	Wilk, Joanna; Balon, Pawel; Smusz, Robert; Rejman, Edward; Świątoniowski, Andrzej; Kielbasa, Bartłomiej; Szostak, Janusz; Ciešlik, Jacek; Kowalski, Łukasz	Thermal Stratification in the Storage Tank	Szostak, Janusz	11:00 - 12:00	14:00 - 15:00	11:00 - 12:00	16:00 - 17:00



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<b>MS13 SEMI-SOLID PROCESSES</b>							
166	Schomer, Laura; Liewald, Mathias	Design of Semi-Solid Forming Tools for Producing Metal-Ceramic Interpenetrating Phase Composites	Schomer, Laura	09:00 - 10:00	14:00 - 15:00	09:00 - 10:00	14:00 - 15:00
366	de Lima Lessa, Cleber Rodrigo; Landell, Renan Mensch; Bergmann, Luciano; dos Santos, Jorge Fernandez; Kwietniewski, Carlos Eduardo Fortis; Reguly, Afonso; Klusemann, Benjamin	Two-Pass Friction Stir Welding of Clad API X65	de Lima Lessa, Cleber Rodrigo	10:00 - 11:00	15:00 - 16:00	10:00 - 11:00	15:00 - 16:00

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<b>MS14 ADDITIVE MANUFACTURING</b>							
117	Uhlmann, Eckart; Saber, Yassin	Conceptualization Of A Measurement Procedure For Determination Of Characteristic Properties Of SLM Produced Parts By Means Of Computed Tomography	Saber, Yassin	09:00 - 10:00	14:00 - 15:00	09:00 - 10:00	14:00 - 15:00
133	Hama-Saleh, Rebar; Weisheit, Andreas; Schleifenbaum, Johannes Henrich; Ünsal, Ismail; Sviridov, Alexander; Bambach, Markus	Formability Analysis of Micro-Alloyed Sheet Metals Reinforced by Additive Manufacturing	Hama-Saleh, Rebar	10:00 - 11:00	15:00 - 16:00	10:00 - 11:00	15:00 - 16:00
135	Colpani, Alessandro; Fiorentino, Antonio; Ceretti, Elisabetta	Design and Fabrication of Customized Tracheal Stents by Additive Manufacturing	Fiorentino, Antonio	11:00 - 12:00	14:00 - 15:00	11:00 - 12:00	16:00 - 17:00
151	Spitaels, Laurent; Ducobu, François; Demarbaix, Anthonin; Riviere-Lorpevre, Edouard; Dehombreux, Pierre	Influence of conventional machining on chemical finishing of Ti6Al4V Electron Beam Melting parts	Spitaels, Laurent	13:00 - 14:00	15:00 - 16:00	13:00 - 14:00	17:00 - 18:00
158	El Hassanin, Andrea; Troiano, Maurizio; Scherillo, Fabio; Silvestri, Alessia Teresa; Contaldi, Vincenzo; Solimene, Roberto; Scala, Fabrizio; Squillace, Antonino; Salatino, Piero	Rotation-assisted Abrasive Fluidised Bed Machining of AISi10Mg parts made through Selective Laser Melting Technology	El Hassanin, Andrea	09:00 - 10:00	14:00 - 15:00	09:00 - 10:00	14:00 - 15:00
188	Ünal-Saewe, Talu; Gahn, Lukas; Kittel, Jochen; Gasser, Andres; Schleifenbaum, Johannes Henrich	Process Development for Tip Repair of complex shaped turbine blades with IN718	Ünal-Saewe, Talu	10:00 - 11:00	15:00 - 16:00	10:00 - 11:00	15:00 - 16:00
194	Silvestri, Alessia Teresa; Astarita, Antonello; El Hassanin, Andrea; Manzo, Alessandro; Iannuzzo, Ubaldo; Iannuzzo, Generoso; De Rosa, Vincenzo; Acerra, Francesco; Squillace, Antonino	Assessment of the Mechanical Properties of AISi10Mg Parts Produced through Selective Laser Melting Under Different Conditions	Silvestri, Alessia Teresa	11:00 - 12:00	14:00 - 15:00	11:00 - 12:00	16:00 - 17:00
