

# 12<sup>th</sup> European Adhesion Conference and 4<sup>th</sup> Luso-Brazilian Conference on Adhesion and Adhesives

5-7 SEPTEMBER 2018

CONGRESS CENTRE OF INSTITUTO SUPERIOR TÉCNICO  
(IST) – UNIVERSITY OF LISBON, PORTUGAL



## PROGRAMME

# EURADH

# CLBA 2018

12<sup>th</sup> European Adhesion Conference and  
4<sup>th</sup> Luso-Brazilian Conference on Adhesion and Adhesives

## PROGRAMME OF EURADH/CLBA 2018

Author underlined → presenting author

Wednesday 5 September 2018				
8:40	EURADH/CLBA 2018 Opening (Auditorium)			
	Session 1A – Joint design I (Chair: RD Adams)	Session 1B – Adhesion and surface treatments I (Chair: A Hartwig)	Session 1C – Adhesives development I (Chair: A Lutz)	Session 1D – Bioadhesion (Chair: J Bordado)
	Auditorium	Room 02.1	Room 02.2	Room 02.3
9:00	Gradual degradation process of thin-walled box beams with omega cross-section subjected to 3 - point bending (EUR18_1)  <u>T Sadowski</u> (Lublin University of Technology, Poland), M Nowicki	Improved glass bonding with plasma treatment (EUR18_2)  <u>Å Lundevall</u> (Swerea IVF, Sweden), P Sundberg, L Mattsson	Strength and performance enhanced polyurethane adhesives and resins (EUR18_3)  <u>S Kelch</u> (Sika Technology AG, Switzerland)	An innovative route to hybrid functional metallic nanoparticles/plasma polymer coatings: Application to an anti-biofouling and bactericidal material (EUR18_4)  M Delmee, G Mertz, J Bardon, A Marguier, L Ploux, V Roucoules, <u>D Ruch</u> (Luxembourg Institute of Science and Technology, Luxembourg)
9:20	Development of a new apparatus for the determination of the energy release rate under mixed mode dynamic loading (EUR18_8)  <u>N Dagorn</u> (Safran Aircraft Engines, France), V Joudon, G Portemont, B Bourel, F Lauro	Silicones on native aluminum – adhesion mechanisms as revealed by in situ FTIR-ERAS studies (EUR18_5)  AL Palencia Penagos, <u>W Possart</u> (Saarland University, Germany)	Influence of moisture on reactive polyurethane adhesive during and after crosslinking: Chemistry, polymer dynamics and mechanical properties (EUR18_6)  <u>B Zimmer</u> (Saarland University, Germany), C Nies, C Schmitt, C Paulo, W Possart	European network of bioadhesion expertise (COST Action CA15216) (EUR18_29)  <u>R Santos</u> (University of Lisbon, Portugal)
9:40	Extended finite element modelling of aluminium stepped-adhesive joints (EUR18_24)  RMD Machado, <u>RDSG Campilho</u> (ISEP, Portugal), RB Rocha	Urethane molecules on native Al and Cu – Formation and state (EUR18_9)  <u>E Eug</u> (Saarland University, Germany), H Jost, A Ahmed, C Pirro, W Possart	Time and temperature dependant rheology and adhesion of fast-curing two-component PUR-systems (EUR18_11)  <u>G Conermann</u> (Daimler AG, Germany), K Dilger	Prevention of bioadhesion on cellulose using polymer brushes (EUR18_g8)  AS Münch, <u>P Uhlmann</u> (Leibniz-Institut für Polymerforschung Dresden e. V., Germany)
10:00	Strength and stiffness variability study of viscoelastic adhesive butt joints (EUR18_45)  <u>K Van Massenhove</u> (KU Leuven, Belgium), D Vandepitte, S Debruyne	Effect of zones of poor adhesion in DCB fracture test (EUR18_18)  M Taleb Ali, J Jumel, <u>MFR Shanahan</u> (University of Bordeaux, France)	Cross-linking in an epoxy adhesive and epoxy-alumosilicate nanocomposite (EUR18_12)  <u>MC Weidner</u> (Saarland University, Germany), K Johann, A Haettich, W Possart	Hierarchically patterned adhesives for reversible adhesion on rough and smooth adherent (EUR18_116)  <u>N Singh</u> (Indian Institute of Technology Kanpur, India), A Ghatak
10:20	The use of high performance thermoplastics as a stress reduction feature for structural adhesive bonding of CFRP structures (EUR18_61)  <u>E Arkan</u> (WiWeB, Germany), J Holtmannspötter, T Hofmann, H-J Gudladt	An advanced study for the elimination of limitations in hermetic indium bonding applications (EUR18_220)  <u>Q Kahveci</u> (Roketsan Inc., Turkey), V Ruzgar, S Atakan, T Yalcinkaya	Qualification of fast curing processes for elementary bonded structures (EUR18_28)  <u>J Ditter</u> (Paderborn University, Germany), G Meschut	Mechanical characterization of a bio-adhesive and tensile strength for the bone-adhesive junction under different adhesion environments (EUR18_182)  <u>JG Vargas</u> (Universidad de los Andes, Colombia), PA Sarmiento, JP Casas, F Salcedo, RJ Rueda, CL Moreno, JC Briceño
10:40-11:00	COFFEE BREAK			
	Session 2A – Adhesion and surface treatments II (Chair: W Possart)	Session 2B – Joint design II (Chair: R Campilho)	Session 2C – Adhesive properties I (Chair: S Millington)	Session 2D – Pressure sensitive adhesives (Chair: H Poulis)
	Auditorium	Room 02.1	Room 02.2	Room 02.3
11:00	Elucidating of adhesion mechanism by observing the solid-liquid interface between isocyanate and epoxy for multi-material car bodies (EUR18_132)  <u>K Sensui</u> (Nissan Motor, Japan), T Tarui, T Miyamae, C Sato	Strain-based methodology for mixed-mode I+II fracture of composite-to-metal adhesively bonded joints (EUR18_50)  <u>MM Arouche</u> (CEFET/RJ, Brazil), S Teixeira de Freitas, S de Barros	Numerical and experimental analysis of vibration damping performance of polyurethane adhesive in machine operations (EUR18_208)  <u>R Vervaeke</u> (KU Leuven, Belgium), D Vandepitte, S Debruyne	Easily peelable silicone PSA containing a side-chain crystalline siloxane (EUR18_30)  <u>H Murakami</u> (Nagasaki University, Japan), S Yamaguchi, M Nanchi
11:20	Self-adhesion of unvulcanized polar elastomers (EUR18_135)  <u>V Hervio</u> (Ecole Supérieure de Physique et Chimie Industrielles, France), C Creton, V Briand	Examination of mechanical behavior of but curved adhesive joints subjected to bending (EUR18_225)  <u>Y Ayaz</u> (İnönü University, Turkey), Ş Çitil	Influence of the loading speed on the fracture envelope of ductile adhesives (EUR18_36)  <u>G Stamoulis</u> (Université de Bretagne Occidentale, France), N Carrere	Adhesion of solid microsphere on soft elastic surface (EUR18_111)  <u>S Mishima</u> (Tokyo Institute of Technology, Japan), T Ougizawa

