



International Institute of Welding
A world of joining experience

IIW Commission III
Chair: Prof. Dr. Jorge F. dos Santos
Co-Chair: Prof. H.S. Chang

LIST OF DOCUMENTS

Thursday, 23rd July 13:00 – 16:00				
13:00	13:10	Presentation of the IIW Secretariat Dr. Elisabetta Sciacaluga		
III-A “Resistance Welding and Allied Processes”				
Time Start	Time End	Title and Authors	Manuscript / Abstract	IIW Doc Number
13:10	13:30	Review of LME Testing for Spot Welding – The Problem of Wearing Two Watches, by E. Biro (Canada)	AA2020 WitW	III-2003-20
13:50	14:10	In-process electrode movement control system for weld quality assurance in micro resistance spot welder, by Kwangeun Cho, Hanjun Lin, Munkhchimeg Raash, and Heeseok Chang (Republic of Korea)	AA2020	III-2010-20

Time Start	Time End	Title and Authors	Manuscript / Abstract	IIW Doc Number
14:10	14:30	Joining of high-strength steel grades in lightweight structures using single-stage resistance element welding on conventional resistance spot welding machines, Gerson Meschut, Heinrich Günter (Germany)	AA2020 WitW	III-1999-20
14:30	14:50	Significance of Cutting Plane in Liquid Metal Embrittlement Severity Quantification, by C. DiGiovanni ,L. He, C. DiGiovanni, C. Hawkins, N.Y. Zhou, E. Biro (Canada)	AA2020 WitW	III-2001-20
14:50	15:00	Information from Prof. John Lippold, Chief Editor of Welding in the World”		
15:00	15:20	Investigations on the Process and Properties of Short-Time Resistance Welded Joints of Welded Square Nuts Using MFDC Inverter Technology, by V. Schreiber, M. Wohner, N. Mitzschke, M. Dieckmann, S. Jüttner (Germany)	AA2020	III-2014-20
Presentations Sub-Commission III-B “Solid-State Based Processes”				
15:20	15:40	Tool wear behaviour and the influence of wear resistant coatings during refill friction stir spot welding of aluminium alloys, by D. Lauterbach, A. Harms, C. Leupold, N. Eslami, K. Dilger (Germany)	AA2020 WitW	III-2000-20
15:40	16:00	Utilizing surface particles formed by etching to enhance bonding strength between TC4 and PET, by Xin Zou, Bakytzhan Sariyev, Ke Chen, Muyang Jiang, Min Wang, Xueming Hua, Lanting Zhang, Aidang Shan (PR China)	AA2020	III-2004-20

Friday, 24 th July				
Time Start	Time End	Title and Authors	Manuscript / Abstract	IIW Doc Number
Presentations Sub-Commission III-B “Solid-State Based Processes” (cont.)				
13:00	13:20	Friction stir welding of an ultra high-strength steel plate with a minimum yield strength of 1100 MPa: Metallurgical and mechanical characterization of the joint, Gonçalo Sorger, Teemu Tero, Pedro Vilaça (Finland)	AA2020	III-2005-20
13:20	13:40	Influence of different Ni coatings on the long-time behaviour of ultrasonic welded EN AW 1370 cable/ EN CW 004A arrestor dissimilar joints, Tobias Köhler, Michael Grätzel, Ludwig Kleinhenz, Jean Pierre Bergmann (Germany)	AA2020	III-1996-20
13:40	14:00	Influence of the rotation speed on the interface microstructure and joining quality of aluminum alloy 6061/CF-PPS joints produced by refill friction stir spot welding, Hong Li, Xu-sheng Liu, Yu Zhang, Tao Yuan, Jacek Senkara (PR China, Poland)	AA2020	III-2008-20
14:00	14:20	Research on interface microstructure and mechanical properties for electromagnetic pulse welding joint of Aluminum/steel, by Shifa LIANG and Luxin CHI (PR China)	AA2020	III-2002-20
14:20	14:40	Ultrasonic Assisted Friction Stir Welding of 2219-T6 Aluminum Alloy and Mechanism of Acoustoplastic Effect, by Yanying Hu, Sun Yat-Sen, Huijie Liu, Hidetoshi Fujii (PR China, Japan)	AA2020	III-2006-20
14:40	14:50	Break		
14:50	15:10	Investigating the effect of chemistry on the flash butt weldability of steels through a combination of experiments and modelling, by Ipsita Madhumita Das, Nikhil Shajan, Kanwer Singh Arora, Manas Paliwal, Mahadev Shome (India)	AA2020 WitW	III-1993-20

