Elitenetzwerk Bayern

## Workshop "Macromolecular Systems for NanoScience - Chemistry, Physics and Engineering Aspects", Irsee September 6<sup>th</sup>-9<sup>th</sup> 2007

Organized by CeNS (Munich) and BIMF (Bayreuth) in the framework of the Elite Network of Bavaria via the IDK-"NanoBioTechnology" and the Study Program "Macromolecular Science"

07:30     Breakfast     Breakfast     Breakfast     Breakfast     Breakfast     Breakfast     Breakfast     Complementary coordination of porphyrin as scaffol for biomimetic and optics materials       Ed Kramer     Thomas Russel     Yoshiaki Kobu       O9:45     Surface-Confined Self-Assembly     Can an optical sensor for TNT related explosives be made?     Multifunctional donor-acceptor bloc copolymers for sola cell applications       Mario Ruben     Jan O. Jeppesen     Mukundan Thelaki       10:30     Break     Break     DNA-switchable supramolecular structures       11:00		Thursday, 06.09.07	Friday, 07.09.07	Saturday, 08.09.07	Sunday, 09.09.07
Departure from Munich at 10:30 Arrival in Irsee at ~12:00 Arrival in Irse at ~12:00 Departure from Munich at 10:30 DNA as a tool for Nanoscience  Deborah Fygenson DNA as a tool for Nanoscience  Doborah Fygenson DNA as a tool for Nanoscience  Nanoscience Drive field to book tool field tool field tool for tool field	07:30		-		
Surface-Confined Self-Assembly	09:00		nanoparticles for positioning in block copolymers	copolymer-based nanolithographic processes	coordination of porphyrin as scaffold for biomimetic and optics materials
Surface-Confined Self-Assembly			Ed Kramer	Thomas Russel	Yoshiaki Kobuke
Break   Correlation between chain for photogy and electronic structure in conjugated polymers   Enrico Da Como   Fritz Simm   CLOSING	09:45		Self-Assembly	TNT related explosives be made?	donor-acceptor block copolymers for solar cell applications
11:00   Correlation between chain morphology and electronic structure in conjugated polymers   Enrico Da Como   Stephan Herminghaus   Fritz Simm   CLOSING					
morphology and electronic structure in conjugated polymers  Enrico Da Como  Micromechanics of ultrathin polymeric membranes - from capsules to wrinkles  Arrival in Irsee at ~12:00  12:30				Break	Break
Departure from Munich at 10:30	11:00		morphology and electronic structure in conjugated		supramolecular
Departure from Munich at 10:30 Arrival in Irsee at ~12:00 capsules to wrinkles  12:30 Lunch (Buffet)  14:15 OPENING  14:30 DNA as a tool for Nanoscience  Deborah Fygenson  15:15 Wormlike and glassy wormlike chains  Name Server  Mormlike and glassy wormlike chains  Eliason  16:30 Break  16:30 Tailor-made surfaces for microsystems and nanotechnology  17:15 Tuning block copolymer morphologies with electric fields — from chain stretching to order-order-transitions  Alexander Böker  18:00 Dinner (Buffet)  Dinner (Buffet)  Slow transport in complex environments  Slow transport in complex environments  Slow transport in complex environments  Thomas Franosch  Lunch (Buffet)  Lunch (Buffet)  Cell-free gene expression on a chip  Revealing the interplay of forces: dewetting fluids, adsorbing proteins and sticking geckos  Karin Jacobs  Nanostructures for Photovoltaics  Lukas Schmidt-Mende  Block Copolymer Blends for Holographic Data  Storage  Hans-Werner Schmidt  Cell-free gene expression on a chip  Revealing the interplay of forces: dewetting fluids, adsorbing proteins and sticking geckos  Karin Jacobs  Break  Block Copolymer Blends for Holographic Data  Storage  Hans-Werner Schmidt				Stephan Herminghaus	Fritz Simmel
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Arrival in Irsee at ~12:00  12:30					D
12:30   Lunch (Buffet)   Lunch (Buffet		Arrival in Irsee at ~12:00			