206	Dkier, Mohamed; Barres, Claire; Charneau, Jean-Yves	Processing and characterization of composites based on hybrid thermosets systems	Dkier, Mohamed	13:00 - 14:00	15:00 - 16:00	13:00 - 14:00	17:00 - 18:00
253	Caron, Jean-François; Ducoulombier, Nicolas; Bornert, Michel; Chateau, camille; Demont, Leo	Additive manufacturing of Anisotropic Concrete: a Flow-based pultrusion of continuous fibers in a cementitious matrix	Ducoulombier, Nicolas	09:00 - 10:00	14:00 - 15:00	09:00 - 10:00	14:00 - 15:00
257	Bruni, Carlo; Mancia, Tommaso; Greco, Luciano; PIERALISI, Massimiliano	Additive manufacturing using UV polymerization of complex surfaces generated by two main B-splines	Bruni, Carlo	10:00 - 11:00	15:00 - 16:00	10:00 - 11:00	15:00 - 16:00
268	Rubino, Felice; Tucci, Fausto; Esperto, Vitantonio; Perna, Alessia Serena; Astarita, Antonello; Carlone, Pierpaolo; Squillace, Antonino	Metallization of Fiber Reinforced Composite by Surface Functionalization and Cold Spray Deposition	Rubino, Felice	11:00 - 12:00	14:00 - 15:00	11:00 - 12:00	16:00 - 17:00
271	Mertens, Anne Isabelle; Delahaye, Jocelyn; Dedry, Olivier; Vertruyen, Bénédicte; Tchuingjang, Jérôme; Habraken, Anne	Microstructure and Properties of SLM AISi10Mg: Understanding the Influence of the Local Thermal history	Mertens, Anne Isabelle	13:00 - 14:00	15:00 - 16:00	13:00 - 14:00	17:00 - 18:00
272	Forcelllese, Archimede; Di Pompeo, Valerio; Simoncini, Michela; Vita, Alessio	Manufacturing of Isogrid Composite Structures by 3D Printing	Simoncini, Michela	09:00 - 10:00	14:00 - 15:00	09:00 - 10:00	14:00 - 15:00
278	Kutsukake, Asuka; Yoshida, Yoshinori	Influence of Surface Asperity Made by Selective Laser Melting Additive Manufacturing on Bioactivity in Rat Femur	Kutsukake, Asuka	10:00 - 11:00	15:00 - 16:00	10:00 - 11:00	15:00 - 16:00
306	Ginestra, Paola; Ceretti, Elisabetta; Lobo, David; Lowther, Morgan; Cruchley, Sam; Kuehne, Sarah; Villapun, Victor; Cox, Sophie; Grover, Liam; Shepherd, Duncan; Attallah, Moataz; Addison, Owen; Webber, Mark	Post processing of 3D printed metal scaffolds: a preliminary study of antimicrobial efficiency	Lobo, David Angelats	11:00 - 12:00	14:00 - 15:00	11:00 - 12:00	16:00 - 17:00
308	Gorji, Nima E.; O'Connor, Robert; Brabazon, Dermot	X-ray Tomography, AFM and Nanoindentation Measurements for Recyclability Analysis of 316L Powders in 3D Printing Process	E. Gorji, Nima	13:00 - 14:00	15:00 - 16:00	13:00 - 14:00	17:00 - 18:00
312	Tomasoni, Daniele; Colosio, Stefano; Giorleo, Luca; Ceretti, Elisabetta	Design for Additive Manufacturing: thermoforming mold optimization via conformal cooling channel technology	Tomasoni, Daniele	09:00 - 10:00	14:00 - 15:00	09:00 - 10:00	14:00 - 15:00
316	Nguyen, Qui Lam; Johannes, Buhl; Bambach, Markus	Multi-bead Overlapping Models for Toolpath Generation in Wire-Arc Additive Manufacturing Processes	Nguyen, Qui Lam	10:00 - 11:00	15:00 - 16:00	10:00 - 11:00	15:00 - 16:00
320	Ünsal, Ismail; Hintler, Markus; Sviridov, Alexander; Bambach, Markus	Material Properties of Features Produced from EN AW 6016 by Wire-Arc Additive Manufacturing	Ünsal, Ismail	11:00 - 12:00	14:00 - 15:00	11:00 - 12:00	16:00 - 17:00
