



Programme of BJ 2026

Author underlined → presenting author

* Plenary lecture

Thursday 29 October 2026	
9:00	Opening (B032)
	Room B032
9:20*	Versatile robotic adhesive skin utilizing shape memory polymers (BJ26_1) <u>C Linghu</u> (City University of Hong Kong, China), Y Liu, H Gao, KJ Hsia
	Session 1 – Biomimetic adhesives (Chair: SN Gorb, P Flammang)
	Room B032
10:00	When a small star illuminates the whole picture: footprint characterization in <i>Asterina gibbosa</i> and the evolution of adhesive proteins in sea stars (BJ26_28) <u>P Flammang</u> (University of Mons, Belgium), L Smacchia, B Lengerer
10:20	A glycoprotein and a glycan-binding protein define the molecular basis of Hydra's underwater adhesive (BJ26_27) M Kanetscheider, M Achrainger, J Ofer, L Polz, N Aldred, B Hobmayer, <u>B Lengerer</u> (University of Innsbruck, Austria)
10:40-11:00	COFFEE BREAK
	Session 2 – Biological adhesives (Chair: PB Messersmith, LH Carvalho)
	Room B032
11:00	Versatile and sustainable adhesives derived from α -lipoic acid (BJ26_14) S Pal, J Shin, E Salzman, K DeFrates, C Perez, M Arslan, K Dale, H Chen, D Ramirez, <u>PB Messersmith</u> (University of California, USA)
11:20	Improving bonding capacity and water resistance of a coffee silverskin bio-adhesive (BJ26_5) <u>B Cardoso</u> (ARCP – Associação Rede Competência em Polímeros, Portugal), RA Fernandes, A Lima, JM Martins, LH Carvalho
11:40	Improving bonding and water resistance properties of bio-adhesives derived from grape stalks (BJ26_12) <u>I Barreto</u> (ARCP – Associação Rede Competência em Polímeros, Portugal), RA Fernandes, N Ferreira, M Peixoto, JM Martins, LH Carvalho
12:00	Shape locking and stiffness tuning via electro-adhesion of hydrogel to interdigitated electrode surfaces (BJ26_31) <u>S Jalali</u> (University of Alberta, Canada), H-J Chung, D Sameoto

12:20	Strategies for collagen gelation inhibition to obtain liquid collagen-based glues with good adhesive performance (BJ26_19) <u>M Amaral</u> (ARCP CoLAB, Portugal), S Monteiro, RM Ramos, A Sousa, FD Magalhaes, JM Martins, LH Carvalho
13:00-14:00	LUNCH BREAK
	Room B032
14:00*	Architected interfaces: Tailoring toughness and adhesion through geometry (BJ26_2) <u>KT Turner</u> (University of Pennsylvania, USA)
	Session 3 – Bioinspired interfaces and surfaces (Chair: D Sameoto, KT Turner)
	Room B032
14:40	Functional role of gradients in biological attachment devices (BJ26_18) <u>S Gorb</u> (Zoological Institute of the University of Kiel, Germany)
15:00	Toughness enhancement of adhesive joints via bio-inspired composite adherends (BJ26_10) <u>H Malekinejad</u> (INEGI, Portugal), RCJ Carbas, EAS Marques, LFM da Silva
15:20	Toward optimization of bioinspired mechanical adhesives for stiffness and shape tunable composites (BJ26_26) <u>D Sameoto</u> (University of Alberta, Canada)
15:40	Bio-inspired composite adherends: enhancing the impact performance of adhesive joint (BJ26_11) <u>H Malekinejad</u> (INEGI, Portugal), RCJ Carbas, EAS Marques, LFM da Silva
16:00-16:20	COFFEE BREAK
	Session 4 – Bioadhesion (Chair: SN Gorb, AD Whaite)
	Room B032
16:20	Long-term adhesion durability revealed through a rheological paradigm (BJ26_21) <u>R Wu</u> (City University of Hong Kong, China), C Linghu
16:40	From structure to function: Elucidating wet adhesion in mushroom-shaped microstructures (BJ26_23) <u>L Nasca</u> (Polytechnic University of Bari, Italy), E Pierro, C Putignano, M Santeramo, G Carbone
17:00	Assessment of the adhesion capability of mycelium-based composites for structural bonding applications (BJ26_23) M Mendedoht, <u>G Celebi</u> (Technische Universität Braunschweig, Germany), K Seibel, K Dilger, S Hartwig
17:20	Strings attached: the sticky business of sea cucumber self-defence (BJ26_30) <u>AD Whaite</u> (University of Mons, Belgium), M Bonneel, P Flammang
17:40	Turning salt into glue: Ion-specific control of underwater adhesion (BJ26_35) C-S Wang, H Zhang, W Raj, N Hassanpour, DA Pham, H Guo, <u>X Banquy</u> (Université de Montréal, Canada)
18:30	RECEPTION