11:40	Electropolymerization of acrylic acid on stainless steel for improved adhesion properties (EUR18_22) <a href="#">A González-Orive</a> (Universität Paderborn, Germany), D Meinderink, F. Sahin, HC Schmidt, W Homberg, G Grundmeier	Deformation-induced residual stress in layered materials (EUR18_35) <a href="#">H Noori</a> (Oklahoma State University, United States of America)	Filament stretching of high viscous industrial adhesives (EUR18_56) <a href="#">FJ Fassbender</a> (Fraunhofer IFAM, Germany), B Mayer, H Fricke, T Vallée	Characterization of fibrillation process by probe tack test in various scales (EUR18_112) <a href="#">K Takahashi</a> (Hokkaido University, Japan), R Oda, K Inaba, K Kishimoto
12:00	Laser-pretreatment of stainless steels for highly stable and autoclavable joints in medical applications (EUR18_42) <a href="#">S Mechtold</a> (University of Kassel, Germany), S Böhm, A Heft, V Katzy	Extracting a characteristic value concerning metal/composite hybrids – Identification of the relevant test method (EUR18_40) <a href="#">H Wehbe</a> (Technische Universität Braunschweig, Germany), D Blass, K Dilger	Determination of the shearing behaviour of a highly elastic two component silicone adhesive using butt-bonded hollow cylinders (EUR18_64) <a href="#">R Seewald</a> (RWTH Aachen University, Germany), B Marx, A Schiebahn, U Reisinger	The failure mechanics of PSAs under shear loading (EUR18_127) <a href="#">HK Minsky</a> (Ecole Supérieure de Physique et Chimie Industrielles, France), C Barrios, C Creton, M Ciccotti
12:20	Improved adhesive bonding of CFRP due to re-deposition prevention during UV ns-laser cleaning (EUR18_46) <a href="#">M Veltrop</a> (Fraunhofer IFAM, Germany), T Lukaszczuk, J Ihde, B Mayer	The effect of tensile load-exposed butt-curvilinear lap joints on the strength of the adhesive (EUR18_224) <a href="#">M Demir Aydın</a> (Erzurum Technical University, Turkey), Ç Şitil, I Bozkurt	Nano boron nitride/polyurethane adhesives in flexible laminated food packaging: peeling resistance and permeability properties (EUR18_72) <a href="#">AM Nacas</a> (Federal University of ABC, Brazil), AC Chinellato, MS Salvadori, DJ dos Santos	Effect of surface contamination by oils on the durability and strength of stainless steel – polyisobutylene pressure-sensitive adhesive joints (EUR18_145) <a href="#">AV Kostyuk</a> (AV Topchiev Institute of Petrochemical Synthesis, Russia), V Ya Ignatenko, TV Brantseva, SO Ilyin, SV Antonov
12:40	Improvement of the adhesion of continuously manufactured multi-material joints by application of primer (EUR18_60) <a href="#">T Reincke</a> (Technische Universität Braunschweig, Germany), S Hartwig, K Dilger	Adhesively bonded joints for offshore structures manufactured under water (EUR18_66) <a href="#">S Myslicki</a> (Fraunhofer IFAM, Germany), H Kordy, T Vallée, AW Momber, T Marquard, D Amouroux, C Josse, C Cellard, L Sohier, R Créac'hcadec	Improving the mechanical properties of epoxy adhesives using graphene nanoplatelets (EUR18_222) G Lara, J Cañas-Jimenez, T Garicano, JA Fernández-Gascón, A Goñi-Urtiaga, Y Ballesteros-Iglesias, <a href="#">JC del Real</a> (Universidad Pontificia Comillas)	Tuning adhesive properties of solvent-borne PSAs with ionic crosslinks (EUR18_149) <a href="#">J Tavera</a> (BASF SE, Germany), A Del Campo, M Gerst
13:00-14:00	LUNCH BREAK			
	<b>Session 3A – Joint design III (Chair: E Kellar)</b>	<b>Session 3B – Adhesion and surface treatments III (Chair: S Debruyne)</b>	<b>Session 3C – Adhesive development II (Chair: J Broughton)</b>	<b>Session 3D – Bonding in civil engineering (Chair: S Böhm)</b>
	<b>Auditorium</b>	<b>Room 02.1</b>	<b>Room 02.2</b>	<b>Room 02.3</b>
14:00	Application a direct/cohesive zone method for the evaluation of scarf adhesive joints (EUR18_26) DFO Silva, <a href="#">BDSG Campilho</a> (ISEP, Portugal), FJG Silva, UTF Carvalho	High strength substance-to-substance bonded thermoset-thermoplastic joints (EUR18_67) <a href="#">M Gedan-Smolka</a> (Leibniz-Institut für Polymerforschung Dresden e. V., Germany), I Kühnert, U Göhs, M Fischer, M Tuschla	Development of reactive polyurethane resins for use as hotmelt in the wood industry (EUR18_164) <a href="#">CSVG Esteves</a> (Lorcol, Portugal), JCS Cardoso, A Gomes, M Bastos, J Martins, F Barreiro, JCF Fernandes, F Magalhães, L Carvalho	Fatigue of glued-in rods in engineering hardwood products – Part I: Experimental results (EUR18_200) <a href="#">S Myslicki</a> (Fraunhofer IFAM, Germany), R Scholz, O Bletz-Mühlendorfer, F Diehl, L Bathon, T Vallee, F Walther
14:20	Methodology to characterize the mechanical behavior within the adhesive joints (EUR18_206) <a href="#">J Destouesse</a> (Safran, France), M Diakhiate, C Badulescu, D Thevenet, M Stackler, W Albouy, N Carrere	Interfacial chemistry of bio-based polyurethane bonded to aluminum: an investigation using X-ray photoelectron spectroscopy (EUR18_69) <a href="#">NM Itq</a> (ABC Federal University, Brazil), CAC Santos, RA Antunes, MC Salvadori, DJ dos Santos	Insights into the allyl-based epoxy resin/sulfur curing system: from the bonding of rubber and metal to rubber vulcanization mechanism (EUR18_231) <a href="#">J Cheng</a> (Beijing University of Chemical Technology, China), J Zhang, Q Lian, G Zhang	Fatigue of glued-in rods in engineering hardwood products (EUR18_201) – Part II Numerical modelling (EUR18_201) <a href="#">S Myslicki</a> , B Alter, <a href="#">T Vallée</a> (Fraunhofer IFAM, Germany), O Bletz-Mühlendorfer, F Diehl, L Bathon, R Scholz, T Vallee, F Walther
14:40	Are probabilistic methods a way to get rid of fudge factors? (EUR18_92) RD Adams, M Albiez, JR Correia, T Tannert, S Fecht, <a href="#">T Vallée</a> (Fraunhofer IFAM, Germany)	Influence of contaminants on adhesive bonding (EUR18_84) <a href="#">H Akiyama</a> (AIST, Japan), T Fukata, T Sato, S Horiuchi, C Sato	Effective model for the evaluation of compression flow of high-viscous adhesives (EUR18_134) M Müller, Y Tong, <a href="#">H Fricke</a> (Fraunhofer IFAM, Germany), T Vallée	Pre-tensioned adhesively bonded hybrid-joints with lock-bolts and high-strength bolts (EUR18_202) <a href="#">C Denkert</a> (Fraunhofer IGP, Germany), R Glienke, K-M Henkel, S Myslicki, T Vallée, H Fricke
15:00	Strength prediction of adhesively bonded single lap joints with the eXtended finite element method (EUR18_109) <a href="#">O Völkerink</a> (German Aerospace Center, Institute for Composite Structures and Adaptive Systems, Germany), J Kosmann, M Schollerer, D Holzhüter, C Hühne	Lignin based polyurethanes adhesion to native aluminum surfaces (EUR18_89) <a href="#">DJ dos Santos</a> (ABC Federal University, Brazil), LB Tavares, M Zamanzade, W Possart	Recent developments in inductive heating for fast curing of adhesively bonded connections (EUR18_138) M Adam, M Voß, <a href="#">T Vallée</a> (Fraunhofer IFAM, Germany), N Ratsch, D Kohl, S Böhm, I Van de Weyenberg, F Creemers, Y Laurent, L Mauricio, R Tillet, R Créac'hcadec	Formaldehyde-free amino resins for the wood-based industry (EUR18_159) <a href="#">F Bunzel</a> (Fraunhofer Institute for Wood Research, Germany), K Jeske
15:20	Comparison of stepped and straight design of bonded scarf joints (EUR18_114) <a href="#">D Holzhüter</a> (German Aerospace Center, Institute for Composite Structures and Adaptive Systems, Germany), J Kosmann, O Völkerink, MJ Schollerer, C Hühne	Study of vulcanization bonding process' mechanisms of natural rubber onto metallic substrates (EUR18_90) <a href="#">E Cansell</a> (ArianeGroup, France), V Langlois, F Bruno, A Aymonier	Two-dimensional correlation spectroscopy (2D-COS) analysis of polyol via liquefaction from Acacia mangium (EUR18_199) I Palle, N Hori, <a href="#">A Takemura</a> (The University of Tokyo, Japan)	Accelerated curing of large scale glued-in-rods (EUR18_209) <a href="#">N Ratsch</a> (Kassel University, Germany), M Voß, D Kohl, S Böhm, M Adam, T Vallée

