

International workshop “Advances in numerical modelling of adhesion and friction”

Trento, 18 - 19 November 2019

Monday 18 November: Theory and Numerical modelling				
When	What	Presenting author	Affiliation	Chair
14.00	Welcome and Introduction	Nicola Pugno	University of Trento	Federico Bosia
14.15	Modeling adhesive contacts under mixed-mode loading (invited)	Lucia Nicola	University of Padova and Delft University of Technology	
15.00	Influence of device handles in single molecule experiments	Giuseppe Florio	Politecnico di Bari	
15.30	Coffee break			
16.00	Boundary element method for adhesive contact and its application to complicated surfaces	Qiang Li	Technische Universität Berlin	Gianluca Costagliola
16.30	Biomechanics of shear-sensitive adhesion	David Labonte	Imperial College London	
17.00	Evolution of aerial spider webs towards optimized silk anchorages	Daniele Liprandi	University of Trento	

20.00	Social dinner at the Vicoli Restaurant (www.aivicoli.it)
-------	---

Tuesday 19 November: Modeling and Applications				
When	What	Presenting Author	Affiliation	Chair
09.15	Active biological adhesion (invited)	Giuseppe Puglisi	Politecnico di Bari	Nicola Pugno
10.00	The predictive power of initial bacterial adhesion for estimation of biofilm formation in urinary tract medical devices	Luciana Gomes	University of Porto	
10.30	Mechanobiology of trophoblast cells adhering to substrates	Luca Deseri	University of Trento	
11.00	Coffee break			
11.30	Flutter from friction	Davide Bigoni	University of Trento	David Labonte
12.00	Modelling adhesion and friction with a 2-D spring-block model	Gianluca Costagliola	University of Torino	
12.30	Complex coacervate based adhesives	Larissa van Westerveld	University of Groningen	

Poster	Influence of surface-modified carbon nanotubes/polydimethylsiloxane composites on bacterial adhesion and biofilm formation	Rita Daniela Teixeira Santos	University of Porto	
Poster	Quantifying the physical properties of the insect pad secretion	Domna-Maria Kaimaki	Imperial College London	