12:30   Lunch (Buffet)   Lunch (Buffet)     14:15   OPENING     14:30   DNA as a tool for Nanoscience   Deborah Fygenson   Deborah Fygenson   Craig Grimes   Roy Bar-Ziv     15:15   Wormlike and glassy wormlike chains   Short presentations of posters I   Revealing the interplay of forces: dewetting fluids, adsorbing proteins and sticking geckos   Karin Jacobs     16:30   Reak   Break   Break   Break   Break   Break     16:30   Tailor-made surfaces for microsystems and nanotechnology   Jürgen Rühe     17:15   Tuning block copolymer morphologies with electric fields - from chain stretching to order-order-transitions   Alexander Böker   Dinner (Buffet)     18:00   Dinner (Buffet)   Dinner (Buffet)   Dinner (Buffet)     19:30   Cell-free gene expression on a chip   Cell-free gene expression on a chip     Cell-free gene expression on a chip   Cell-free gene expression on a chip     Cell-free gene expression on a chip   Cell-free gene expression on a chip     Cell-free gene expression on a chip     Cell-free gene expression on a chip     Cell-free gene expression on a chip   Cell-free gene expression on a chip     Cell-free gene expression on a chip     Cell-free gene expression on a chip     Revealing the interplay of forces: dewetting fluids, adsorbing proteins and sticking geckos     Revealing the interplay of forces: dewetting fluids, adsorbing proteins and sticking geckos     Revealing the interplay of forces: dewetting fluids, adsorbing proteins and sticking geckos     Revealing the interplay of forces: dewetting fluids, adsorbing proteins and sticking geckos     Revealing the interplay of forces: dewetting fluids, adsorbing proteins and sticking geckos     Revealing the interplay of forces: dewetting fluids, adsorbing proteins and sticking geckos     Revealing the interplay of forces: dewetting fluids, adsorbing proteins and sticking geckos     Revealing the interplay of forces: dewetting fluids, adsorbing proteins and sticking geckos     Revealing the interplay of forces: dewetting fluids, adsorbing proteins			Andreas Fery	Thomas Franosch	
14:15 OPENING  14:30  DNA as a tool for Nanoscience  Deborah Fygenson  15:15  Wormlike and glassy wormlike chains  Nanoscience  Short presentations of posters I  Short presentations of posters II  Lukas Kroy  Short presentations of posters II  Lukas Schmidt-Mende  17:15  Tuning block copolymer morphologies with electric fields – from chain stretching to order-order-transitions  Alexander Böker  18:00  Dinner (Buffet)  Dinner (Buffet)  Cell-free gene expression on a chip  Achip  Conference Dinner			Lunch (Buffet)	Lunch (Buffet)	
DNA as a tool for Nanoscience of vertically oriented, highly ordered arrays of TiO <sub>2</sub> nanotubes  Deborah Fygenson Craig Grimes Roy Bar-Ziv  15:15 Wormlike and glassy wormlike chains Short presentations of posters I  16:00 Break Break Break Break  16:30 Tailor-made surfaces for microsystems and nanotechnology Short presentations of posters II  Tuning block copolymer morphologies with electric fields – from chain stretching to order-order-transitions Alexander Böker  18:00 Dinner (Buffet)  Dinner (Buffet)  Of vertically oriented, highly ordered arrays of TiO <sub>2</sub> nanotubes  Revealing the interplay of forces: dewetting fluids, adsorbing proteins and sticking geckos  Karin Jacobs  Nanostructures for Photovoltaics  Lukas Schmidt-Mende  Block Copolymer Blends for Holographic Data Storage  Hans-Werner Schmidt  Conference Dinner		OPENING			
Tailor-made surfaces for microsystems and nanotechnology   Jürgen Rühe	14:30		of vertically oriented, highly ordered arrays of		
Wormlike and glassy wormlike chains  Short presentations of posters I  Forces: dewetting fluids, adsorbing proteins and sticking geckos  Karin Jacobs  Break  Break  Tailor-made surfaces for microsystems and nanotechnology  Jürgen Rühe  Tuning block copolymer morphologies with electric fields – from chain stretching to order-order-transitions  Alexander Böker  Monostructures for Photovoltaics  Lukas Schmidt-Mende  Block Copolymer Blends for Holographic Data Storage  Hans-Werner Schmidt  Lukas Schmidt-Mende  Block Copolymer Blends for Holographic Data Storage  Conference Dinner		Deborah Fygenson	Craig Grimes	Roy Bar-Ziv	
16:00BreakBreakBreak16:30Tailor-made surfaces for microsystems and nanotechnologyShort presentations of posters IINanostructures for PhotovoltaicsJürgen RüheLukas Schmidt-Mende17:15Tuning block copolymer morphologies with electric fields – from chain stretching to order-order-transitionsBlock Copolymer Blends for Holographic Data StorageAlexander BökerHans-Werner Schmidt18:00Dinner (Buffet)Conference Dinner	15:15	wormlike chains		forces: dewetting fluids, adsorbing proteins and sticking geckos	
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Short presentations of posters II   Nanostructures for Photovoltaics		Break	Break	Break	
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