



Programme of IAA2026

Author underlined → presenting author

* Keynote lecture

Thursday 5 March 2026	
8:40	IAA 2026 Opening (Salão Nobre)
9:00*	Chemistry drives innovation in automotive design and manufacturing (IAA26_18) <u>A Lutz</u> (Dupont, Switzerland)
	Session 1 – Adhesion and surface treatments (Chair: EJC Kellar and K Naito)
	Room Salão Nobre
9:40	Wetting and Adhesion – Why scale matters (IAA26_43) <u>E Kellar</u> (TWI, UK)
10:00	Application of plasma technology to enhance the adhesion between wood and MUF adhesive (IAA26_34) <u>M Sernek</u> (University of Ljubljana, Slovenia), K Kotnik
10:20	Industrial transferability of laser surface preparation parameters for adhesive bonding (IAA26_37) <u>J Reynis</u> (IRT Saint Exupéry, France), S Kirchner, L Ferres, S Ŭnaldi, M Péron, N Cuvillier, J Lecomte
10:40-11:00	COFFEE BREAK (Room Capitulo)
	Session 2 – Manufacture (Chair: K Dilger and T Vallée)
	Room Salão Nobre
11:00	Laser-based direct joining of thermoplastics with thermoset CFRP lightweight structures for industrial applications (IAA26_49) <u>S Hartwig</u> (Technische Universität Braunschweig, Germany), K Dilger
11:20	Influence of surface roughness on adhesive flow in manufacturing bonded joints (IAA26_16) <u>D Garcia</u> (INEGI, Portugal), A Akhavan-Safar, PMS Almeida, RJC Carbas, EAS Marques, J Hrachova, H Leenders, AMP Afonso, LFM da Silva
11:40	Analysis of adhesive flow under weld-bonded studs in automotive assemblies (IAA26_39) <u>A Tibaudeau</u> (ENSTA, France), T Fkyerat, L Sohier, R Créac’hcadec
12:00	Laterally resolved control of wettability and adhesive flow on polymers by femtosecond laser pretreatment (IAA26_40) <u>M Kahlmeyer</u> (University of Kassel, Germany), M Veltrup, A Winkel, U Specht, C Florian, S Böhm
12:20	Temperature-assisted curing of adhesive joints between timber and precast concrete elements (IAA26_51) <u>T Hilse</u> (Technische Universität Braunschweig, Germany), K Dilger

12:40	Inductive rapid pre-curing of epoxy based adhesives with high glass transition temperature (IAA26_57) <u>G Çelebi</u> (Technische Universität Braunschweig, Germany), C Schult, A Fricke, S Hartwig, K Dilger
13:00-14:00	LUNCH BREAK (Restaurant)
	Room Salão Nobre
14:00*	Achieving both “strength and long-term stability” and “de-bonding and re-bonding” for vehicle body circularity (IAA26_19) <u>N Terasaki</u> (National Institute of Advanced Industrial Science and Technology (AIST), Japan)
	Session 3 – Debonding adhesives (Chair: M Olive and C Sato)
	Room Salão Nobre
14:40	Debonding-on-demand adhesives: The 3-in-1 solution for repair, rework, and recycling (IAA26_33) <u>V Leon</u> (Lohmann GmbH & Co. KG, Germany)
15:00	Debonding primer for the circularity of structural bonded joints (IAA26_44) <u>M Olive</u> (Rescoll, France), R Szymanski
15:20	DebondING on demand technology for efficient recycling and reuse of CFRP composites (IAA26_36) O Kachouri, S Ozyigit, <u>D Ruch</u> (Luxembourg Institute of Science and Technology (LIST), Luxembourg), L Kirkayak, J Bardon, A Laachachi
15:40	Adhesives formulated with thermo-expandable particles for reversible joining in footwear: Material compatibility and disassembly performance (IAA26_60) MA Moyano-Vallejo, <u>MP Carbonell-Blasco</u> (Footwear Technology Centre, Spain), C Hernández-Fernández, MD Romero-Sánchez, E Orgilés-Calpena
16:00-16:20	COFFEE BREAK (Room Capítulo)
	Session 4 – Adhesive properties (Chair: RD Adams and J Que)
	Room Salão Nobre
16:20	Measurement of static and impact strength of adhesively bonded joints under combined stress conditions (IAA26_48) A Hayato, K Ikeda, Y Sekiguchi, <u>C Sato</u> (Institute of Science Tokyo, Japan)
16:40	Alginate/cellulose adhesive for the paper edge bonding application (IAA26_23) <u>LW Jenner</u> (Hochschule der Medien, Germany), V Jansen, M Herrenbauer
17:00	Mode I crack growth behavior of epoxy-vitrimer-based CFRP (IAA26_22) <u>K Naito</u> (National Institute for Materials Science (NIMS), Japan), Y Nakamura, S Ando, J Koyanagi, K Shirasu, M Watanabe, T Suzuki, H Kuwahara
17:20	Direct generation of cohesive zone law data of adhesives: design and validation of a unified specimen (IAA26_6) <u>DS Correia</u> (INEGI, Portugal), EAS Marques, RJC Carbas, LFM da Silva
17:40	Experimental characterization of the cyclic creep behaviour of acrylic pressure-sensitive adhesives (IAA26_2) <u>BD Simões</u> (INEGI, Portugal), EAS Marques, RJC Carbas, S Maul, P Stihler, P Weißgraeber, LFM da Silva
18:00	Fatigue properties of adhesive-bonded aluminum-wood joints (IAA26_58) <u>E Graf</u> (Graz University of Technology, Austria), M Aguirregoicoa Ocerin, C Sommitsch, J Domitner