351	Pakdel Sefidi, Moein; Israr, Rameez; Buhl, Johannes; Bambach, Markus	Rule-Based Path Identification for Direct Energy Deposition	Pakdel Sefidi, Moein	13:00 - 14:00	15:00 - 16:00	13:00 - 14:00	17:00 - 18:00

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<b>MS14 ADDITIVE MANUFACTURING</b>							
352	Hirtler, Markus; Jedynek, Angelika; Sydow, Benjamin; Sviridov, Alexander; Bambach, Markus	A Study On The Mechanical Properties Of Hybrid Parts Manufactured By Forging And Wire Arc Additive Manufacturing	Hirtler, Markus	09:00 - 10:00	14:00 - 15:00	09:00 - 10:00	14:00 - 15:00
353	Jedynek, Angelika; Sviridov, Alexander; Bambach, Markus; Beckers, Daniel; Graf, Gregor	On the Potential of Using Selective Laser Melting for the Fast Development of Forging Alloys at the Example of Waspaloy	Jedynek, Angelika	10:00 - 11:00	15:00 - 16:00	10:00 - 11:00	15:00 - 16:00
375	Silze, Frank; Schnick, Michael; Sizova, Irina; Bambach, Markus	Laser Metal Deposition of Ti-6Al-4V with a Direct Diode Laser Set-up and Coaxial Material Feed	Sizova, Irina	11:00 - 12:00	14:00 - 15:00	11:00 - 12:00	16:00 - 17:00
395	Banait, Shruti; Campos, Mónica; Pérez Prado, María Teresa	Manufacturability of Inconel 718 Lattices by Selective Laser Melting	Banait, Shruti	13:00 - 14:00	15:00 - 16:00	13:00 - 14:00	17:00 - 18:00
396	Bambach, Markus; Buhl, Johannes; Fügenschuh, Armin; Jensch, Felix; Schmidt, Johannes	Mathematical Modeling and Optimization for Powder-Based Additive Manufacturing	Fügenschuh, Armin	09:00 - 10:00	14:00 - 15:00	09:00 - 10:00	14:00 - 15:00
398	Colditz, Pascal; Graf, Marcel; Hälsig, André; Härtel, Sebastian; Awiszus, Birgit	Experimental Investigation on the Forming of Additively Manufactured Components with Regard to Forming Behavior and Component Properties	Colditz, Pascal	10:00 - 11:00	15:00 - 16:00	10:00 - 11:00	15:00 - 16:00
404	Marques, Bruno; Andrade, Carlos; Neto, Diogo; Oliveira, Marta; Alves, Jose; Menezes, Luis	Numerical Analysis of Residual Stresses in Parts Produced by Selective Laser Melting Process	Neto, Diogo	11:00 - 12:00	14:00 - 15:00	11:00 - 12:00	16:00 - 17:00
422	Yang, Xinyu; Barrett, Richard A.; Tong, Mingming; Harrison, Noel M.; Leen, Sean B.	Prediction of microstructure evolution for additive manufacturing of Ti-6Al-4V	Yang, Xinyu	13:00 - 14:00	15:00 - 16:00	13:00 - 14:00	17:00 - 18:00
424	Graichen, Andreas; Otte, Clemens; Reitingner, Axel	IC-Paper: Siemens AM Monitor for validating recoating quality in powder bed images	Reitingner, Axel	09:00 - 10:00	14:00 - 15:00	09:00 - 10:00	14:00 - 15:00
426	Lubosch, Danny; Gemse, Felix; Fries, Edgar; Penning, Olaf; Danz, Enrico	Potentials of 3DMP® for toolmaking	Lubosch, Danny	10:00 - 11:00	15:00 - 16:00	10:00 - 11:00	15:00 - 16:00
431	Israr, Rameez; Buhl, Johannes; Bambach, Markus	Numerical analysis of different fixation strategies in direct energy deposition processes	Israr, Rameez	11:00 - 12:00	14:00 - 15:00	11:00 - 12:00	16:00 - 17:00
432	Breuß, Michael; Buhl, Johannes; Mansouri Yarahmadia, Ashkan; Bambach, Markus; Peter, Pascal	A simple approach to stiffness enhancement of a printable shape by Hamilton-Jacobi skeletonization	Mansouri Yarahmadia, Ashkan	13:00 - 14:00	15:00 - 16:00	13:00 - 14:00	17:00 - 18:00