Friday 30 October 2026	
9:00*	Sustainable, safe, and high-performance bio-based adhesives for wood-based composites (BJ26_4) <u>E Papadopoulou</u> (CHIMAR, Greece)
	Session 5 – Joining of wood (Chair: M Šernek, E Papadopoulou)
	Room B032
9:40	Bio-based adhesives from lignin and tannin for wood bonding (BJ26_15) <u>M Šernek</u> (University of Ljubljana, Slovenia), M Brus
10:00	Bio-based approaches to enhance the joint strength of wood single-lap joints (BJ26_8) <u>RJC Carbas</u> (University of Porto, Portugal), Sh Jalali, EAS Marques, LFM da Silva
10:20	Citric- and phosphoric-acid crosslinked shellac as a wood adhesive (BJ26_20) <u>M Brus</u> (University of Ljubljana, Slovenia), M Šernek
10:40-11:00	COFFEE BREAK
	Session 6 – Biological adhesives and bioadhesion (Chair: C Linghu, LH Carvalho)
	Room B032
11:00	Re-bonding performance of Euglena (alga)-base structural hotmelt adhesive (BJ26_22) <u>N Terasaki</u> (National Institute of Advanced Industrial Science and Technology (AIST), Japan), M Shibakami, T Himiyama, S Horiuchi, K Shimamoto, H Haruhisa
11:20	Durability of bio-based adhesives across biological and non-biological applications (BJ26_9) <u>A Akhavan-Safar</u> (INEGI, Portugal), EAS Marques, LFM da Silva
11:40	The effect of pad contamination on insect adhesion to waxy plant surfaces (BJ26_13) <u>EV Gorb</u> (Kiel University, Germany), SN Gorb
12:00	An overview of sustainable structural bonding through the use of adhesives with bio-based feedstock (BJ26_6) <u>EAS Marques</u> (University of Porto, Portugal), S Jalali, RJC Carbas, A Akhavan-Safar, LFM da Silva
12:20	Bio-engineered mycelium composites: Biochemical compatibility and cultivation engineering for sustainable applications (BJ26_33) <u>NLC Meroico</u> (Universidade Federal de Viçosa, Brazil), JMF de Carvalho, MCM Fonseca, MD Costa
13:00-14:00	LUNCH BREAK
14:00*	Fracture control as a driving force in cosmetic science (BJ26_3) <u>R Santoprete</u> (L'Oréal, France)
	Session 7 – Adhesion and adhesives in medicine (Chair: R Santoprete, V Provazník)
	Room B032
14:40	Double-tapered screw drive: A self-retaining solution for the surgical joining of bone fragments (BJ26_24) <u>V Provazník</u> (Johannes Kepler University Linz, Austria), W Baumgartner, S Lifka
15:00	Designing functionally graded adhesive interfaces for superior bond strength: A bioinspired approach (BJ26_25) <u>S Maharjan</u> (Villanova University, PA, USA), C Montoya, S Orrego, D Cereceda

15:20	Adhesive bonding on skin surfaces under hygrothermal conditions (BJ26_32) <u>S Wieland</u> (RWTH Aachen University, Germany), M El Arnaout, V Ginster, A Schiebahn, U Reisgen
15:40	Unraveling the role of surface architecture in bacterial adhesion to implants: A mechanistic review (BJ26_34) <u>P Zamani</u> (Damghan University, Iran), F Salimi, LFM da Silva
16:00-16:20	COFFEE BREAK
	Session 8 – Adhesion and adhesives in veterinary (Chair: BD Simões, LFM da Silva)
	Room B032
16:20	Thermoplastic adhesive film for horseshoe bonding: hoof substrate characterization and thermal safety assessment (BJ26_16) <u>CMC Ferreira</u> (INEGI, Portugal), BD Simões, EAS Marques, RJC Carbas, LFM da Silva
16:40	Durability and moisture diffusion of a reversible adhesive for glue-on horseshoeing (BJ26_17) <u>CMC Ferreira</u> (INEGI, Portugal), BD Simões, EAS Marques, RJC Carbas, LFM da Silva
17:00	Towards sustainable equestrian jump standards using bio-joined timber and heritage-inspired design (BJ26_7) <u>BD Simões</u> (INEGI, Portugal), PV Reis, LFM da Silva
19:30	BANQUET (Restaurant Vincci Porta de Ferro)