

Preparatory Meeting - Program

Monday, 25th of March 09h00 Welcome coffee

Welcome coffee 09h45 General introduction

Session 1: Membranes

10h00	Introduction of the session – Carlos Marques
10h10	Mély/Römer
	"Investigation by advanced fluorescence probes and techniques of the plasma membrane dynamics induced by the binding of the bacterium Pseudomonas aeruginosa"
10h20	Bechinger/Süss
	"Membrane active polypeptides and liposomal complexes for nucleic acid delivery"
10h30	Behrends/Marques
	"Lipid membrane translocation of biorelevant particles: oxidation effects"
10h40	Meier/Schröder
	"Polymersomes as photosensitizer carriers for the oxidation of bio-mimetic membranes"
10h50	Anselme/Rühe
	"The interaction between biosystems and 3D microstructured surfaces"
11h00	Discussion
11h30	Coffee break

Session 2: Soft matter interfaces: Mechanical properties, tribology, and adhesion related phenomena

11h50	Introduction of the session – Vincent Le Houérou
12h00	Decher/Shastri "Artificial cellular 2D and 3D microenvironments: Control of cell adhesion and behaviour"
12h10	Karine Anselme "Influence of morphology of microtopography on cellular mechanotransduction: how cells response differentiatie microstructures with sharp or smooth edges?" "Selection of cancer stem cells by modulating physical properties of their extracellular microenvironment."
12h20	Vincent Le Houérou "Friction on textured surfaces: Application to Insect-Plant interactions"
12h30	Jürgen Rühe "Wetting and adhesion on model microstructures"
12h40	Baschnagel-Blumen/Reiter-Rubin "Linear mechanical properties of freestanding polymer films"
12h50 13h20	Discussion Lunch



Session 3: From Design to Multifunctional Materials and Devices

14h45	Introduction of the session – Rolf Mülhaupt
14h55	Brinkmann-Samori/Reiter-Sommer
	"Graphene-induced crystallization of semi-crystalline conjugated polymers"
15h05	Brinkmann-Samori/Sommer
	"Polymorphism in high-mobility n-type main chain conjugated naphthalene
	diimide copolymers"
15h15	Projet Brinkmann/von Hauff/Ludwigs
	"Controlled nucleation & growth of conjugated polymers"
15h25	Giuseppone/Reiter
	"Long-range ordering of conducting triarylamine-based nanowires and heterojunctions"
15h35	Behrends/Lutz
151 45	"Reading Polymers: recognition of synthetic water-soluble polymers in nanopores"
15h45	Projet Lutz/Mülhaupt
15155	"Compartmentalized polymer ionic liquids: toward unimolecular machines"
15h55	Coffee break
16h10	Projet Mülhaupt/P. Lutz
16520	"Nanocrystalline layered systems and adaptive polymeric multilayer composites"
16h20	Rühe/J.F.Lutz/Mülhaupt ,,High precision synthesis of carbohydrate analog polymers for functional coatings and
	microsystem engineering "
16h30	Decher/Mülhaupt
101130	"Bone-like Multicomposites"
16h40	Mésini/Reiter
101110	"Self-assembled nanotubes sheathing semi-conducting wires"
16h50	Discussion
	Coffee break
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Session 4: Discussion on possibilities to integrate further proposals and about another thematic area

17h35	Introduction of the session – Jörg Baschnagel and Günter Reiter
17h45	Bartsch/Semenov "Colloid stabilization by unattached polymers in solution - from hard walls to soft and sterically stabilized colloids"
17h55	Bartsch/Hébraud "Influence of shear prehistory and particle attractions on the relaxation dynamics from non-equilibrium states to metastable colloidal glass states"
18h05	Igor Kulic "Project Brainiac: Building a Self - Assembled- Associative Memory"
18h15	Decher/Meier "3D Patterned Polyelectrolyte Multilayers through Phase Separation of Diblock- and Triblock-Polyelectrolytes"
18h25	Discussion
19h30	Diner in Maison Kammerzell



Tuesday, 26th of March

12h00 Lunch

13h30 Establishing the list of IRTG projects for the renewal proposal

Discussing financial matters and man-power requests

Prioritization: Ranking projects

Coffee break

17h00 Final comments and summary