



## ***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**

<b>Monday, 12th July 13:00 – 16:00</b>				
13:00	13:10	<b>Presentation of the IIW Secretariat Dr. Elisabetta Sciacaluga</b>		
<b>Presentations Sub-Commission III-A “Resistance Welding and Allied Processes”</b>				
<b>Time Start</b>	<b>Time End</b>	<b>Title and Authors</b>	<b>Manuscript / Abstract</b>	<b>IIW Doc Number</b>
13:10	13:30	Improvement on mechanical properties and electrical conductivity of Al-Cu resistance spot welding joints with Ni-P amorphous coatings, by Nannan Chen, Min Wang, Jingjing Li, Hongliang Wang (PR China)	AA2021	III-2047-21
13:50	14:10	Analysis of Resistance Welding of the 18650 Batteries in FEM-Based Calculations, by Szymon Kowieski, Zygmunt Mikno (Poland)	AA2021 WitW	III-2051-21

<b>Time Start</b>	<b>Time End</b>	<b>Title and Authors</b>	<b>Manuscript / Abstract</b>	<b>IW Doc Number</b>
14:10	14:30	Hold time sensitivity associated with profile force, by M. Raash, K.E. Cho, S.H. Lee, Hee Seok Chang, D.Y. Choi (Republic of Korea)	AA2021	III-2053-21
14:30	14:50	Practical Method for Estimation of Fatigue Strength of Spot Welded Joint, by Hidekazu Murakawa (Japan)	AA2021	III-2058-21
14:50	15:00	<b>Information from Prof. John Lippold, Chief Editor of Welding in the World”</b>		
15:00	15:20	Decreasing LME Cracking in Joints Subjected to Assembly Variability, by K. Pearson, M. Neeb, M. Shojaee, O. Sherepenko, A.R.H. Midawi, E. Biro (Canada)	AA2021	III-2042-21
15:20	15:40	Research of IMC growth tendency of Al-steel resistance spot welding process by numerical calculation, by Kang Zhou, Gang Wang (PR China)	AA2021	III-2044-21
15:40	16:00	Investigation on the influence of hot stamping parameters and sheet thickness on the weldability of boron steel, Vincent Schreiber, Maximilian Wohner and Sven Jüttner (Germany)	AA2021	III-2046-21

## Tuesday, 13<sup>th</sup> July 13:00 – 16:00

Time Start	Time End	Title and Authors	Manuscript / Abstract	IIW Doc Number
<b>Presentations Sub-Commission III-A “Resistance Welding and Allied Processes”</b>				
13:00	13:20	A study on real-time weld current control for weld quality assurance in micro resistance spot welding, by Hanjun Lin, Kwangeun Cho, Hee Seok Chang (Republic of Korea)	AA2021 WitW	III-2055-21
13:20	13:40	Maximizing Spot Weld Cross-Tension Strength in 3G AHSS by Optimizing Fusion Boundary Composition, by B. Figueredo, D.C. Ramachandran, E. Biro (Canada)	AA2021	III-2043-21
Time Start	Time End	Title and Authors	Manuscript / Abstract	IIW Doc Number
13:40	14:00	A Comparative Study on the Failure Behavior of Arc Plug Weld Joints of Automotive Steels from 300 MPa to 1500MPa in Tensile Shear Test, Arun Lalachan, Siva Prasad Murugan, Kyung-Young Kim, Ji-Young Shin, Doo-Young Kim, Ho-Young Gong, Yeong-Do Park (Republic of Korea)	AA2021	III-2045-21
<b>Presentations Sub-Commission III-B “Solid-State Based Processes”</b>				
14:00	14:20	Validation of Alternative Materials for Highly Stressable Tools for Friction Stir Welding of Steels, by Rolf Boywitt, Steffen Risse, Matthias Pöge, Heidi Cramer, Marcus Emmel, Jennifer Karbaum, Markus Zwick (Germany)	AA2021 WitW	III-2049-21

14:20	14:40	Analysis of the oscillation behavior during ultrasonic welding of EN AW-1070 wire strands and EN CW004A terminals, by Andreas Gester, Guntram Wagner, Pascal Pöthig), Jean Pierre Bergmann, Marco Fritzsche (Germany)	AA2021 WitW	III-2050-21
14:40	14:50	<b>Break</b>		
14:50	15:10	Comparison of process behavior, microstructure and mechanical properties of ultrasound enhanced friction stir welded titanium/titanium joints, by Marco Thomä, Andreas Gester, Guntram Wagner (Germany)	AA2021 WitW	III-2052-21
15:10	15:30	Corner Stationary-Shoulder Friction Stir Welds in Dissimilar Aluminum Joints, by V. Mertinger, B. Varbai, Y. Adonyi, J. DeBacker, E. Nagy, M. Lesko, A. Kovacs, V. Karpati, (Hungary, Sweden, UK)	AA2021 WitW	III-2054-21
15:30	15:50	Tensile behaviour and microstructure evolution in friction stir welded 2195 - 2219 dissimilar aluminium alloy joints, by M Agilan, G. Phanikumar and D Sivakumar (India)	AA2021 WitW	III-2059-21
15:50	16:00	FSW Steel Standardisation Group		

## Wednesday, 14<sup>th</sup> July 13:00 – 16:00

### Presentations Sub-Commission III-B “Solid-State Based Processes”

Time Start	Time End	Title and Authors	Manuscript / Abstract	IIW Doc Number
13:00	13:20	Thermo-physical simulation of microstructure evolution for linear friction welded joint of a near-beta titanium alloy, by Zhenguo Guo, Tiejun Ma, Wenya Li, Yong Zhang, Yugui Li (PR China)	AA2021	III-2048-21
13:20	13:40	Effect of water environment in joining dissimilar Al5083 and Al6061-T6 aluminum alloy using friction stir welding, by M Z Hasnol, M F A Zaharuddin, S. Sharif (Malaysia)	AA2021 WitW	III-2056-21
13:40	14:00	Linear friction welding of AA6061-T6 alloy, by Jeong-Won Choi, Weihao Li, Kohsaku Ushioda, Hidetoshi Fujii, Motomichi Yamamoto (Japan)	AA2021	III-2057-21
14:00	14:20	Investigation of a novel configuration for skin-stringer aircraft connections obtained by Stationary Shoulder Friction Stir Welding, by Alessandro Barbini, Jorge F. dos Santos, Norbert Huber (Germany)	AA2021 WitW	III-2061-21
14:20	14:40	Robotic AI-Enabled FSW systems in shipyard maintenance for in-water and underwater repairs, Sara Fernandes, Rita Bola, Eurico Assunção (Portugal)	AA2021	III-2060-21
14:40	14:50	<b>Break</b>		

14:50	15:10	Response of an Alloy AA5754-H22 to High Friction Stir Welding Speeds, by Tiago L. Santos, J. Carstensen, L. Bergmann, M. Hasieber, J.F. dos Santos, J.P. Bergmann and B. Klusemann (Germany)	AA2021 WitW	III-2062-21
15:10	15:15	<b>Announcement: Prof. Hisashi SERIZAWA</b> The 6th International Symposium on Visualization in Joining & Welding Science through Advanced Measurements and Simulation & The International Symposium on Design & Engineering by Joint Inverse Innovation for Materials Architecture 25-26 October 2022, Osaka, Japan		
15:15	15:45	Closure: Resolutions, Intermediate Meeting		