15:40	Surface toughening – A concept to decrease stress peaks in bonded joints (EUR18_118) <u>M.J. Schollerer</u> (German Aerospace Center, Institute for Composite Structures and Adaptive Systems, Germany), J. Kosmann, O. Völkerink, D. Holzhtuter, C. Hühne	Assessment of fibre-matrix adhesion on glass-fiber reinforced geopolymer composite (EUR18_191) <u>LA Alves</u> (CEFET/RJ, Brazil), MD Banea, EG Vazquez, S de Barros	Mechanical properties and adhesive behavior of cyanoacrylate-graphene nanocomposites (EUR18_223) JR Cerezo Jiménez, JJ Jiménez, S Santamaria Pedrón, MA Pérez Limiñana, <u>F. Arán Ais</u> (INESCOP, Spain)	Load bearing and failure behavior of adhesively bonded glass-metal joints in façade structures (EUR18_203) M Bues, <u>C. Schuler</u> (Munich University of Applied Science, Germany), M Albiez, T Ummerhofer, S Fecht, T Vallée
16:00-16:20	COFFEE BREAK			
16:20	<b>POSTER SESSION</b>			
<b>Adhesion and surface treatments</b>				
Poster 1	Urethane nano-layers on native Al – Different deposition techniques and stability (EUR18_10)	<u>F. Eug</u> (Saarland University, Germany), C Nies, A Ahmed, C Pirro, W Possart		
Poster 2	Electrodeposited thin interfacial organosilane films for pressure welding of aluminum to steel by plastic deformation (EUR18_23)	<u>B. Duderja</u> (Universität Paderborn, Germany), A González-Orive, HC Schmidt, W Homberg, G Grundmeier		
Poster 3	Surface properties and adhesion durability of isotactic polypropylene irradiated by electron beam (EUR18_74)	<u>Y. Okumura</u> (Kobe University, Japan), T Matsumoto, T Nishino		
Poster 4	Effect of surface treatment on adhesive properties of wood-plastic composite (WPC) façade cladding (EUR18_142)	<u>B. Nečasová</u> (Brno University of Technology, Czech Republic), P Liška, J Šlanhof		
Poster 5	Adhesion behavior of polymer brushes by proton donor-acceptor interaction (EUR18_186)	<u>H. Yoshioka</u> (Kogakuin University, Japan), M Kobayashi		
Poster 6	Particle reinforced nanocomposites as a potential approach for studying mechanical interphases? (EUR18_217)	<u>C. Kern</u> (Voestalpine Stahl GmbH, Austria), B Strauß, M Rosner, L Hader-Kregl, M Nadlinger, C Paulik		
Poster 7	Study of the effect of superficial treatment and adhesive type on the adherence of pultruded composite joints (EUR18_227)	<u>AC. Passos</u> (CEFET/RJ, Brazil), EM Sampaio, S de Barros		
<b>Adhesives development</b>				
Poster 8	Crosslinking and stability of reactive polyurethane adhesive in dry conditions: Chemistry, polymer dynamics and mechanical properties (EUR18_7)	<u>B. Zimmer</u> (Saarland University, Germany), C Nies, C Schmitt, W Possart		
Poster 9	Macroscopic properties of a reactive epoxy adhesive and epoxy-alumosilicate nanocomposite (EUR18_13)	<u>MC Weidner</u> (Saarland University, Germany), K Johann, A Keller, A Haettich, W Possart		
Poster 10	Fast polymerization at low temperature of an epoxy-amine adhesive, by Infrared radiation (EUR18_70)	<u>S. Genty</u> (CIRIMAT, France), P Tingaut, M Aufray		
Poster 11	Insights into the curing and physicochemical properties of alkoxy silane functional polymers utilized in high strength adhesives and sealants (EUR18_79)	B Wenko, <u>F. Alves</u> (SABA Adhesives & Sealants, The Netherlands)		
Poster 12	Photoresponsive solid-liquid phase transition behavior of azobenzene-based poly(meth)acrylates and application to reworkable adhesives (EUR18_105)	<u>S. Ito</u> (AIST, Japan), H Akiyama, H Kihara, M Yoshida		
Poster 13	Electrically enhanced adhesive technology through nano-carbon fillers and functionalization (EUR18_235)	<u>C. Jeenitkaew</u> (Element Materials Technology, UK), P Hansen		
<b>Adhesive properties</b>				
Poster 14	The influence of curing conditions on the strength of adhesive joints (EUR18_21)	<u>A. Rudawska</u> (Lublin University of Technology, Poland)		
Poster 15	Investigation of fracture energy and process zone on the adhesive joints using ductile adhesive 2 (EUR18_82)	<u>K. Kamiyama</u> (Mitsubishi Electric Corp., Japan), M Mikuni, T Matsumoto		
Poster 16	Dynamic behavior of polyolefin thermoplastic hot melt adhesive under impact loading conditions (EUR18_154)	R Ciardiello, A Tridello, G Belingardi, <u>L. Goglio</u> (Politecnico di Torino, Italy)		
Poster 17	Development of interfacial strength test apparatus using scratch method for flexible laminated material (EUR18_165)	M Uchida, <u>Z. Miyagi</u> (Meiji University, Japan)		
Poster 18	EVA/hydrocarbon resin adhesive: a thermo-optical oscillation refraction characterization (EUR18_177)	<u>D. I. dos Santos</u> (ABC Federal University, Brazil), SE Vidotti, CAS dos Santos, LL Xavier, CO Viani, PH Lixandrão Fernando, MC Salvadori		
Poster 19	Observation of phase separation structure in adhesive (EUR18_107)	<u>A. Hayashi</u> (Tokyo Institute of Technology, Japan), Y Sekiguchi, C Sato		
Poster 20	Shear properties of structural adhesives obtained with a novel torsion machine (EUR18_195)	<u>R. IC Carbas</u> (INEGI, Portugal), M Costa, LFM da Silva		
Poster 21	Addition of silver 2-ethylhexanoate to enhance thermal and electrical conductivity in epoxy-based electrically conductive adhesive (EUR18_123)	<u>L-T. Tseng</u> (National Sun Yat-sen University, Taiwan), J-Q Ho, C-H Chen		
<b>Joint design</b>				
Poster 22	Cohesive zone optimization of tensile loaded tubular adhesive joints (EUR18_25)	LRF Ferreira, <u>RDSG Campilho</u> (ISEP, Portugal), RJB Rocha, DR Barbosa		
Poster 23	Joint geometry optimization for aluminium adhesive bonds under tensile loads (EUR18_27)	NGC Barbosa, <u>RDSG Campilho</u> (ISEP, Portugal), FJG Silva, RDF Moreira		