435	Beckers, Daniel; Graf, Gregor	Effiziente Qualifizierungsstrategie für neue Werkstoffe im LPBF-Prozess	Beckers, Daniel	09:00 - 10:00	14:00 - 15:00	09:00 - 10:00	14:00 - 15:00
439	Beccard, Rainer; Bartling, Andreas	Additive manufacturing of 3D structures on 3D parts with LMD	Beccard, Rainer	10:00 - 11:00	15:00 - 16:00	10:00 - 11:00	15:00 - 16:00
446	Witt, Marcus	Mobile additive and subtractive machining solution for fast repair and spare part creation	Witt, Marcus	11:00 - 12:00	14:00 - 15:00	11:00 - 12:00	16:00 - 17:00

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<b>MS15 FORMABILITY OF METALLIC MATERIALS</b>							
125	Hetzel, Andreas; Merklein, Marion; Lechner, Michael	Enhancement Of The Forming Limits For Orbital Formed Tailored Blanks By Local Short-term Heat Treatment	Hetzel, Andreas	09:00 - 10:00	14:00 - 15:00	09:00 - 10:00	14:00 - 15:00
143	Francillette, Henri	Effects of the Interaction Length Between Hollow Shapes : Application to a HCP Metal Under Mechanical Loading	Francillette, Henri	10:00 - 11:00	15:00 - 16:00	10:00 - 11:00	15:00 - 16:00
150	Tamer, Emin; Ozgultekin, Gulfem; Poyraz, Okan; Seyalioglu, Celal	Formability Analyses of a Novel Alloy Cold-rolled Batch Annealed Dual Phase Steel	Tamer, Emin & Poyraz, Okan	11:00 - 12:00	14:00 - 15:00	11:00 - 12:00	16:00 - 17:00
161	Sitko, Mateusz; Mojzeszko, Mateusz; Rychlowski, Lukasz; Cios, Grzegorz; Bala, Piotr; Muszka, Krzysztof; Madej, Lukasz	Numerical Procedure of Three-Dimensional Reconstruction of Ferrite-Pearlite Microstructure Data from SEM/EBSD Serial Sectioning	Mojzeszko, Mateusz	13:00 - 14:00	15:00 - 16:00	13:00 - 14:00	17:00 - 18:00
178	Hetz, Peter; Suttner, Sebastian; Merklein, Marion	Investigation Of The Springback Behaviour Of High-Strength Aluminium Alloys Based On Cross Profile Deep Drawing Tests	Hetz, Peter	09:00 - 10:00	14:00 - 15:00	09:00 - 10:00	14:00 - 15:00
183	Steinert, Philipp; Schaarschmidt, Ingo; Hackert-Oschätzchen, Matthias; Meichsner, Gunnar; Schubert, Andreas; Jungblut, Guido	Experimental Study on Micro Forming of Structured Surfaces for High Static Friction Connection Elements	Steinert, Philipp	10:00 - 11:00	15:00 - 16:00	10:00 - 11:00	15:00 - 16:00
225	Aksen, Toros Arda; Sener, Bora; Firat, Mehmet	Failure Prediction Capability of Generalized Plastic Work Criterion	Aksen, Toros Arda	11:00 - 12:00	14:00 - 15:00	11:00 - 12:00	16:00 - 17:00
235	Goksen, Seckin; Darendeliler, Haluk	The Effect of Strain Rate and Temperature on Forming Limit Diagram for DKP-6112 and AZ31 Materials	Goksen, Seckin	13:00 - 14:00	15:00 - 16:00	13:00 - 14:00	17:00 - 18:00
249	Coppieters, Sam; Jackel, Mathias; Kraus, Christian; Kuwabara, Toshihiko; Barlat, Frederic	Influence of a Hydrostatic Pressure Shift on the Flow Stress in Sheet Metal	Coppieters, Sam	09:00 - 10:00	14:00 - 15:00	09:00 - 10:00	14:00 - 15:00
250	Gothivarekar, Sanjay; Coppieters, Sam; Talemi, Reza; Debruyne, Dimitri	The Influence of Post-Necking Strain Hardening Behaviour on Fatigue Lifetime Prediction of Cold-Formed High Strength Steel.	Gothivarekar, Sanjay	10:00 - 11:00	15:00 - 16:00	10:00 - 11:00	15:00 - 16:00
