Thursday 24.05.2018

	CHAIR: AGNIESZKA KUC Defects on the molecular level I
9:30-10:00	Functionalization of 2D materials Andreas Hirsch
10:00 -10:30	Degradation and defect passivation in liquid-exfoliated inorganic 2D materials Claudia Backes
10:30 - 11:00	Understanding properties of low-dimensional materials at the atomic scale by low-voltage TEM Ute Kaiser
11:00 - 11:30	COFFEE BREAK
	CHAIR: THOMAS HIGGINS Defects on the molecular level II
11:30 - 11:50	Electronic structure of defective transition metal dichalcogenides: theoretical investigations Agnieszka Kuc
11:50 - 12:20	CVD-grown monolayer tungsten disulfide: properties, defects and degradation Camilla Coletti
12:20 -12:50	Disorder and defects in molecular frameworks: Boon or bane? Bettina Lotsch
12:50 -13:00	CONCLUDING REMARKS

Dr. Claudia Backes & Dr. Thomas Higgins received this award in 2017.

Three Klaus-Georg and Sigrid Hengstberger Prizes are bestowed annually to young scientists and researchers at Heidelberg University. The awards are intended to enable the young recipients to present an interdisciplinary scientific symposium at the International Academic Forum Heidelberg (IWH). The next deadline for applications is April 1st.

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HENGSTBERGER SYMPOSIUM

The role of defects in low-dimensional nanostructures

May 22 – 24, 2018

ORGANISATION: Institute of Applied Physical Chemistry

Tuesday, 22.5.2018		Tuesday, 22.5.2018		
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12:30 - 13:20	WELCOME RECEPTION
	CHAIR: CLAUDIA BACKES Role of defects across the process chain
13:20 - 13:30	WELCOME
	Peter Comba
13:30 - 14:00	Colloidal nanocrystals of APbX3 perovskites: highly defected, yet highly luminescent materials
	Maksym Kovalenko
14:00 - 14:30	What can you do with disordered arrays of nanosheets? Jonathan Coleman
14:30 - 15:00	Characterisation of defective TMD films Georg Duesberg
15:00 - 15:30	COFFEE BREAK
	CHAIR: JONATHAN COLEMAN Applications
15:30 - 16:00	Defect engineering in nanomaterials Horst Hahn
16:00 - 16:30	Assembly of 2D materials at liquid-liquid interfaces Alan Dalton
16:30 - 17:00	Towards wafer-scale processing of 2D materials Daniel Neumaier
17:00 - 17:20	Exploring charge transport in semiconducting nanosheet networks Thomas Higgins
17:20 - 17:50	How nature indexing helps you find nanotechnology literature and data efficiently Simone Bartel
18:30	DINNER AT IWH
	Wednesday, 23.05.2018
	CHAIR: HORST HAHN Electronic properties
9:30-10:00	Separation of double walled carbon nanotubes Benjamin Flavel

10:00-10:30	Avoiding and/or creating defects in carbon nanotube networks for device applications Jana Zaumseil	
10:30 - 11:00	Electronic Dirac systems: from Platonic artificial lattices made in an STM to real honeycomb semiconductors Daniel Vanmaekelbergh	
11:00 - 11:30	COFFEE BREAK	
	CHAIR: JANA ZAUMSEIL Optical properties	
11:30 -12:00	Optical properties of 2D materials <i>Janina Maultzsch</i>	
12:00 -12:30	Dielectric disorder in 2D materials <i>Alexey Chernikov</i>	
12:30 - 12:50	The influence of crystallographic defects on the optical properties of few-layered MoS2 nanosheets Filippo Fabbri	
12:50 - 13:10	Impact of sp³ defects on charge transport and emission properties in swnt networks Felix Berger	
13:10 - 14:30	LUNCH	
	CHAIR: GEORG DUESBERG Fundamental properties	
14:30 -15:00	2D CrTe3 and quasi-2D CuCrS2 – long-range and short-range structures and properties Wolfgang Bensch	
15:00-15:30	Defects, what are you then? Part of the power that would // always wish evil, and always works the good Thomas Heine	
15:30 -15:50	Defect engineering for doping of metal halide perovskites <i>Robert Lovrincic</i>	
15:50 -16:10	Colloidal CsPbX ₃ Nanocrystals 2.0: zwitterionic capping ligands for improved durability and stability Franziska Krieg	
16:10 - 16:40	SPONSOR SESSION	
16:40 - 19:00	GROUP DISCUSSIONS AND MINIWORKSHOPS	
19:00	INVITED SPEAKERS' DINNER at Kulturbrauerei	