<b>Poster 24</b>	Strength of hybrid laminates metal-carbon fibre joints with different lay-up configurations ( <b>EUR18_44</b> )	<a href="#">RJC Carbas</a> (INEGI, Portugal), DG dos Santos, LFM da Silva
<b>Poster 25</b>	Prediction of adhesion failure of bonded joints using 3-point bending test and stress-energy coupled criterion ( <b>EUR18_59</b> )	<a href="#">TV Birro</a> (ISAE-SUPAERO, France), E Paoissien, M Aufray, F Lachaud
<b>Poster 26</b>	Influence of technological procedures on mechanical properties of bonded joints ( <b>EUR18_143</b> )	<a href="#">P Liška</a> (Brno University of Technology, Czech Republic), B Nečasová, J Šlanhof
<b>Poster 27</b>	Thermal deformation of dissimilar materials bonded adhesively ( <b>EUR18_193</b> )	<a href="#">N He</a> (Tokyo Institute of Technology, Japan), C Sato, Y Sekiguchi
<b>Poster 28</b>	Adhesion on hybrid polymeric materials produced by DDM ( <b>EUR18_198</b> )	<a href="#">AM Pereira</a> (Polytechnic Institute of Leiria, Portugal), MR Silva, PNB Reis, JAM Ferreira
<b>Poster 29</b>	Functionally graded joints with two-parts acrylic adhesive ( <b>EUR18_214</b> )	C Sato, <a href="#">M Nakanouchi</a> (Tokyo Institute of Technology, Japan), K Haraga, H Uno
<b>Durability</b>		
<b>Poster 30</b>	Influence of hygrothermal aging on the fatigue behaviour of similar and dissimilar adhesive joints for the automotive industry ( <b>EUR18_49</b> )	<a href="#">JJM Machado</a> (INEGI, Portugal), EAS Marques, AQ Barbosa, LFM da Silva
<b>Poster 31</b>	Fatigue life prediction of adhesive bonded joints under mixed mode loading conditions ( <b>EUR18_76</b> )	<a href="#">M Costa</a> (INEGI, Portugal), R Goyal, M El-zein, LFM da Silva
<b>Poster 32</b>	Effect of temperature on the behaviour of multi-material adhesive joints for the automotive industry ( <b>EUR18_194</b> )	<a href="#">MQ dos Reis</a> (CEFET/RJ, Brazil), RJS Carbas, LFM da Silva, MD Banea
<b>Poster 33</b>	Influence of temperature on mixed adhesive joints under impact conditions ( <b>EUR18_196</b> )	<a href="#">JJM Machado</a> (INEGI, Portugal), EAS Marques, LFM da Silva
<b>Poster 34</b>	Impact strength of composite joints for the automotive industry ( <b>EUR18_197</b> )	<a href="#">EAS Marques</a> (INEGI, Portugal), PM Gamarra, JJM Machado, LFM da Silva
<b>Non-destructive testing</b>		
<b>Poster 35</b>	Visualization of dis-bonding in adhesive area through mechanoluminescence ( <b>EUR18_216</b> )	<a href="#">N Terasaki</a> (AIST, Japan), Y Fujio, Y Sakata
<b>Applications</b>		
<b>Poster 36</b>	Advanced structural 2K epoxy adhesives for construction and refurbishment ( <b>EUR18_153</b> )	<a href="#">R Xu Rabl</a> (Sika Technology AG, Switzerland), U Gerber, J Finter, S Kelch
<b>Poster 37</b>	Durability of the structural adhesive joints for façade applications exposed to a modified cataplasma test ( <b>EUR18_14</b> )	<a href="#">K Machalická</a> (Czech Technical University in Prague, Czech Republic), M Vokáč, M Eliášová
<b>19:00</b>	<b>RECEPTION (ROOFTOP Bar Hotel Mundial)</b>	