Time Start	Time End	Title and Authors	Manuscript / Abstract	IIW Doc Number
15:10	15:30	Advances in Friction Stir Welding by separate control of shoulder and probe, by Michael Grätzel, Konstantin Schick-Witte, Felix Sieber and Jean Pierre Bergmann (Germany)	AA2020 WitW	III-1995-20
15:30	15:50	Strengthening mechanism of friction stir welded alpha titanium alloy specially designed T-joints, by Yu Su, Wenya Li, Xichang Liu, Fuyang Gao, Yan Yu, Achilles Vairis (China)	AA2020	III-2016-20
15:50	16:00	Closure		

Saturday 25th July

Presentations Sub-Commission III-B “Solid-State Based Processes” (cont.)

Time Start	Time End	Title and Authors	Manuscript / Abstract	IIW Doc Number
13:00	13:20	Improving and Monitoring the Magnetic Pulse Welding Process between Dissimilar Metals, by Joerg Bellmann, Sebastian Schettler, Sebastian Schulze, Jens Standfuss, Martina Zimmermann, Eckhard Beyer, Christoph Leyens (Germany)	AA2020 WitW	III-1994-20
13:20	13:40	Force Feedback based Quality Monitoring of the Friction Stir Welding process, utilizing an analytic algorithm Pascal Rabe, Alexander Schiebahn, Uwe Reisgen, Tiandong Xi, Christian Brecher (Germany)	AA2020 WitW	III-1997-20
13:40	14:00	Characterization of compaction during ultrasonic welding of aluminum stranded wires (EN AW 1070) and copper terminals (EN CW004A), Pascal Pöthig, Kristina Roder, Franziska Petzoldt, Jean Pierre Bergmann and Guntram Wagner (Germany)	AA2020	III-1998-20

Time Start	Time End	Title and Authors	Manuscript / Abstract	IIW Doc Number
14:00	14:20	Modified Friction Stir Welding of Al-Mg-Cu (AA 2024 T4) Aluminum Alloy, Pavel Polyakov, Iuliia Morozova, Ahmad Alali Alkhalaf, F. Isupov, Anton Naumov (Russia, Germany)	AA2020	III-2009-20
14:20	14:40	The influence of tool wear on mechanical performance of AA6061-T6 Refill Friction Stir Spot Welds, Willian S. de Carvalho, Maura C. Vioreanu, Maxime R. A. Lutz, Gonçalo P. Cipriano, Sergio T. Amancio-Filho (Austria, Romania)	AA2020	III-2011-20
14:40	14:50	Break		
14:50	15:10	Fabrication of high-quality joint in dissimilar friction welding of Ti-6Al-4V alloy and SUS316L stainless steel, by Huihong Liu, Yo Aoki, Yasuhiro Aoki, Hidetoshi Fujii (Japan)	AA2020	III-2012-20
15:10	15:30	Dissimilar friction stir welding of pure Ti and carbon fiber reinforced plastic, Jeong-Won Choi, Yoshiaki Morisada, Huihong Liu, Kohsaku Ushioda, Hidetoshi Fujii, Kimiaki Nagatsuka, Kazuhiro Nakata (Japan)	AA2020	III-2013-20
15:30	15:45	Refill friction stir spot welded joints of 2195 and 2219 aluminum alloys, by Yangfan Zou, Wenya Li, Dong Wu, Qiang Chu, Feifan Wang, Huawei Tang (PR China)	AA2020 WitW	III-2015-20
15:45	16:00	A comparative study of friction self-piercing riveting (F-SPR) and self-piercing riveting (SPR) of aluminum alloy AA5182-O, Yongbing Li, Yunwu Ma (PR China)	AA2020	III-2007-20