



TECHNISCHE UNIVERSITÄT  
CHEMNITZ

## WORKSHOP AC 21

# "Future perspectives on applications of porphyrin and phthalocyanine derivatives"



Academic Consortium 21

### Thursday, 22.10.2015

09:00 - 09:30	Workshop Opening
09:30 - 10:15	Phthalocyanines for Advanced Applications: Some Examples (Prof. Hanack, University of Tübingen)
10:15 - 10:45	Coffee Break
10:45 - 11:30	Tetrapyrrole Macrocycles – Ancient Molecules with Brilliant Futures (Prof. Lindsey, North Carolina State University)
11:30 - 12:15	Photochemical Upconversion (Prof. Castellano, North Carolina State University)
12:15 - 13:45	Lunch Break
13:45 - 14:30	Synthesis, Characterization and Application Potential of (Metallo)porphyrins and -phthalocyanines (Dr. Ruffer, TU Chemnitz)
14:30 - 15:00	Metalloporphyrin Derivatives as Multielectron Transfer Sensitizers for Green Chemistry, Photocatalysis and Artificial Photosynthesis (Prof. Knör, Johannes Kepler University in Linz)
15:00 - 15:20	Electrocatalytic Aspects of Porphyrins, Phthalocyanines, and Other Tetradentate Complexes (Dr. Vanalabhpatana, Chulalongkorn University)
15:20 - 16:05	Chemical Reactions of Phthalocyanines and Porphyrins on Noble Metal Surfaces Studied by STM and XPS (Lars Smekalla, TU Chemnitz)
16:05 - 16:35	Coffee and Short Highlight Session for Poster Presentation (max. 3 min per Poster)
16:35 - 18:00	Break
18:00 - 21:00	Conference Dinner + Poster Session and Informal Discussions



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### Friday, 23.10.2015

09:00 - 09:45	Exploring the Potential of Phthalocyanines as Versatile Building-Blocks for Organic Spintronics (Prof. Heutz, Imperial College in London)
09:45 - 10:30	Molecular Quantum Spintronics (Prof. Ruben, University of Strasbourg)
10:30 - 11:00	Coffee break
11:00 - 11:45	Magneto-optical Properties of Phthalocyanines and Porphyrines (Prof. Salvan, TU Chemnitz)
11:45 - 12:30	Porphyrins for (Photo)electrocatalysis and Organic Optoelectronics (Prof. Thamyongkit, Chulalongkorn University)
12:30 - 14:00	Lunch break
14:00 - 14:45	Metal-phthalocyanines: Materials for Molecular Spintronics (Prof. Kortus, TU Bergakademie Freiberg)
14:45 - 15:05	Electronic Structure of Porphyrin from HF-DMRG Calculations (Dr. Paiboonvorachat, Chulalongkorn University)
15:05 - 15:50	Potassium Doping of Manganese Phthalocyanine Thin Films (Prof. Zahn, TU Chemnitz)
15:50 - 16:20	General Discussion on Future Perspectives of Porphyrin and Phthalocyanine Derivatives
16:20 - 16:35	Final Remarks