18:30	Poster session and RECEPTION (Room Capítulo)	
Adhesion and surface treatments		
Poster 1	Fracture of pressure-sensitive adhesives through interfacial failure characterized by DCB and peel testing (IAA26_3)	BD Simões (INEGI, Portugal), VCMB Rodrigues, EAS Marques, RJC Carbas, S Maul, P Stihler, P Weißgraeber, LFM da Silva
Poster 2	Hot and heavy EVs, a deep dive into adhesion promoters for sealer and underbody selection (IAA26_32)	TM Elder, NB Huff (Sunstar Engineering Americas, USA)
Manufacture		
Poster 3	Rheology effects on adhesive flow and substrate deformation in manufacturing polypropylene-aluminium adhesive joints (IAA26_17)	D Garcia (University of Porto, Portugal), A Akhavan-Safar, RJC Carbas, EAS Marques, J Hrachova, H Leenders, AMP Afonso, LFM da Silva
Debonding adhesives		
Poster 4	Characterization and debonding of adhesive tapes for prismatic cell-to-cell bonding (IAA26_4)	VCMB Rodrigues (INEGI, Portugal), EAS Marques, RJC Carbas, LFM da Silva
Poster 5	Debonding-on-demand enabled by vitrimer benzoxazines (IAA26_63)	PHE Fernandes, VC Beber (Fraunhofer IFAM, Germany), C Nagel, K Haag
Poster 6	Debondable epoxies for a circular economy: A microbusiness-academia partnership in action (IAA26_64)	M Bates (University of Leicester, UK), AFR Kilpatrick, S Heavey
Poster 7	Adhesive composites with self-healing and multifunctional self-sensing capabilities processed by additive manufacturing (IAA26_65)	L Amorim, P Costa, S Lanceros-Méndez (University of Minho, Portugal)
Adhesive properties		
Poster 8	Assessment of polyvinyl acetate-vinyl neodecanoate-methyl methacrylate-capped polyurethane copolymer: Synthesis, characterization, and application (IAA26_1)	RV Gadhave (Institute of Chemical Technology, Mumbai, India)
Poster 9	Streamlining adhesive characterization: from manufacturing to testing and data reduction recurring to a unified specimen (IAA26_7)	DS Correia (INEGI, Portugal), EAS Marques, RJC Carbas, LFM da Silva
Poster 10	Evaluation of a reprocessable vitrimer adhesive for non-structural applications (IAA26_8)	Sh Jalali (INEGI, Portugal), RJC Carbas, EAS Marques, LFM da Silva
Poster 11	Degradation analysis of adhesives using principal component analysis (IAA26_26)	D Yamaura (National Institute of Advanced Industrial Science and Technology (AIST), Japan), K Shimamoto, N Terasaki, H Akiyama
Poster 12	Evaluation of adhesive polymer materials with different curing temperature using white active vibration sensing technique (IAA26_55)	Y Sakata (National Institute of Advanced Industrial Science and Technology (AIST), Japan), N Terasaki
Poster 13	Effect of water on the critical energy release rate of DCB Specimens with narrow bond-line widths (IAA26_59)	K Shimamoto (National Institute of Advanced Industrial Science and Technology (AIST), Japan), H Akiyama

