

Announcement of the Course:

Preparation and Characterization of

Organic Thin Films

When: Mo., 20.7.2015 - Fr., 24.7.2015, 9:15 - 17:00

When: Mo., 20.7.2015 - Fr., 24.7.2015, 3.15 - 11.05

Where: 9:15 a.m. - 12.20 p.m. CS / AOC 201 (theoretical part)

theoretical part)

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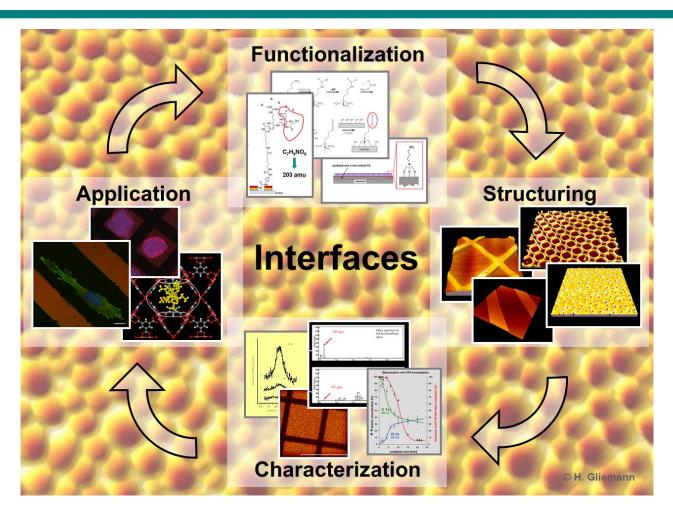
2:00 p.m. – 5:00 p.m. CN / Building 330 (practical part)

Please notice the changed location

The course is designed for advanced students with a Bachelor in chemistry. Different methods for the preparation and structuring of organic thin films on metal and oxidic surfaces as well as different techniques for the (site-selective) surface characterization will be discussed. The theoretical introduction in the morning will be followed by a practical part in the afternoon. The course will be given in English language.

Registration via e-mail is necessary! Please contact : hartmut.gliemann@kit.edu

Registration deadline: Friday, 10.7.2015



Preliminary programm

Please notice the change in the location for the theoretical part

Lectures will be given at Camus South / Room 201 / Building 30.45

The Practical part will take place in the labs of IFG / Campus North

Monday, 20.7.2015			
	Introduction		
Morning (CS)	Self Assembled Monolayers (SAMs)		
	Structuring of substrates and SAMs		
Afternoon (CN)	P: (preparation of stamps), SAMs on Au samples, μCP		

Friday, 24.7.2015				
Morning	XPS			
(CS)	ToF-SIMS			
Afternoon (CN)	P: XPS			
, ,	P: ToF-SIMS			

Tuesday, 21.7.2015			
Morning (CS)	QCM-D, SPR		
	Vibrational spectroscopy methods		
Afternoon (CN)	P: _loading, or SAM formation with QCM-D / evaluation		

Wednesday, 22.7.2015			
Morning (CS)	STM, AFM, SEM		
	Ellipsometry		
Afternoon (CN)	P: AFM and IR on (patterned) SAMs		

Thursday, 23.7.2015		
Morning (CS)	Metal-Organic Frameworks	
	XRD	
Afternoon (CN)	P: Preparation of SURMOFs (spray)	
	P : XRD on SURMOFs / evaluation	

Time table:

Seminar room AOC 201 (CS)

1 st morning session 9:15 - 10:45 Break: 10:45 - 11:00 2nd morning session 11:00 - 12:20

KIT shuttle CS \rightarrow CN 12:30 – 12:50

Lunch break: 12:50 – 14:00

Seminar room IFG (CN)/Building 330/Room 356

Practical Part: 14:00 – 17:00