

MONDAY 25 September 2017		TUESDAY 26 September 2017		WEDNESDAY 27 September 2017	
		9:00 - 10:00	Ward	9:00 - 10:00	Todorovic
		10:00 - 10:30	Mali	10:00 - 10:30	Scherbela
		10:30 - 11:00	Balzer	10:30 - 11:00	Breuer
			coffee break		coffee break
		11:30 - 12:30	Tkatchenko	11:30 - 12:30	Myerson
		12:30 - 13:00	Poster	12:30 - 13:00	Chattopadhyay
			lunch		CONCLUSION
12:45 - 13:00	WELCOME	13:00 - 14:30	Poster		
13:00 - 14:00	Griesser	14:30 - 15:30	Forker		
14:00 - 15:00	Loo	15:30 - 16:00	Roese	15:00	excursion
15:00 - 15:30	Gbabode	16:00 - 16:30	Th. Wagner		
	coffee break	16:30 - 17:00	Matkovic		
16:00 - 17:00	Ocko		coffee break		
17:00 - 17:30	Smilgies	17:30 - 18:30	Sugden		Invited talk
17:30 - 18:00	Schiek	18:30 - 19:00	Rozboril		Contributed talk
18:00 - 18:30	Rivalta				Poster
		20:00	dinner		

# Program of the Workshop

**Monday**  
**25<sup>th</sup> September 2017**

12:45 – 13:00          Welcome

SESSION 1:

**Chairman: A. Daniel Boese, Graz University**

13:00 – 14:00          **Ulrich Griesser** (University of Innsbruck, Austria)  
Pathways to polymorphs in molecular crystals

14:00 – 15:00          **Lynn Loo** (Princeton University, NJ, USA)  
Polymorphic accessibility and stability in molecular semiconductor thin films

15:00 – 15:30          **Gabin Gbabode** (Normandie University, Rouen, France)  
Preliminary results on the polymorphic behavior in thin films of a small organic model molecule: n-methylurea

15:30 – 16:00          **Coffee Break**

SESSION 2:

**Chairman: Oliver Werzer, Graz University**

16:00 – 17:00          **Ben Ocko** (Brookhaven National Laboratory, NY, USA)  
Surface freezing

17:00 – 17:30          **Detlef-M. Smilgies** (Cornell University, NY, USA)  
Transient polymorphs during processing of organic semiconductors

17:30 – 18:00          **Manuela Schiek** (University of Oldenburg, Germany)  
Polymorphic phases of an aniline-squaraine in spin casted and vapor deposited thin films

18:00 – 18:30          **Ariana Rivalta** (University of Bologna, Italy)  
Polymorphs and Surface Induced Structures in drug thin films investigated by Raman spectroscopy

# Tuesday

## 26<sup>th</sup> September 2017

### SESSION 3:

**Chairman: Oliver Hofmann, Graz University of Technology**

- 9:00 – 10:00      **Michael D. Ward** (New York University, NY, USA)  
The role of epitaxy and confined interfaces in thin film and crystal polymorphism
- 10:00 – 10:30      **Kunal S. Mali** (Leuven Chem and Tech, Belgium)  
Surface-supported multicomponent supramolecular architecture: interactions and stimulus responsive behaviour
- 10:30 – 11:00      **Frank Balzer** (South Danish University, Sonderborg, Denmark)  
Formation and electrostatic surface potential of functionalized quarter-phenylene nanofibers
- 11:00 – 11:30      **Coffee Break**

### SESSION 4:

**Chairman: Oliver Hofmann, Graz University of Technology**

- 11:30 – 12:30      **Alexandre Tkatchenko** (University of Luxembourg, Luxembourg)  
First-principles modeling of molecular polymorphism in crystals and on surfaces
- 12:30 – 14:30      **Poster Session including Lunch**

### SESSION 5:

**Chairman: Andrew O. F. Jones, Anton Paar, Graz**

- 14:30 – 15:30      **Roman Forker** (Friedrich Schiller University Jena, Germany)  
Physisorbed molecular adlayer exhibiting temperature- and coverage-dependent polymorphism
- 15:30 – 16:00      **Peter Roes** (Technische Universität Dortmund, Germany)  
XPS/XPD measurements of self-assembled caffeine monolayers on Ag(110)
- 16:00 – 16:30      **Thorsten Wagner** (Johannes Kepler University Linz, Austria)  
The growth of  $\alpha$ -sexithiophene on different silver surfaces
- 16:30 – 17:00      **Aleksandar Matković** (Montanuniversität Leoben, Austria)  
Contact planes of small rod-like molecules on graphene and hexagonal boron nitride
- 17:00 – 17:30      **Coffee Break**

