

Wednesday 03.11.2010

9:25 Welcome talk Organisation Team

9:30 Welcome talk Andreas Blust from the Federal Ministry for Transport, Innovation and Technology (BMVIT) & Petra Gruber (transarch)

9.50 Welcome talk Tiergarten Schönbrunn Deputy Director Harald Schwammer

10:00 Welcome talk Patrick Flammang "Presentation of COST Action TD0906"

10:20 Keynote talk Nick Aldred "Surface exploration and adhesion by barnacle larvae"

10:50 – 11:10 Coffee break

11:10 – 12:30 Chairman: Markus Linder

11:10 – 11:30 Jon Barnes "Tree frog adhesion research at the University of Glasgow"

11:30 – 11:50 Bjoern Melzer "Different strategies for permanent attachment in climbing plants: results and ongoing projects"

11:50 – 12:10 Udo Conrad "Production of spider silk derivatives in transgenic plants: purification and characterization"

12:10 – 12:30 Elise Hennebert "Structural and biochemical characterization of the adhesive material secreted by the tube feet of the sea star *Asterias rubens*"

12:30 – 14:00 Lunch

14:00 – 15:50 Chairwoman: Dagmar Voigt

14:00 Keynote talk Willi Schwotzer "Medicus Curat – Natura Sanat The Role of Adhesives in the Treatment of Wounds"

14:30 – 14:50 Havazelet Bianco-Peled "Glue from the sea: Biomedical adhesives inspired by algal polymers"

14:50 – 15:10 Paolo Galli "Head glands of Monogeneoidea: Morphology, functionality, and potentiality in industrial production of surgery bioadhesives"

15:10 – 15:30 Matthias Schnabelrauch "Biodegradable (meth)acrylate based adhesives for surgical applications"

15:30 – 15:50 Dimitra Dodou "Biological adhesives for biomedical applications"

15:50 – 16:10 Coffee breaks

16:10 – 18:00 Chairman: Patrick Flammang

16:10 – 16:30 Manuela Lopes "Adhesion in Dentistry"

16:30 – 16:50 Marise Almeida "Insights on adhesives biodegradation"

16:50 – 17:10 Thomas Endlein "Attachment strategies in tree and torrent frogs"

17:10 – 17:30 Ebru Toksoy Oner "A Promising Bioglue from an Extremophile"

17:30 – 18:00 Evening talk Oliver Betz "Adhesive exocrine glands in insects: morphology, ultrastructure, and adhesive secretion"

Thursday 04.11.2010

9:30 – 10:40 Chairman: Nick Aldred

9:30 Keynote talk Dagmar Voigt “Structure and Biomechanics of Biological and Bio-inspired Adhesive Systems”

10:00 – 10:20 Mustafa O. Guler “Self-Assembled Nanostructures Inspired by Mussel Adhesive Protein for Regenerative Medicine”

10:20 – 10:40 Michael Varenberg “Tribometer for in situ scanning electron microscopy of fibrillar contacts”

10:40 – 11:00 Coffee breaks

11:00 – 12:30 Chairman: Patrick Flammang

11:00 Keynote talk Aránzazu del Campo “Bio-inspired patterned adhesives for dry and wet conditions”

11:30 – 11:50 Michael Hesse “Bonding single pollen grains together: how and why?”

11:50 – 12:10 Matthias Worgull “Hot Embossing for Biomimetics: Replication of Surface Structures in the Sub-micron Range”

12:10 – 12:30 Pierre Becker “Adhesive proteins from the tube-dwelling worm *Sabellaria alveolata*”

12:30 – 14:00 Lunch

14:00 – 15:50 Chairman: Markus Linder

14:00 Keynote talk Heinz Redl “Fibrin an old, but highly innovative tool”

14:30 – 14:50 Tinca Buruiana “Approaches in the urethane (di)methacrylates chemistry used in bioapplications”

14:50 – 15:10 Susanne Wolbank “Evaluation of 3D fibrin matrix for soft tissue engineering application”

15:10 – 15:30 Gabriel Furtos “New Biomaterials used in Dental and Orthopedic Applications”

15:30 – 15:50 Anika Mostaert “Amyloid-based adhesives: from discovery to biomimetic inspiration”

15:50 – 16:20 Coffee breaks

16:20 – 18:00 Chairwoman: Aránzazu del Campo

16:20 – 16:40 Wolfram Adlassnig “Glands and Glandular Cells in Adhesive Traps of Carnivorous Plants”

16:40 – 17:00 Romana Santos “Current knowledge on sea urchin temporary adhesion”

17:00 – 17:20 Philippe Leclerc “Adhesive Properties of (Biological) Polymer Systems at the nanoscale: The key role of Scanning Probe Microscopies”

17:20 – 17:40 Hanna Leemreize “The mineralized holdfast system of the jingle shell”

17:40 – 18:00 Anne Marie Power “Barnacle bioadhesion”

Friday 05.11.2010

9:30 – 10:40 Chairwoman: Aránzazu del Campo

9:30 Keynote talk Hermann Onusseit “Bonding, the joining method of the 21. century”

10:00 – 10:20 Klaus Rischka “Marine inspired adhesives and coatings”

10:20 – 10:40 Ana Maria Varela Coelho “Bioapplications of mass spectrometry”

10:40 – 11:00 Coffee breaks

11:00 – 12:30 Chairman: Nick Aldred

11:00 Keynote talk Markus Linder “Fungal adhesion through hydrophobins”

11:30 – 11:50 Luigi Petrone “Development of imaging methods for detection of cyprids
exploration on self-assembled monolayer surfaces”

11:50 – 12:10 Christopher Elvin “A highly elastic tissue sealant based on photopolymerised
gelatine”

12:10 – 12:30 Mattias Berglin “Adsorption and curing of marine bioadhesives as studied with
QCM-D and SPR”

12:30 – 12:50 Norbert Cyran “Adhesive structures in cephalopods”

12:50 – 14:00 Lunch

14:00 - Management committee meeting

(Everybody can join but only the Management Committee is allowed to vote)

Open discussion about the organization of the working groups.