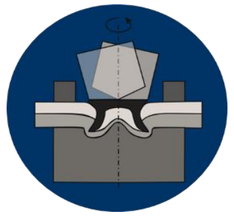
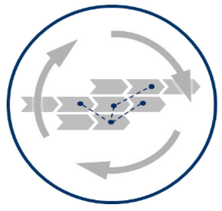
SheMet 2021 Programme

Chairman	Beginning	Speaker	Monday, 29 March 2021	Duration
	9:00 AM	M. Merklein	Opening Ceremony	00:15
			Joining by Forming	
Merklein **9:15 AM - 10:30 AM**	9:15 AM	P. Martins	New Joining Concepts for Self-Pierce Riveting	00:25
	9:40 AM	F. Kappe	New Approach for Versatile Self-Piercing Riveting: Joining System and Auxiliary Part	00:25
	10:05 AM	B. Uhe	Influence of the Rivet Coating on the Friction during Self-Piercing Riveting	00:25
	10:30 AM		**Coffee Break / Breakout rooms (Topic 1, Topic 2)**	00:15
Duflou **10:45 AM - 12:25 PM**	10:45 AM	S. Wituschek	Friction Characterisation for a Tumbling Self-Piercing Riveting Process	00:25
	11:10 AM	M. Otroshi	Modeling of Stiffness Anisotropy in Simulation of Self-Piercing Riveted Components	00:25
	11:35 AM	M. Busch	Determination of the Interface Structural Resolution of an Industrial X-Ray Computed Tomograph Using a Spherical Specimen and a Gap Specimen Consisting of Gauge Blocks	00:25
	12:00 PM	D. Römisch	Investigation of Different Joining by Forming Strategies when Connecting Different Metals without Auxiliary Elements	00:25
	12:25 PM		**Lunch**	00:50
Martins **1:15 PM - 2:55 PM**	1:15 PM	B. Gröger	Temperature Dependent Modelling of Fibre-Reinforced Thermoplastic Organo-Sheet Material for Forming and Joining Process Simulations	00:25
	1:40 PM	J. Friedlein	A Finite Plasticity Gradient-Damage Model for Sheet Metals during Forming and Clinching	00:25
	2:05 PM	L. Ewenz	Effect of different tool geometries on the mechanical properties of Al-Al clinch joints	00:25
	2:30 PM	C. Steinfelder	Load Path Transmission in Joining Elements	00:25
	2:55 PM		**Coffee Break / Breakout rooms (Topic 1, Topic 2)**	00:15
Lechner **3:10 PM - 4:25 PM**	3:10 PM	M. Rossel	Development of a Method for the Identification of Friction Coefficients in Sheet Metal Materials for the Numerical Simulation of Clinching Processes	00:25
	3:35 PM	B. Sadeghian	A Method for Characterization of Geometric Deviations in Clinch Points with Computed Tomography and Transient Dynamic Analysis	00:25
	4:00 PM	D. Weiß	Numerical and Experimental Fracture Mechanical Investigations of Clinchable Sheet Metals Made of HCT590X	00:25
	4:25 PM		**End of Sessions**	