279	Kwiecień, Marcin; Lisiecki, Łukasz; Lisiecka-Graca, Paulina; Majta, Janusz; Muszka, Krzysztof	Study of Deformation Behavior of Multilayered Sheets Using Digital Image Correlation	Kwiecień, Marcin	11:00 - 12:00	14:00 - 15:00	11:00 - 12:00	16:00 - 17:00
287	Bueno, Maddi; Galdos, Lander; Saenz de Argandoña, Eneko; Weiss, Matthias; Rolfe, Bernard; Lou, Yanshan; Mendiguren, Joseba	Strain rate effect on the fracture behavior of the AA5754 aluminum alloy	Mendiguren, Joseba	13:00 - 14:00	15:00 - 16:00	13:00 - 14:00	17:00 - 18:00
299	Ogasawara, Yu; Hakoyama, Tomoyuki; Kuwabara, Toshihiko; Hayamizu, Hiroaki; Ikeda, Takeshi; Takeda, Hiroki; Barlat, Frédéric	Material modeling in high strain range and forming limit analysis for 6000 series aluminum alloy sheet	Ogasawara, Yu	09:00 - 10:00	14:00 - 15:00	09:00 - 10:00	14:00 - 15:00
301	Nagendra, Abhishek; Steglich, Dirk	Experimental and numerical Bendability Analyses of a 3rd Generation Magnesium Alloy	Steglich, Dirk	10:00 - 11:00	15:00 - 16:00	10:00 - 11:00	15:00 - 16:00
326	Emdadi, Aliakbar; Sizova, Irina; Stryzhyboroda, Oleg; Hecht, Ulrike; Buhl, Johannes; Bambach, Markus	Hot Workability of an Intermetallic Iron Aluminide Alloy Produced by Spark Plasma Sintering Above and Below the Order-disorder Transition Temperature	Emdadi, Aliakbar	11:00 - 12:00	14:00 - 15:00	11:00 - 12:00	16:00 - 17:00
389	Neumann, Andreas; Brykarczyk, Daniel; Lenz, Wolfgang; Bambach, Markus; Pfeifer, Herbert	Using Vault Structure Steels to Improve the Lifetime of Radiant Tubes	Neumann, Andreas	13:00 - 14:00	15:00 - 16:00	13:00 - 14:00	17:00 - 18:00
394	Bressan, José Divo; Liewald, Mathias; Drotleff, Klaus	Predictions of Forming Limit Curves of AA6014 Aluminium Alloy at Room Temperature	Bressan, José Divo	09:00 - 10:00	14:00 - 15:00	09:00 - 10:00	14:00 - 15:00
403	Revil-Baudard, Benoit	Forming of materials with cubic crystal structure	Revil-Baudard, Benoit	10:00 - 11:00	15:00 - 16:00	10:00 - 11:00	15:00 - 16:00
419	Lian, Junhe; Liu, Wenqi; Sparrer, Yannik; Shen, Fuhui; Münstermann, Sebastian	Temperature dependence of plastic flow, anisotropy and ductile fracture	Lian, Junhe	11:00 - 12:00	14:00 - 15:00	11:00 - 12:00	16:00 - 17:00
423	Vorkov, Vitalii; Tomás García, Alberto; Dufloy, Joost R.	Bending parameters in heat assisted air bending of high strength steels	Vorkov, Vitalii	13:00 - 14:00	15:00 - 16:00	13:00 - 14:00	17:00 - 18:00
440	Merten, Mathias; Vogel, Peter; Ilg, Christian; Haufe, Andre	Overview of Different Failure Criteria in LS-DYNA and DYNIFORM 6.0	Merten, Mathias	09:00 - 10:00	14:00 - 15:00	09:00 - 10:00	14:00 - 15:00
445	Müller, Michael; Schwarz, Benjamin	3D Metrology in Sheet Metal Forming Processes	Müller, Michael	10:00 - 11:00	15:00 - 16:00	10:00 - 11:00	15:00 - 16:00

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<b>MS16 INCREMENTAL AND SHEET METAL FORMING</b>							