Automotive industry		
Poster 14	Characterization and debonding of sealant adhesives for electric vehicle battery pack lids (IAA26_5)	<u>VCMB Rodrigues</u> (INEGI, Portugal), MM Kasaei, EAS Marques, RJC Carbas, LFM da Silva
Poster 15	Experimental and numerical study on bonding of cast aluminium components for the automotive industry (IAA26_11)	AA Correia, <u>EAS Marques</u> (University of Porto, Portugal), RJC Carbas, LFM da Silva
Poster 16	Experimental study of the performance of low-bake structural adhesives exposed to moisture and surface contamination (IAA26_10)	JFM Lopes, VCMB Rodrigues, <u>EAS Marques</u> (University of Porto, Portugal), RJC Carbas, LFM da Silva
Poster 17	Extreme temperature effects on the dynamic response of highly flexible adhesive joints for automotive applications (IAA26_66)	<u>B Hasumi</u> (INEGI, Portugal), A Akhavan-Safar, RJC Carbas, EAS Marques, S Wenig, LFM da Silva
Poster 18	Mechanical response of dissimilar composite-to-steel adhesive joints for automotive floor structures under multi-rate loading conditions (IAA26_67)	<u>B Hasumi</u> (Asahi Kasei Corporation, Japan), A Akhavan-Safar, RJC Carbas, EAS Marques, LFM da Silva
Various industries		
Poster 19	A hybrid strategy for strengthening wood joints using bio-adhesive surface infusion (IAA26_9)	<u>Sh Jalali</u> (INEGI, Portugal), RJC Carbas, EAS Marques, LFM da Silva
Poster 20	Performance assessment of repaired composite sandwich beams (IAA26_13)	<u>RJC Carbas</u> (INEGI, Portugal), DS Correia, EAS Marques, LFM da Silva
Poster 21	The effect of temperature and strain rate on CFRP single-lap joints using different film adhesives (IAA26_12)	FCC Ribeiro, <u>RJC Carbas</u> (University of Porto, Portugal), EAS Marques, LFM da Silva
Poster 22	A practical tool for industry: Tackling the persistent challenge of fatigue life prediction in real-world adhesive joints (IAA26_15)	<u>A Akhavan-Safar</u> (INEGI, Portugal), RJC Carbas, EAS Marques, LFM da Silva
Poster 23	Adhesion at bi-material interfaces in microelectronic packaging: Joining mechanisms and failure modes (IAA26_20)	<u>P Maleki</u> (INEGI, Portugal), A Akhavan-Safar, RJC Carbas, EAS Marques, B Karunamurthy, LFM da Silva
Poster 24	Fracture and delamination response of semiconductors under humidity exposure (IAA26_21)	<u>P Maleki</u> (INEGI, Portugal), A Akhavan-Safar, RJC Carbas, EAS Marques, B Karunamurthy, LFM da Silva
Poster 25	Interface and durability assessment of an epoxy-thermoplastic film for reusable adhesive bonding in horseshoeing (IAA26_25)	<u>CMC Ferreira</u> (INEGI, Portugal), BD Simões, EAS Marques, RJC Carbas, LFM da Silva
Poster 26	Improving equine welfare: high performance adhesive films for fast and reusable horseshoe attachment (IAA26_24)	CMC Ferreira (INEGI, Portugal), BD Simões, EAS Marques, RJC Carbas, LFM da Silva
Poster 27	Development of diagnosis solution for adhesively lining PTFE sheet in storage tanks (IAA26_42)	M Hirota, Y Yoshiyama, S Toda, T Komeda, H Akiyama, Y Sakata, D Yamaura, R Hirakawa, <u>N Terasaki</u> (AIST, Japan)

Poster 28	Closing the gap: Fast, reliable adhesive injection with verified mechanics (IAA26_52)	<u>T Vallée</u> (Fraunhofer IFAM, Germany), MA Viehöfer, R Braun, C Schröder
Poster 29	Adhesion degradation mechanisms in anodized satellite solar panels and surface regeneration solutions (IAA26_56)	<u>MR Nasresfahani</u> (Institute of Materials and Energy, Isfahan, Iran), S Asghari, H Nazemi, H Gorabi, M Zamani