Chairman	Beginning	Speaker	Tuesday, 30 March 2021	Duration
	9:00 AM		**Welcome**	00:05
Meschut **9:05 AM - 10:20 AM**	9:05 AM	S. Harzheim	A First Approach for the Treatment of Galvanic Corrosion and of Load-Bearing Capacity of Clinched Joints	00:25
	9:30 AM	C. Zirngibl	Approach for the automated analysis of geometrical clinch joint characteristics	00:25
	9:55 AM	L. Lizzul	Surface Treatment to Promote Joining of Glass Fiber Reinforced Plastic and AZ31 Magnesium Alloy for Fiber Metal Laminates via Hot Metal Pressing	00:25
	10:20 AM		**Coffee Break / Breakout rooms (Topic 1, Topic 2)**	00:15
			Incremental Forming	
Hagenah **10:35 AM - 12:40 PM**	10:35 AM	M. Gucciardi	Development of Magnetic Field-Assisted Single-Point Incremental Forming	00:25
	11:00 AM	H. Vanhove	Multistep Incremental Forming beyond 100°	00:25
	11:25 AM	O. Zaheer	On the Effectiveness of SPIF Process to Re-Form End-Of-Life Components as Compared to Conventional Forming Approach	00:25
	11:50 AM	E. Simonetto	Incremental Roller-Flanging of Thick Metal Sheets	00:25
	12:15 PM	Y. Carette	Geometry Compensation Methods for Increasing the Accuracy of the SPIF Process	00:25
	12:40 PM		**Lunch**	01:10
	1:20 PM		**Meeting Organizers**	00:30
			Bonding and Welding	
Fratini **1:50 PM - 3:55 PM**	1:50 PM	G. Rotella	Influence of Roughness and Curing Temperature on the Strength of Aluminum Adhesively Bonded Joints	00:25
	2:15 PM	M. Keskitalo	Microstructure and Formability of Laser Welded Dissimilar Butt Joints of Austenitic- Ferritic Stainless Steels	00:25
	2:40 PM	J. Mäkikangas	Laser Welding of Laser Powder Bed Fusion (LPBF) Manufactured 316L Stainless Steel Lap Joint	00:25
	3:05 PM	M. Hietala	Microstructural Evolution and Tensile Strength of Laser-Welded Butt Joints of Ultra-High Strength Steels: Low and High Alloy Steels	00:25
	3:30 PM	T. Rautio	Laser Welding of Laser Powder Bed Fusion Manufactured Inconel 718: Microstructure and Mechanical Properties	00:25
	3:55 PM		**Coffee Break / Breakout rooms (Topic 1, Topic 2)**	00:15
			Characterisation	
Merklein **4:10 PM - 5:25 PM**	4:10 PM	I.F. Weiser	Investigation of the Micro Hardness at the Cut Surface of Fine Blanked Parts with Variation of Sheet Material and Cutting Temperature	00:25
	4:35 PM	A. Biallas	Material Model for the Production of Steel Fibers by Notch Rolling and Fullin	00:25
	5:00 PM	J. Stahl	The Frictional Force on the Slug in Shear Cutting	00:25
	5:25 PM		**End of Sessions**	



SheMet 2021 Programme

Chairman	Beginning	Speaker	Wednesday, 31 March 2021	
	9:00 AM		**Welcome**	00:05
Micari **9:05 AM - 10:20 AM**	9:05 AM	M. Dykiert	Fracture Characterisation by Butterfly-Tests and Damage Modelling of Advanced High Strength Steels	00:25
	9:30 AM	P. Hetz	Determination of the Biaxial Anisotropy Coefficient Using a Single Layer Sheet Metal Compression Test	00:25
	9:55 AM	F. Knieps	Local Strain Measurement in Tensile Test for an Optimized Characterization of Packaging Steel for Finite Element Analysis	00:25
	10:20 AM		**Coffee Break / Breakout rooms (Topic 1, Topic 2)**	00:15
			Forming	
Duflou **10:35 AM - 12:15 PM**	10:35 AM	J. Hafenecker	Stretch Forming of Ti-6Al-4V Hybrid Parts at Elevated Temperatures	00:25
	11:00 AM	J. Lehmann	Introducing Residual Stresses on Sheet Metals by Slide Hardening under Stress Superposition	00:25
	11:25 AM	U. Durmaz	Assessment of Springback Behavior of 800 – 1200 Mpa Dual-Phase Steel Grades	00:25
	11:50 AM	E. Scharifi	Functional Gradation in Precipitation Hardenable AA7075 Alloy by Differential Cooling Strategies	00:25
	12:15 PM		**Coffee Break / Breakout rooms (Topic 1, Topic 2)**	00:15
Hagenah **12:30 PM - 1:45 PM**	12:30 PM	A. Tomas Garcia	Towards automatic part identification in sheet metal workshops	00:25
	12:55 PM	J. Ma	Effect of stretching on springback in rotary stretch bending of aluminium alloy profiles	00:25
	1:20 PM	P. Müller	Investigation of the Influence of a Superimposed Oscillated Forming Process on Forming Characteristics	00:25
	1:45 PM	M. Merklein	Closing Ceremony	00:15
	2:00 PM		**End of Conference**