138	Ben Abdelkader, Wifak; Bahloul, Riadh; Arfa, Henia	Numerical Investigation of the Influence of some Parameters in SPIF Process on the Forming Forces and Thickness Distributions of a Bimetallic Sheet CP-Titanium/Low-carbon Steel Compared to an Individual Layer	Ben Abdelkader, Wifak	09:00 - 10:00	14:00 - 15:00	09:00 - 10:00	14:00 - 15:00
155	Weiser, Ingo Felix; Hild, Rafael; Feuerhack, Andreas; Trauth, Daniel; Bergs, Thomas	Experimental Investigation of Oxide Layer Formation Depending on Temperature Holding Time during Inductive Heating of Annealed 16MnCr5	Weiser, Ingo Felix	10:00 - 11:00	15:00 - 16:00	10:00 - 11:00	15:00 - 16:00
232	Linnemann, Maik; Scheffler, Christian; Psyk, Verena	Numerically Assisted Design For Electromagnetically Driven Tools	Linnemann, Maik	11:00 - 12:00	14:00 - 15:00	11:00 - 12:00	16:00 - 17:00
234	Ishkina, Svetlana; Schenck, Christian; Herrmann, Marius; Kuhfuss, Bernd	Visualization of Axial Material Flow by Eccentric Thread Swaging	Svetlana, Ortmann-Ishkina	13:00 - 14:00	15:00 - 16:00	13:00 - 14:00	17:00 - 18:00
237	Behrens, Bernd-Arno; Jüttner, Sven; Brunotte, Kai; Özkaya, Fahrettin; Wohner, Maximilian; Stockburger, Eugen	Extension of the Conventional Press Hardening Process by Local Material Influence to Improve Joining Ability	Stockburger, Eugen	09:00 - 10:00	14:00 - 15:00	09:00 - 10:00	14:00 - 15:00
248	Serratore, Giuseppe; Gagliardi, Francesco; Filice, Luigino; Bentrovato, Renato; Ambrogio, Giuseppina	Numerical Analysis of the ISF Process on Sheet with Locally Modified Material Flow Stress	Ambrogio, Giuseppina	10:00 - 11:00	15:00 - 16:00	10:00 - 11:00	15:00 - 16:00
281	Wessel, Alexander; Butz, Alexander; Willmann, Tobias; Bischoff, Manfred	Effect of Anisotropic 3D Yield Functions on a Roller Hemming Simulation	Wessel, Alexander	11:00 - 12:00	14:00 - 15:00	11:00 - 12:00	16:00 - 17:00
294	Béres, Gábor; Lukács, Zsolt; Tisza, Miklós	Springback Evaluation of Tailor Welded Blanks at V-die Bending made of DP Steels	Béres, Gábor	13:00 - 14:00	15:00 - 16:00	13:00 - 14:00	17:00 - 18:00
296	Tian, Famin; Li, Nan	Investigation of the Feasibility of a Novel Heat Stamping Process for Producing Complex-shaped Ti-6Al-4V Panel Components	Tian, Famin	09:00 - 10:00	14:00 - 15:00	09:00 - 10:00	14:00 - 15:00
309	Garcia, Aitor; Trinidad, Javier; Otegi, Nagore; Mendiguren, Joseba; Sáenz de Argandoña, Eneko; Silvestre, Elena; Galdos, Lander	The influence of the kinematic hardening on the FEM simulation of Tension Levelling Process	Galdos, Lander	10:00 - 11:00	15:00 - 16:00	10:00 - 11:00	15:00 - 16:00
319	Orallo, Ana; Trinidad, Javier; Galdos, Lander; Sáenz de Argandoña, Eneko; Mendiguren, Joseba	Aluminum Springback Reduction by Post-forming Electric Pulses	Mendiguren, Joseba	11:00 - 12:00	14:00 - 15:00	11:00 - 12:00	16:00 - 17:00
340	Besong, Lemopi Isidore; Buhl, Johannes; Ünsal, Ismail; Bambach, Markus; Polte, Mitchel; Blumberg, Julian; Uhlmann, Eckart	Development of Tool Paths for Multi-axis Single Stage Incremental Hole-flanging	Besong, Lemopi Isidore	13:00 - 14:00	15:00 - 16:00	13:00 - 14:00	17:00 - 18:00
361	Cédric, Bonnardot; Pierrick, Malécot; Sébastien, Thibaud	Shape Accuracy Improvement Obtained by $\mu$ -SPIF by Tool Path Compensation	Bonnardot, Cédric Christian	09:00 - 10:00	14:00 - 15:00	09:00 - 10:00	14:00 - 15:00
