Sunday, May 28, 2017

17:00 – 21:00 Register

From 18:00 BUFFET DINNER / Informal get together

Monday, May 29, 2017

07:30 08:40 – 09:00	BREAKFAST Joachim Bill Hendrik Hölscher Mato Knez	Welcome and opening
09:00 – 09:40	Silvia Vignolini	Photonics: from nature to applications
09:40 – 10:20	Mathias Kolle	Biologically Inspired Soft and Fluid Optical Materials
10:20 – 10:50	COFFEE BREAK	
10:50 – 11:30	Ulrich Steiner	Biological Whiteness
11:30 – 11:50	Bor-Kai Hsiung	Unique Rainbow Spider Scales with High Wavelength Resolving Power
11:50 – 12:30	Radwanul H. Siddique	Bio-inspired nanophotonic structures for biosensing: from low concentration protein sensing to in-vivo intraocular pressure sensing
12:30 - 12:40	Conference photo (in front of the Physikzentrum/main entrance)	
12:40	LUNCH	

Monday, May 29, 2017

14:00 – 14:40	Fiona Meldrum	Controlling Crystallization using Confinement and Surface Topography
14:40 – 15:00	Guillaume Gomard	Plant epidermal cells as light- harvesting elements for photovoltaics
15:00 – 15:40	Ingrid Weiss	Material and Structure: First Steps Towards Functionality by Genetic Engineering
15:40 – 16:10	COFFEE BREAK	
16:10 – 16:50	Cordt Zollfrank	Biotemplating of structural and functional materials
16:50 – 17:10	Diana Skigin	Structural Color and Other Electromagnetic Effects in Natural Structures
17:10 – 17:50	Andreas Fery	Colloidal surface assemblies: Nanotechnology meets Bioinspiration
17:50 – 18:30	Dirk Rothenstein	Peptide-controlled Biomineralization
18:30 – 18:45	Stefan Jorda	About the Wilhelm and Else Heraeus Foundation
19:00	HERAEUS DINNER	
	(cold & warm buffet with	complimentary drinks)

Tuesday, May 30, 2017

07:30	BREAKFAST	
09:00 - 09:40	Wilhelm Barthlott	The Secret of Sacred Lotus: Functional Surfaces for Technical Innovations from Biological Diversity
09:40 – 10:20	Maryna Kavalenka	Multifunctional Bioinspired Nanohair- Covered Surface for Environmental Applications
10:20 – 10:50	COFFEE BREAK	
10:50 – 11:30	Kerstin Koch	Bouncing, splashing and spreading of water droplets on biological and biomimetic surfaces
11:30 – 11:50	Yongmei Zheng	Bioinspired gradient surfaces with controlling of dynamic wettability
11:50 – 12:30	Christoph Neinhuis	Nature inspired surface modifications for improved product properties
12:30	LUNCH	
14:00 – 14:40	Aránzazu del Campo	Hybrid surface patterns mimicking frog toe pad wet-adhesive design
14:40 – 15:00	Maximilian Rothammer	Tailored disorder in functional optical bioinspired materials
15:00 – 15:40	Zakalina Burghard	Bioinspired structural design of ceramic based functional materials
15:40 – 16:10	COFFEE BREAK	

Tuesday, May 30, 2017

16:10 – 16:50	Thomas Scheibel	Engineered functional interfaces based on spider silk proteins
16:50 – 17:10	Stefan Walheim	Polymer Blend Lithography: Large Area Nanostructures for Biomimetic Applications
17:10 – 17:50	Filipe Natalio	Towards materials farming: biological fabrication of cellulose fibers with tailored properties
17:50 – 19:00	Poster-Flash	
19:00	Dinner	
20:00	Poster Session	

Wednesday, May 31, 2017

07:30	BREAKFAST	
09:00 - 09:40	David Kisailus	Impact and Wear Resistant Biological Surfaces
09:40 – 10:00	Itxasne Azpitarte Iraculis	Improving the properties of Kevlar through vapor phase infiltration
10:00 – 10:40	Thomas Speck	Attachment and anti-attachment structures in plants – biomechanics and surface structures
10:40 – 11:10	COFFEE BREAK	
11:10 – 11:50	Ingo Burgert	Wood-based hierarchical scaffolds for functional materials
11:50 – 12:10	Chih-hung Chang	Bio-inspired, Micro-, Nanostructured Surface for Thermal Energy Management via Phase Change
12:10 – 12:40	Panel Discussion & Be	est Poster Awards
12:40	LUNCH	
14:00 – 14:40	Stanislav N. Gorb	Structural, material, and functional gradients in biological attachment systems
14:40 – 15:00	Julia Syurik	Bio-inspired highly scattering white all-polymer films
15:00 – 15:40	Werner Baumgartner	Friction reducing sandfish skin
15:40	Joachim Bill Hendrik Hölscher Mato Knez	Closing & Farewell Coffee

End of the seminar and departure

Breakfast at 07:30 h for those leaving on Thursday, 1 June 2017