<b>Thursday 6 September 2018</b>				
	<b>Session 4A – Adhesion and surface treatments IV (Chair: J Vrenken)</b>	<b>Session 4B – Fracture mechanics (Chair: N Carrere)</b>	<b>Session 4C – Adhesive properties IV (Chair: V Nassiet)</b>	<b>Session 4D – Durability - Effect of temperature (Chair: E Marques)</b>
	<b>Auditorium</b>	<b>Room 02.1</b>	<b>Room 02.2</b>	<b>Room 02.3</b>
<b>8:40</b>	Interfacial structure between deuterated and non-deuterated polyamide 66 ( <b>EUR18_75</b> ) <a href="#">N Shimoura</a> (Kobe University, Japan), T Matsumoto, T Nishino	Fracture toughness of rubber/stainless steel bonding using nanothick adhesive ( <b>EUR18_53</b> ) <a href="#">MK Budzik</a> (Aarhus University, Denmark), S Heide-Jørgensen, RK Møller, KB Buhl, SU Pedersen, K Daasbjerg, M Hinge	The importance of a bondline fillet for the Thick Adherend Shear Test ( <b>EUR18_86</b> ) LD Vaughn, FJ Guild, <a href="#">RD Adams</a> (University of Bristol, UK)	Effect of environmental ageing at lower and sub-zero temperatures on adhesive joint strength ( <b>EUR18_20</b> ) <a href="#">A Rudawska</a> (Lublin University of Technology, Poland), JW Sikora, M Müller, P Valasek
<b>9:00</b>	Two part polyurethane adhesives for bonding thermoplastic and thermoset reinforced plastics ( <b>EUR18_94</b> ) <a href="#">S Grunder</a> (DOW Europe GmbH, Switzerland), S Schmatloch, A Lutz	On toughness of heterogenous interfaces ( <b>EUR18_52</b> ) <a href="#">MK Budzik</a> (Aarhus University, Denmark)	Digital image correlation strain measurement of thick adherend shear test specimen joined with an epoxy film adhesive ( <b>EUR18_100</b> ) <a href="#">J Kosmann</a> (German Aerospace Center, Germany), O Völkerink, M J Schollere, D Holzthüter, C Hühne	Effects of infrared radiation on thermal, mechanical and adherence properties of an epoxy-amine adhesive by using Design Of Experiment (DOE) ( <b>EUR18_71</b> ) <a href="#">S Genty</a> (CIRIMAT, France), P Tingaut, M Aufray
<b>9:20</b>	Improvement of silicone rubber/metal assembly: Influence of primer mixture and metal roughness ( <b>EUR18_96</b> ) F Sosson, L Belec, FX Perrin, <a href="#">A Girard</a> (Université de Toulon-La Garde, France)	Experimental study on the fracture behaviour of hyperelastic adhesive joints subjected to mixed-mode I+III loading ( <b>EUR18_204</b> ) L Loh, I Kididane, <a href="#">S Marzi</a> (Technische Hochschule Mittelhessen, Germany)	Chemical composition of melamine-urea-formaldehyde (MUF) resins assessed by near-infrared (NIR) spectroscopy ( <b>EUR18_207</b> ) <a href="#">MS Gonçalves</a> (University of Porto, Portugal), NT Paiva, JM Ferra, JM Martins, LH Carvalho, FD Magalhães	The effect of space environment on the mechanical properties of structural adhesives ( <b>EUR18_133</b> ) <a href="#">J Zimmermann</a> (RWTH Aachen University, Germany), MZ Sadeghi, KU Schroeder
<b>9:40</b>	Unravelling the two fundamental adhesion mechanisms of nanoporous anodic aluminium oxides (AAO) with epoxy ( <b>EUR18_97</b> ) <a href="#">ST Abrahami</a> (Vrije Universiteit Brussel, Belgium), JMM de Kok, VC Gudla, K Marcoen, T Hauffman, R Ambat, JMC Mol, H Terry	Fracture mechanics of a rubber tube – metal cord inflation test ( <b>EUR18_17</b> ) <a href="#">K Kane</a> (University of Bordeaux, France), J Jumel, F Lallet, A Mbiakop-Ngassa, J-M Vacherand, MER Shanahan	Development of two-component structural adhesive for bonding of metals and polymeric composites ( <b>EUR18_77</b> ) S-N Wang, Y Li, Y-M Guo, B Cai, <a href="#">Z-X Liu</a> (Zhengzhou University, China), P-C Wang	Structural adhesive bonding of galvanized steels: Performance before and after hydrothermal ageing ( <b>EUR18_190</b> ) <a href="#">M Nadlinger</a> (CEST GmbH, Austria), L Hader-Kregl, C Kern, M Rosner, R Aichinger, C Hager-Roisler, M Fleischanderl, C Paulik