369	Mandal, Paranjayee; Lalvani, Himanshu; Watt, Kyle; Conway, Alastair; Tuffs, Martin	A Study on Microstructural Evolution in Cold Rotary Forged Nickel-Superalloys: C263 and Inconel 718	Mandal, Paranjayee	10:00 - 11:00	15:00 - 16:00	10:00 - 11:00	15:00 - 16:00
382	Afzal, Muhammad Junaid; Maqbool, Fawad; Hajavifard, Ramin; Buhl, Johannes; Walther, Frank; Bambach, Markus	Modeling the Residual Stresses Induced in the Metastable Austenitic Stainless Steel Disc Springs manufactured by Incremental Sheet Forming by a Combined Hardening Model with Phase Transformation	Afzal, Muhammad Junaid	11:00 - 12:00	14:00 - 15:00	11:00 - 12:00	16:00 - 17:00
409	Younas, Nabeel; Chalal, Hocine; Abed-Meraim, Farid	Finite Element Simulation of Sheet Metal Forming Processes using Non-Quadratic Anisotropic Plasticity Models and Solid-Shell Finite Elements	Younas, Nabeel	13:00 - 14:00	15:00 - 16:00	13:00 - 14:00	17:00 - 18:00
430	Dia, Mohamadou; Gravouil, Anthony; Hamila, Nahiene; Abbas, Mickael	Combination of Hexahedral and Prismatic Solid-shell Finite Elements	Dia, Mouhamadou	09:00 - 10:00	14:00 - 15:00	09:00 - 10:00	14:00 - 15:00

Tuesday, 5th May  
UTC+2h

Wednesday, 6th May  
UTC+2h

ID	Authors	Title	Presenter	Core time 1	Core time 2	Core time 1	Core time 2
<b>MS17 MATERIAL BEHAVIOUR MODELLING</b>							
109	Ogihara, Yuki; Minote, Toru; Ishiwatari, Akinobu; Tamai, Yoshikiyo	In-plane Biaxial Compression Test on 780MPa Cold Rolled Sheet Steel	Ogihara, Yuki	09:00 - 10:00	14:00 - 15:00	09:00 - 10:00	14:00 - 15:00
176	Bönisch, Matthias; Van Bael, Albert; Seefeldt, Marc; Barriobero-Vila, Pere; Requena, Guillermo; Sanchez, Nuria; Cooreman, Steven	Unravelling Anisotropy Evolution during Spiral Pipe Forming: a Multiscale Approach	Bönisch, Matthias	10:00 - 11:00	15:00 - 16:00	10:00 - 11:00	15:00 - 16:00
224	Jaworek, David; Gierden, Christian; Kinner-Becker, Tobias; Waimann, Johanna; Reese, Stefanie	Modeling Material Modifications Using a Process Independent Approach	Jaworek, David Dominik	11:00 - 12:00	14:00 - 15:00	11:00 - 12:00	16:00 - 17:00
229	Lingbeek, Roald; Aldemir, Burak; Soni, Anurag; Jagalur, Srivathsa; Yao, Liqiang	Material Spread and Local Failure in Breakage Modeling for Steel Safety Components	Lingbeek, Roald Arnoud	13:00 - 14:00	15:00 - 16:00	13:00 - 14:00	17:00 - 18:00
230	Sener, Bora; Kilicarslan, Elif Sila; Firat, Mehmet	Modelling Anisotropic Behavior of AISI 304 Stainless Steel Sheet Using a Fourth-Order Polynomial Yield Function	Sener, Bora	09:00 - 10:00	14:00 - 15:00	09:00 - 10:00	14:00 - 15:00
242	Cătălina, Ciofu; Cosmin-Constantin, Grigoras; Bogdan Alexandru, Chirță; Cosmin Alexandru, Iancu; Gheorghe, Brabie	Fracture Investigation in Draw Bending of AZ31B Sheets using Fuzzy Logic Prediction	Ciofu, Cătălina	10:00 - 11:00	15:00 - 16:00	10:00 - 11:00	15:00 - 16:00
259	Alimov, Artem; Sizova, Irina; Biba, Nikolay; Bambach, Markus	Prediction of Mechanical Properties of Ti-6Al-4V Forgings Based on Simulation of Microstructure Evolution	Alimov, Artem	11:00 - 12:00	14:00 - 15:00	11:00 - 12:00	16:00 - 17:00