SESSION 6:

**Chairman: Andrew O. F. Jones, Anton Paar, Graz**

- 17:30 – 18:30            **Isaac Sudgen** (Imperial College London, UK)  
Recent advances in *ab initio* crystal structure prediction
- 18:30 – 19:00            **Jakub Rozbořil** (Masaryk University, Brno, Czech Republic)  
In-situ X-ray diffraction annealing study on an anthradithiophene derivative
- 20:00                      **Workshop dinner “Meerscheinschlössl”**

# Wednesday

## 27<sup>th</sup> September 2017

SESSION 7:

**Chairman: Roland Resel, Graz University of Technology**

- 9:00 – 10:00            **Milica Todorović** (Aalto University, Finland)  
Efficient Bayesian inference of surface adsorption
- 10:00 – 10:30            **Michael Scherbela** (Graz University of Technology, Austria)  
Computational polymorph prediction for organic/inorganic interfaces using machine learning
- 10:30 – 11:00            **Tobias Breuer** (Philipps-University Marburg, Germany)  
Influence of surface roughness on polymorph formation in organic thin films
- 11:00 – 11:30            **Coffee Break**

SESSION 8:

**Chairman: Roland Resel, Graz University of Technology**

- 11:30 – 12:30            **Allan S. Myerson** (Massachusetts Institute of Technology, MA, USA)  
Nucleation of organic molecular crystals on surfaces and in nanopores
- 12:30 – 13:00            **Basab Chattopadhyay** (Université Libre de Bruxelles, Belgium)  
A thermal gradient approach towards polymorph selection
- 15:00 –                    **Excursion**

# Posters

**(1) Selective, temperature-induced F4TCNQ desorption from p-doped P3HT films**

H. Hase, A. Opitz, N. Koch, I. Salzmänn

**(2) Epitaxially ordered Metal-Organic-Frameworks based on copper-benzenedioic acid**

S. Hofer, A. Jones, R. Resel, K. Okada, R. Ricco, P. Falcaro

**(3) First-principles molecular crystal structure prediction: The importance of collective van der Waals interactions and free energies**

J. Hoja, H.-Yu Ko, R. Car, R. A. DiStasio Jr., A. Tkatchenko

**(4) Computational phase diagram prediction for organic monolayers on metal substrates**

L. Hörmann, M. Scherbela, V. Obersteiner, O.T. Hofmann

**(5) Photochemical switching of azobenzene derivatives on an insulating surface**

S. Jaekel, A. Richter, R. Lindner, R. Bechstein, A. Kühnle, St. Hecht, L. Grill

**(6) Understanding polymorph selection in nabumentone thin films at surfaces**

M. Kaltenecker, O. Werzer, Ch. Röthel

**(7) Biaxial oriented growth of pentacene on rippled glass surfaces**

S. Pachmajer, O. Werzer, A. Perrotta, R. Resel

**(8) Appearance of a surface induced crystal structure of 6,6'-dibromoindigo**

M. Truger, C. Röthel, D. Kriegner, I. Salzmänn, J. Simbrunner, R. Resel

**(9) Complex behaviour of caffeine crystallites on solid surfaces**

C. Röthel, M. Radziown, C. Simbrunner, R. Resel, O. Werzer

**(10) The substrate-induced phase of C<sub>8</sub>O-BTBT-OC<sub>8</sub> detected by mid-infrared and lattice phonon Raman spectroscopy**

B. Schrode, A.O.F. Jones, R. Resel, R. Schennach, A. Brillante, T. Salzillo, E. Venuti

**(11) Photoluminescence as a probe of molecular organization in PDI8-CN2 ultra-thin films**

A. Brillante, T. Salzillo, R.G. Della Valle, E. Venuti, F. Borgatti, E. Lunedei, F. Liscio, S. Milita, C. Albonetti

**(12) Accurate calculations of molecular crystals**

O. A. Loboda, G. A. Dolgonos, A. D. Boese

**(13) Addressing conformational and vibrational entropy in bio-organic systems**

M. Rossi, D. Makismoy, C. Baldauf

**(14) *In-situ* crystallization and gel formation of thermodynamically unstable polymorphs: a SWAXS study of caffeine in isopropanol**

A. O. F. Jones, H. M. A. Ehmman, A. Keilbach, A. Moser, C. Röthel, O. Werzer

**(15) A fast alternative to periodic DFT calculations: DFT embedded into DFTB**

G. A. Dolgonos, O. A. Loboda, A. D. Boese