10:00	Cleaning and activating HDG coil-steel by blasting with primer-doped carbon dioxide snow (EUR18_99) <u>L Götz</u> (University of Kaiserslautern, Germany), PL Geiß	Coupling between adhesion and energy dissipation in laminated glass (EUR18_210) <u>P Fourton</u> (PSL University, France), N Taccoen, M Ciccotti, E Barthel	Mechanoluminescence visualization of crack propagating and fracture frontline during DBC test in similar and dissimilar material bonding (EUR18_140) <u>N Terasaki</u> (AIST, Japan), Y Fujio, Y Sakata, S Horiuchi, H Akiyama	Adhesive joining of highly filled PP/graphite bipolar plates as a sealing method in fuel cells (EUR18_219) <u>P Rzaczkowski</u> (Leibniz-Institut für Polymerforschung Dresden e.V., Germany), B Krause, A Müller, M Lucia
10:20	Surface modification through Friedel-Crafts reaction and epoxidation for adhesion between poly(ether ether ketone) and epoxy adhesives (EUR18_106) <u>T Matsumoto</u> (Kobe University, Japan), A Miyagaki, T Nishino	Cohesive failure of hyperelastic adhesive joints by cavitation (EUR18_218) <u>P Weißgraeber</u> (Robert Bosch GmbH, Germany), K Bühler	Impact of the synthesis processes on urea formaldehyde resins performance (EUR18_179) <u>C Goncalves</u> (University of Porto, Portugal), J Pereira, N Paiva, J Ferra, J Martins, F Magalhães, A Barros-Timmons, L Carvalho	
10:40-11:00	COFFEE BREAK			
	<b>Session 5A – Coatings (Chair: F Arán Aís)</b>	<b>Session 5B – Durability - Effect of water (Chair: A Takemura)</b>	<b>Session 5C – Impact loading (Chair: C Sato)</b>	<b>Session 5D – Repair (Chair: S de Barros)</b>
	<b>Auditorium</b>	<b>Room 02.1</b>	<b>Room 02.2</b>	<b>Room 02.3</b>
11:00	Determination of coating properties by using analytical centrifugation (EUR18_115) <u>J Rietz</u> (LUM GmbH, Germany), D Lerche, S Hielscher, D Grunwald, U Beck	Lifetime prediction and safety of adhesively bonded joints under detrimental service conditions (EUR18_54) <u>K Groß</u> (University of Kaiserslautern, Germany), PL Geiß	Impact deformation of an adhesive layer measured with tensile Split-Hopkinson bar apparatus (EUR18_192) C Sato, <u>A Hayashi</u> (Tokyo Institute of Technology, Japan), Y Sekiguchi	Debonding of adhesive joints by means of microwave and induction heating processes (EUR18_95) <u>R Ciardiello</u> (Politecnico di Torino, Italy), F Litterio, G Belingardi, B Martorana, M Zanetti, V Brunella
11:20	Structural bonding of steel structures for mobile ACE coated with weather resistant single-layer e-coats (MonoBond) (EUR18_32) <u>D Estephan</u> (University of Kassel, Germany), M Kahlmeyer, R Nothhelfer-Richter	Performance of adhesively bonded hot-dip galvanized steel sheets across different corrosion tests (EUR18_58) <u>L Hader-Kregl</u> (CEST GmbH, Austria), M Nadlinger, C Kern, M Rosner	Effect of low velocity impact and thermal-oil ageing on mechanical properties of composite joints bonded with a ductile adhesive (EUR18_178) <u>T Akderya</u> (Katip Çelebi University, Turkey), M Çevik, O Sayman	Restoring cultural heritage: The development of adhesives for the consolidation of flaking and fragile paint (EUR18_65) CA Del Grosso, <u>JA Poulis</u> (Delft University of Technology, The Netherlands), ER de la Rie
11:40	Heating behavior and adhesion performance of induction responsible multilayered thermoplastic polyurethane adhesive film (EUR18_19) ST Oh, GN Kim, YS Kwon, TK Lee, MJ Moon, <u>MY Shon</u> (Pukyong National University, Korea)	Accelerated degradation method for single-lap joints and metal-plastic assemblies using pressure vessels with heat and moisture (EUR18_211) <u>M Funabashi</u> (AIST, Japan), F Ninomiya hor, T Shimada	Strain rate and temperature dependent behaviour of structural adhesive joints for the automotive industry (EUR18_48) <u>EAS Marques</u> (INEGI, Portugal), JJM Machado, PDP Nunes, LFM da Silva	Experimental and 3-D non-linear stress analysis of adhesively bonded curved pipe lap joints (EUR18_215) <u>S Çitil</u> (Adiyaman University, Turkey), İ Bozkurt, MD Aydın
12:00	Molecular adhesion studies on ZnO nanorod film coated stainless steel (EUR18_16) <u>D Meinderink</u> (University of Paderborn, Germany), AG Drive, G Grundmeier	Durability and flammability evaluation of SGA structural adhesives joint consisting of thick adhesive layer for shipbuilding (EUR18_128) <u>T Iwata</u> (National Institute of Maritime, Japan), H Hayashibara	A robust material model for adhesive bonding under high speed impact (EUR18_212) S Treutenaere, <u>B Bourel</u> (LAMIH Valenciennes, France), F Lauro, W Albouy, R Ortiz	Tensile and shear properties of epoxy bonding adhesives at elevated temperatures - influence on the bond behaviour of CFRP strengthening systems (EUR18_221) MG Roquette, JP Firmo, <u>JR Correia</u> (Universidade de Lisboa, Portugal), AS Azevedo
12:20	Growth, deformability and adhesion of metallic thin films deposited on elastomeric substrates (EUR18_124) <u>J Schweitzer</u> (Institut de Science des Matériaux de Mulhouse, France.), F Bally-Le Gall, T David, F Rouillard, A Beziat, V Roucoules, L Vonna	Oxidative mechanisms of brass in a confined environment: application to the durability of the rubber to metal bonding in tires (EUR18_152) <u>S Benart</u> (University of Bordeaux, France), M Touzet-Cortina, J Jumet, J El Yagoubi	Development of a dynamic shear test for bonded joint using adhesive behavior numerical simulation (EUR18_205) W Albouy, <u>M Stackler</u> (Safran, France), N Carrere, M Lecomte	Using blister test to predict the failure pressure in bonded composite repaired pipes (EUR18_161) <u>S de Barros</u> (CEFET/RJ, Brazil), B Fadhil, F Allia, J Diop, P Casari, PF Jacquemin
12:40	Multilayer thin coatings for corrosion protection of aluminium alloy AA2024-T3 (EUR18_147) <u>J Witt</u> (Federal Institute for Materials Research and Testing (BAM), Germany), A Almallá, O Özcan	Surface pre-treatment effect on the adhesion and durability of a steel-epoxy interface (EUR18_213) <u>JPR van Dam</u> (TU Delft, The Netherlands), H Terryn, JMC Mol		
13:00-14:00	LUNCH BREAK			