261	Eswarappa Prameela, Suhas; Lipkin, Elaine; Chen, Joey; Kecskes, Laszlo; Xu, Zhigang; Weihs, Timothy	Enhanced Precipitation and Recrystallization in a Mg-Zn Alloy During Low-Temperature Extrusion	Eswarappa Prameela, Suhas	13:00 - 14:00	15:00 - 16:00	13:00 - 14:00	17:00 - 18:00
273	Hapsari, Gemala; Thibaud, Sébastien; Richard, Fabrice; Malécot, Pierrick; Ben Hmida, Ramzi; Bonnardot, Cédric	Thin Sheet Behaviour Identification by $\mu$ -InDef and Identifiability Analysis	Bonnardot, Cédric	09:00 - 10:00	14:00 - 15:00	09:00 - 10:00	14:00 - 15:00
288	Mancini, Edoardo; Campana, Francesca; Pilone, Daniela; Sasso, Marco	Mechanical Testing of Metallic Foams for 3d Model and Simulation of Cell Distribution Effects	Mancini, Edoardo	10:00 - 11:00	15:00 - 16:00	10:00 - 11:00	15:00 - 16:00
290	Yaich, Mariem; Gavrus, Adinel	New Phenomenological Material Constitutive Models for the Description of the Ti6Al4V Titanium Alloy Behavior Under Static and Dynamic Loadings	Gavrus, Adinel	11:00 - 12:00	14:00 - 15:00	11:00 - 12:00	16:00 - 17:00
292	Petrov, Mikhail; Kalpin, Yuliy; Petrov, Pavel	Numerical Investigation of Upsetting and Transverse Extrusion Process for "Rod with Flange" Parts and Preforms Production Made from Aluminium Alloy 1013	Petrov, Mikhail Alexandrovitch	13:00 - 14:00	15:00 - 16:00	13:00 - 14:00	17:00 - 18:00
335	Graf, Marcel; Sebastian Fritsch, Sebastian Fritsch; Awiszus, Birgit	Determination of Forming Behaviour of EN AW-6060 by Different Testing Methods under Cold Bulk Forming Conditions	Graf, Marcel	09:00 - 10:00	14:00 - 15:00	09:00 - 10:00	14:00 - 15:00
362	Klöppel, Thomas; Merten, Mathias; Haufe, André; Buhl, Johannes; Bambach, Markus	On the Numerical Prediction of Process-Dependent Properties of Current High-Performance Materials with Material Model *MAT_254 in LS-DYNA	Kloeppe, Thomas	10:00 - 11:00	15:00 - 16:00	10:00 - 11:00	15:00 - 16:00
367	Vintilă, Iuliana	The Thermo-Dielectric Behavior of Biological Multi-Layer Structures In Dielectric Fields	Vintilă, Iuliana	11:00 - 12:00	14:00 - 15:00	11:00 - 12:00	16:00 - 17:00
372	Jiabin, Liang; Dominique, Guines; Lionel, Leotoing	Effect Of Temperature And Strain Rate On The Plastic Anisotropic Behavior Characterized By A Single Biaxial Tensile Test	Lionel, Leotoing	13:00 - 14:00	15:00 - 16:00	13:00 - 14:00	17:00 - 18:00
385	Vajragupta, Napat; Maassen, Sascha; Clausmeyer, Till; Brands, Dominik; Schröder, Jörg; Hartmaier, Alexander	Micromechanical Modeling of DP600 steel: From Microstructure to The Sheet Metal Forming Process	Vajragupta, Napat	09:00 - 10:00	14:00 - 15:00	09:00 - 10:00	14:00 - 15:00
400	Cazacu, Oana	Predictive Capabilities of Non-Quadratic Orthotropic Criteria	Cazacu, Oana	10:00 - 11:00	15:00 - 16:00	10:00 - 11:00	15:00 - 16:00
408	Liu, Wenqi; Lian, Junhe	Microstructure Effects on the Plastic Anisotropy of a Fine-Structured Dual-Phase Steel	Liu, Wenqi	11:00 - 12:00	14:00 - 15:00	11:00 - 12:00	16:00 - 17:00
429	Vu, Anh Tuan; Grunwald, Tim; Bergs, Thomas	Thermo-viscoelastic Modeling of Nonequilibrium Material Behavior of Glass in Nonisothermal Glass Molding	Vu, Anh Tuan	13:00 - 14:00	15:00 - 16:00	13:00 - 14:00	17:00 - 18:00