Friday 6 March 2026	
	Room Salão Nobre
8:40*	Structural metal bonding in the aerospace industry (IAA26_27) <u>N Duren</u> (AIRBUS Operations GmbH, Germany)
	Session 5 – Aeronautical industry (Chair: H Wehlan and D Rush)
	Room Salão Nobre
9:20	A novel design principle for damage tolerant material bonds in composites for aerospace applications (IAA26_30) <u>H Wehlan</u> (Airbus Helicopters, Germany), C Thum, S Büsing, T Joachim, M Blacha
9:40	Adhesive bonding for CFRP liquid hydrogen tank systems (IAA26_50) <u>T Meer</u> (Airbus Defence & Space, Germany), F Hübner, M Geistbeck, U Beier
10:00	Advances in acrylic foam tapes and flexible structural acrylic adhesives for bonded assemblies in transportation vehicles (IAA26_35) <u>H Garcia</u> (3M Iberia, Spain)
10:20	Innovations in adhesive bonding: Bridging science and industrial performance (IAA26_47) <u>LFM da Silva</u> (University of Porto, Portugal)
10:40-11:00	COFFEE BREAK (Room Capítulo)
	Session 6 – Automotive industry (Chair: S Böhm and H Fricke)
	Room Salão Nobre
11:00	Replacing welding by adhesive bonding in an automotive suspension unit (IAA26_41) <u>RD Adams</u> (University of Bristol, UK), R Green, B Haberman, M Spindler, A Tilney, A Towse
11:20	Adhesive bonding on aluminum die-cast components in automotive body-in-white applications (IAA26_29) <u>P Richter</u> (BMW AG, Germany)
11:40	Investigation of the causes of e-coat failure in high-strength structural bonding applications in assembly (IAA26_62) <u>M Kapelar</u> (Volkswagen AG, Germany), K Dilger
12:00	Ways to integrate adhesive bonding into Industry 4.0 processes (IAA26_46) <u>H Fricke</u> (Fraunhofer IFAM, Germany), T Vallée, T Evers
12:20	Development of a neural network to implement the behavior of a Mahnken-Schlimmer type adhesive for automotive structural computations (IAA26_38) <u>E Bernard</u> (ENSTA, France), T Fkyerat, C Cellard, L Sohier, O Ponte, P Briend, R Créac’hadeac
12:40	Adhesive dispensing process monitoring in battery manufacturing (IAA26_61) <u>J Weiland</u> (Bosch, Germany)
13:00-14:00	LUNCH BREAK (Restaurant)
	Room Salão Nobre
14:00*	How to manage an interdisciplinary joining technology in a multi-product portfolio enterprise like Bosch (IAA26_28) <u>P Stihler</u> (Bosch, Germany)
	Session 7 – Various industries (Chair: P Stihler and N Terasaki)
	Room Salão Nobre
14:40	Fatigue performance of adhesive joints in seawater environments (IAA26_31) <u>H Oguma</u> (National Institute for Materials Science, Japan), K Naito, M Midorikawa

15:00	Hybrid, galvanised, with pretension to perform (IAA26_53) <u>T Vallée</u> (Fraunhofer IFAM, Germany), T Evers, J Boretzki, M Albiez, M Dörre, J Mantik
15:20	Durability evaluation of adhesive joints in fluoropolymer-lined tanks under acid conditions (IAA26_45) <u>H Akiyama</u> (National Institute of Advanced Industrial Science and Technology (AIST), Japan), T Fukata, N Terasaki, T Yoshiyama, H Muto, T Komeda
15:40	Adhesion quality evaluation of bi-material interfaces for the semiconductor industry: An experimental fatigue and fracture study (IAA26_14) <u>A Akhavan-Safar</u> (INEGI, Portugal), RJC Carbas, EAS Marques, B Karunamurthy, LFM da Silva
16:00-16:20	COFFEE BREAK (Room Capítulo)
	Session 8 – Question time (Chair: LFM da Silva, RD Adams, C Sato, K Dilger and H Fricke)
	Room Salão Nobre
16:20-18:00	Session where the audience can ask questions about any topic related to industrial applications of adhesives. The scientific committee and the speakers will try to answer all the points raised.
20:00	IAA2026 BANQUET at Pousada Mosteiro Guimarães