	Session 6A – Adhesion and surface treatments V (Chair: M Shanahan)	Session 6B – Production issues (Chair: JC del Real)	Session 6C – Durability - Fatigue I (Chair: L Goglio)	Session 6D – Hybrid joints (Chair: T Vallée)
	Auditorium	Room 02.1	Room 02.2	Room 02.3
14:00	Investigation of the surface treatment effects for polypropylene surface (EUR18_108) <u>T Sato</u> (AIST, Japan), T Miyamae, H Akiyama, S Horiuchi	Influence of production parameters on the mechanical behaviour of composite/metal specimens assembled via adhesive bonding technology (EUR18_43) <u>FC Bôdeker</u> (ENSTA Bretagne, France), G Stamoulis, T Bonnemains, E Lolive, S Marzi	Development of a cohesive zone element for adhesive joints subjected to fatigue and humidity degradation (EUR18_47) <u>M Costa</u> (INEGI, Portugal), G Viana, LFM da Silva, RDSG Campilho	Stiffness and strength analysis of hybrid adhesive bonded – spot welded sandwich samples by means of virtual FE testing (EUR18_38) <u>J Weiland</u> (RWTH Aachen University, Germany), S Debruyne, D Vandepit, B. Marx, A Schiebahn, U Reisgen
14:20	Effect of high concentrations of admixed water in an atmospheric pressure plasma jet system onto the surface of various polymers (EUR18_122) <u>M Kehrer</u> (Johannes Kepler University, Austria), A Hinterreiter, J Duchoslav, A Mehic, T Stehrer, D Stifter	Low-cost natural binder for particle boards production: study of manufacture conditions (EUR18_162) <u>AM Ferreira</u> (University of Porto, Portugal), J Pereira, M Almeida, J Ferra, N Paiva, J Martins, LH Carvalho, FD Magalhães	Effect of stress concentrations on the fatigue behaviour of structural adhesives (EUR18_55) <u>VC Beber</u> (Fraunhofer IFAM, Germany), B Schneider, M Brede	Vaporizing foil actuator weld bonding (EUR18_171) <u>B J Ufferman</u> (The Ohio State University, USA), MJ Barker, A Vivek, GS Daehn
14:40	Thermal adhesion by polymer brushes with various molecular weight distribution and graft density (EUR18_126) <u>H Yoshioka</u> , Y Aoki, K Nonaka, <u>M Kobayashi</u> (Kogakuin University, Japan)	Hydro-abrasion wear of metering systems by conveying high-viscosity adhesives (EUR18_15) <u>H Fricke</u> (Fraunhofer IFAM, Germany), B Mayer	Fatigue shear strength of hybrid interfaces press-fitted and bonded with Loctite 638 (EUR18_73) <u>M Ragni</u> (University of Modena and Reggio Emilia, Italy), D Castagnetti, E Dragoni	Hybrid connections in supporting structures of wind turbines (EUR18_131) <u>M Albiez</u> (Karlsruhe Institute of Technology, Germany), S Myslicki, T Vallée, H Ehard, C Schuler, T Ummerhofer
15:00	UV induced surface grafting based on carbene (EUR18_232) <u>F Gao</u> (Beijing University of Chemical Technology, China), H Sun, J Cheng, Y Li, JY Zhang	Open time studies with a production near test setup on polyurethane adhesives for industrial applications (EUR18_234) <u>S Mahnel</u> (BMW AG, Germany), F Bannert, G Grundmeier	Monitoring the fatigue crack growth behaviour of composite joints using in situ 2D-digital image correlation (EUR18_83) <u>T Thäslar</u> (Bundeswehr University Munich, Germany), J Holtmannspötter, HJ Gudladt	Bonding performance after aging of fusion bonded hybrid joints (EUR18_63) <u>K Lippky</u> (Technische Universität Braunschweig, Germany), D Blass, K Dilger
15:20	Laser welding of aluminum-polyamide assemblies: influence of aluminum surface pre-treatment on the joint strength (EUR18_160) <u>J Bardou</u> (Luxembourg Institute of Science and Technology, Luxembourg), A Al Sayyad, D Del Frari, P Hirchenhahn, L Houssiau, P Plapper	Process parameters/ performances relationship for "dry" surface preparation (EUR18_31) <u>E Chauray</u> , N Cuvillier, <u>P Lespade</u> (IRT Saint Exupéry, France), B Martin, A Mercier	Durability assessment of laser treated aluminium bonded joints (EUR18_117) <u>F Musiani</u> (Università degli Studi di Parma, Italy), F Moroni, C Favi, A Pirondi	Constructive design of bonded FRP mixed joints under consideration of edge effects (EUR18_93) <u>J Göddecke</u> (University of Paderborn, Germany) G Meschut, D Teutenberg
15:40	Tailoring adhesion between 3D printed patterns and textiles (EUR18_163) <u>V Potier</u> (INSA Lyon, France), J Duchet, JF Gérard	A comparative study on optical bonding of glass-ceramics (EUR18_226) <u>H Yetgin</u> (Middle East Technical University, Turkey), TO Fenercioglu, OC Aktas, T Yalcinkaya	Integration of electric fields to tune the adhesion of micropatterned adhesives (EUR18_51) <u>V Chopra</u> (Leibniz Institute for New Materials, Germany), R Hensel, E Arzt	
16:00-16:20	COFFEE BREAK			
	Session 7A – Adhesion and surface treatments VI (Chair: H Poulis)	Session 7B – Applications I (Chair: F Gilbert)	Session 7C – Durability – Fatigue II (Chair: R Créac'hcadec)	
	Auditorium	Room 02.1	Room 02.2	
16:20	The effect of cold atmospheric plasma treatment on the structural adhesive bond performance of 2024 aluminium (EUR18_167) <u>T Li</u> (TWI Ltd, UK), DF Williams, EJC Kellar, GW Critchlow	Project SYSCO (EUR18_39) <u>N Merlinge</u> (ENIT, France), B Hassounie-Rhabbour, T Mérian, A Visse, V Nassiet	Fatigue behaviour of hybrid bonded joints (EUR18_119) <u>F Moroni</u> (Università degli Studi di Parma, Italy)	
16:40	STEM-EDX/EELS simultaneous analysis of metal/plastic joint interfaces for the investigation of adhesion mechanism (EUR18_168) <u>S Horiuchi</u> (AIST, Japan), H Hakukawa	International qualification for adhesive bonding personnel assures quality and reliability of adhesive bonded parts (EUR18_57) <u>T Rosado</u> (EWF, Portugal), A Almeida, L Quintino, E Assunção	Fatigue assessment of multiaxial loaded adhesively bonded joints (EUR18_130) <u>G Rybar</u> (Technische Universität Darmstadt, Germany), J Baumgartner	

17:00	Towards new coupling agents based on Lewis acid/base functionalized calixarenes (EUR18_174) RA Septelean, D Grec, <a href="#">GN Nemes</a> (Babes-Bolyai University, Romania)	Use of adhesives in automotive industry: current applications and opportunities ahead (EUR18_68) <a href="#">P d'Herlincourt</a> (RENAULT, France), M Ragazzini, A Fleury	Mixed-mode fatigue lifetime prediction tool for adhesively bonded joints (EUR18_136) <a href="#">MZ Sadeghi</a> (RWTH Aachen University, Germany), J Zimmermann, A Gabener, KU Schroeder	
17:20	Adhesion of functionally graded epoxy adhesives by a probe tack test (EUR18_235) O Tramis, B Hassoune-Rhabbour, M Fazzini, <a href="#">V Nassiet</a> (Toulouse University, France)	Durability assessment of adhesives systems for "Bond & Bolt" gas pipe saddles (EUR18_125) T Chapman, <a href="#">S Millington</a> (ARTIS, UK), C Webb	Ultrasonic Very High Cycle Fatigue (VHCF) tests on a cyanoacrylate and on a high strength epoxy adhesive (EUR18_157) A Tridello, DS Paolino, <a href="#">L Goglio</a> (Politecnico di Torino, Italy), G Chiandussi, M Rossetto	
17:40	New interfacial agents for enhanced interfacial shear strength in PPS/basalt composites (EUR18_176) <a href="#">B Gaumond</a> (INSA Lyon, France), S Livi, J Duchet	Towards an European code regulating adhesively bonded connections of G-FRP structures for civil engineering? (EUR18_151) T Vallée, M Adam, JF Caron, <a href="#">JR Correia</a> (University of Lisbon, Portugal), L Ascione	The effect of environment and fatigue loading on the mechanical behaviour of TEPs-modified adhesives (EUR18_236) <a href="#">MD Banea</a> (CEFET/RJ, Brazil), LFM da Silva, R Carbas, S de Barros, LFG de Souza	
18:00	Adhesion between addition curing silicones and aluminum substrates (EUR18_181) <a href="#">A Kochanke</a> (Robert Bosch GmbH, Germany), J Nagel, C Uffing, A Hartwig	Surface preparation and geometric considerations for structural bonding of steel (EUR18_228) <a href="#">N Tortorella</a> (Deere & Company, USA), RK Goyal, R Athikary, M El-zein		
20:00	<b>EURADH/CLBA 2018 BANQUET (Forte de São Julião)</b>			

## Friday 7 September 2018

Adhesion Innovation Award				
Auditorium				
8:40	Composite pillars with a tunable interface for adhesion to rough substrates (EUR18_230) <a href="#">R Hensel</a> (Leibniz Institute for New Materials, Germany)			
	<b>Session 8A – Adhesives development III (Chair: M Aufray)</b>	<b>Session 8B – Non-destructive testing (Chair: RD Adams)</b>	<b>Session 8C – Wood bonding (Chair: H Fricke)</b>	
	<b>Auditorium</b>	<b>Room 02.1</b>	<b>Room 02.2</b>	
9:00	New approach to design epoxy based adhesive tapes (EUR18_148) <a href="#">R Friedland</a> (Lohmann GmbH & Co. KG, Germany), M Welteroth	Structural health monitoring in adhesively bonded CFRP joints with fibre optic sensors (EUR18_33) <a href="#">N Grundmann</a> (Fraunhofer IFAM, Germany), K Brune	Effect of a thermal posture on the micro- and macromechanical properties of polyurethane bonded wood (EUR18_110) <a href="#">C Winkler</a> (University of Applied Sciences Eberswalde, Germany), U Schwarz, J Konnerth	
9:20	Asphaltenes as fillers for epoxy resins (EUR18_146) <a href="#">V Ya Ignatenko</a> (AV Topchiev Institute of Petrochemical Synthesis, Russia), AV Kostyuk, S V Antonov, SO Ilyin	Design and preparation of dye-filled microcapsules for health monitoring in adhesive bonds (EUR18_41) <a href="#">M Kahlmeyer</a> (University of Kassel, Germany), A Winkel, S Boehm	Fracture mechanics based joint capacity prediction of glued-in rods with hardwood (EUR18_91) S Myslicki, T Vallée, O Bletz-Mühdorfer, F Diehl, I Limeira, C Lavarec, <a href="#">R Créachcadec</a> (IRD, France)	
9:40	New tough body shop adhesives for light weight body structure bonding (EUR18_129) <a href="#">E Koch</a> (Dow Europe GmbH, Switzerland), A Lutz	Analyzing the effects of embedding Fibre Bragg Grating sensors into structural adhesive joints (EUR18_62) <a href="#">S Fevery</a> (University of Leuven, Belgium), S Debruyne, H Hallez, D Vandepilte	A new creep test for non-structural wood adhesives (EUR18_155) B Pizzo, F Bernardini, <a href="#">F Chiozza</a> (Vinavit SpA, Italy)	
10:00	Epoxidation of kraft lignin: An alternative to bisphenol A in the synthesis of epoxy adhesives (EUR18_172) <a href="#">CL Costa</a> (ABC Federal University, Brazil), JR Gouveia, DJ dos Santos	Fresnel reflection based fiber optic for study of the polymerisation of bonded joints (EUR18_78) <a href="#">R Grangeat</a> (Université de Nantes, France), M Girard, C Lupi, F Jacquemin		



10:20	Rational design of epoxy/poly-siloxane adhesive with excellent damping properties (EUR18_233) <u>J.Y. Zhang</u> (Beijing University of Chemical Technology, China), J. Cheng, Y. Li, W.P. Duan, P.B. Zhang	Inspection of surface contamination using LIBS for adhesive bonding of multiple materials (EUR18_81) <u>T. Sato</u> (AIST, Japan), Y. Kawaguchi, H. Akiyama, H. Ohmura		
10:40-11:00	COFFEE BREAK			
	<b>Session gA – Applications II (Chair: N Tortorella)</b>	<b>Session gB – Joint design IV (Chair: C Sato)</b>	<b>Session gC – Bioadhesives (Chair: D dos Santos)</b>	
	<b>Auditorium</b>	<b>Room 02.1</b>	<b>Room 02.2</b>	
11:00	Pre-fixation for booster 1C polyurethane applications (EUR18_144) <u>F.M. Altenwegner</u> (Sika Automotive GmbH, Germany), D. Urbach	What has the single lap shear joint done for us? (EUR18_165) D.F. Williams, <u>F.J.C. Kellar</u> (TWI Ltd, UK)	Fully biobased structural adhesives (EUR18_34) <u>A. Hartwig</u> (Fraunhofer IFAM, Germany), K. Richter, M. Blumenstein	
11:20	Rubber gasket bonding for plate heat exchangers - how to replace an adhesive that has been in use for +50 years (EUR18_150) <u>J. Anehamre</u> (Alfa Laval Lund AB, Sweden)	Mechanical properties of lap shear joint bonded with two-part epoxy adhesive (EUR18_141) <u>K. Naito</u> (National Institute for Materials Science, Japan), H. Oguma, H.B. Kim	Preparation of biodegradable functionalized polyesters to be applied as surgical adhesives (EUR18_101) <u>T. Cernadas</u> (University of Coimbra, Portugal), F.M.M. Gonçalves, S.P. Miguel, I.J. Correia, P. Ferreira	
11:40	Shear strength of bed joints of glass brick masonry (EUR18_156) <u>Z. Sokol</u> (Czech Technical University in Prague, Czech Republic), M. Eliášová, J. Fila	Numerical modelling of double lap joint assemblies using interface elements (EUR18_180) <u>O. Nemes</u> (Technical University of Cluj-Napoca, Romania), A.E. Tiuc, M. Platon	Development of natural-based adhesives from lignocellulosic biomass (EUR18_103) J.C. Bordado, A.C. Marques, E.R. Silva, D. Gonçalves, M. Neves, M.M. Mateus, S. Matos, A.C. Cardoso, M.R. Costa, <u>B. Galhano dos Santos</u> (CERENA/IST, Portugal)	
12:00	Adhesive joints for structural applications – glass column subjected to compression (EUR18_158) <u>M. Eliášová</u> (Czech Technical University in Prague, Czech Republic), R. Kalamar, Z. Sokol	Modelling of bonded joints with flexible adhesives (EUR18_183) A. Chiminelli, <u>C. Valero</u> (ITAINNOVA, Spain), E. Duvivier, M. Lizaranzu, C. López, M. Canales	Enhanced bonding strength of hydrophobically-modified fish gelatin-based tissue adhesive (EUR18_113) <u>T. Taguchi</u> (National Institute for Materials Science, Japan), R. Mizuta	
12:20	Evaluation of the Von Mises stress field in bonded tiling ceramics as a function of elastic modulus of the tile adhesive and joint grout mortars (EUR18_169) <u>L. Silva</u> (Saint-Gobain Weber, Portugal), P. Sequeira, F. Melo, C. Lopes	Epoxy-aluminium scarf joints strength under multiaxial loadings (EUR18_184) <u>A.M. Pereira</u> (Polytechnic Institute of Leiria, Portugal), P.N.B. Reis, J.A.M. Ferreira		
12:40	Comparison of the deformation induced by local damage mechanisms of a deep drawing and a high strength temper rolled galvanized steel (EUR18_175) <u>E. Gilbert</u> (ArcelorMittal Global R&D, France), D. Jacquet, J.M. Maigne, J. Legendre, R. Créac'hcadec, A. Tanguy, S. Hallais and E. Héripé	Joining-technique selection for complex multi-material structures focusing on the mechanical behaviour of adhesive joints (EUR18_139) S.P. Sikora, M. Brodbeck, <u>T. Behling</u> (DLR eV, Germany)		
13:00	<b>EURADH/CLBA 2018 Best papers awards and Closing (Auditorium)</b>			
13:15-14:00	LUNCH BREAK			