

5th TransMIT Workshop on „Modern Spectroscopic Techniques“

Program

1.6.2024 Saturday

TIME	PRESENTER	TOPIC	AFFILIATION	NR.
18:00	M. Koch	Welcome reception	U Marburg	01

2.6.2024 Sunday

Chairman: Nico Vieweg

TIME	PRESENTER	TOPIC	AFFILIATION	
9:00	M. Koch	Opening Remarks		02
9:30	M. Koch	THz time-domain spectroscopy – the early years	U Marburg	03
10:05		Coffee break		
10:25	L. Heidrich	THz TDS for pharmaceutical applications and crystallinity investigations	U Marburg	04
11:05	J. Wiener	The T-Box: a tool for fast THz aging measurements of pharmaceutical samples	U Marburg	05
11:35		Coffee break		
11:55	B. Scherger	Quasi-optical THz devices	U Marburg	06
12:25	R. Wilk	High Resolution THz Spectroscopy of Whispering Gallery Mode Resonators	TOPTICA Photonics GmbH	07
14:00 - 15:30	M. Koch	Semiconductor Photonics Group: Quo Vadis		08

3.6.2024 Monday

Chairman: Thomas Kleine-Ostmann

TIME	PRESENTER	TOPIC	AFFILIATION	
9:00	R. Kohlhaas	Ultrafast Photoconductors for Pulsed THz Antennas and SESAMs	Fraunhofer HHI Institute, Berlin	09
9:35	L. Liebermeister	Photonic Integrated Circuits for Terahertz Sensing	Fraunhofer HHI Institute, Berlin	10
10:10		Coffee break		
10:30	K. Wenzel	Optoelectronic THz Systems for Sparse Sensing	Fraunhofer HHI Institute, Berlin	11
11:05	I. Pupeza	Research at the Laboratory of Lightwave Metrology	U Kaiserslautern	12
11:35		Coffee break		
11:55	J. Ornik	A new platform for high-speed field-resolved infrared spectroscopy	Leibniz-IPHT Jena	13
12:25	T. Kleine-Ostmann	Waveform and Phase Noise Metrology	PTB Braunschweig	14

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4.6.2024 Tuesday

Chairman: Robert Kohlhaas

TIME	PRESENTER	TOPIC	AFFILIATION	
9:00	Ioachim Pupeza	Femtosecond enhancement cavities and their applications	U Kaiserslautern	15
9:30	Dmitry Turchinovich	THz physics of graphene: from relativity to nonlinear conductivity	U Bielefeld	16
10:15		Coffee break		
10:35	Y. Monnai	To be announced	U Tokyo	17
11:05	E. Pickwell-MacPherson	Advances of THz <i>in vivo</i> imaging of skin	U Warwick	18
11:35		Coffee break		
11:55	N. Vieweg	Next Generation Frequency Domain Terahertz Spectroscopy	TOPTICA Photonics GmbH	19
12:25				20
14:30 - 16:00	Liebermeister & K. Wenzel	T-Sweeper Workshop - Hands on optoelectronic FMCW-spectrometer	Fraunhofer HHI Insitut, Berlin	21

5.6.2024 Wednesday Chairman: Sven Ramelow

TIME	PRESENTER	TOPIC	AFFILIATION	
9:00	T. Kleine-Ostmann	New Developments in Antenna Measuring Techniques	PTB Braunschweig	22
9:35	M. Hofmann	Diode laser systems and THz applications	U Bochum	23
10:10		Coffee break		
10:30	F. Gorka	2D materials, Quo vadis? - Current developments and future prospects	U Marburg	24
11:00	Jan Ornik	Toward field-resolved IR spectroscopy of breath	Leibniz-IPHT Jena	25
11:30		Coffee break		
11:50	S. Ramelow	Learning about ceramics with mid-IR undetected photons	U Berlin	26
14:30 - 16:00	N. Vieweg	ECOPS-Workshop – Hands on optoelectronic fast THz-TDS-spectrometer	TOPTICA Photonics GmbH	27
20:00	D.Turchinovich	Science on the beach: “Bell's inequity, or why our world is a random place”	U Bielefeld	28

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6.6.2024 Thursday Chairman: Rafal Wilk

TIME	PRESENTER	TOPIC	AFFILIATION	
9:00	M. Wehn	Measurements with an electronic 300 GHz System	U Marburg	29
9:30	J. Balzer	Terahertz Synthetic Aperture Radar Imaging	U Duisburg-Essen	30
10:15		Coffee break		
10:35	B. Scherger	To be announced	U Marburg	31
11:05	R. Wilk	From Research over High Tech Photonics Industry to Mass-Production	E.E.P.D. GmbH	32
11:35		Coffee break		
11:55	E. Castro-Camus	Modelling of THz surface emitters	U Marburg	33
12:25	U. Willer	Processing and use of fiber Bragg gratings in sensor technology	U Clausthal	34
17:30	J. Ornik	Brainstorming session on "THz gas spectroscopy: state of the art"	Leibniz-IPHT Jena	35

7.6.2024 Friday Chairwoman: Lara Heidrich

TIME	PRESENTER	TOPIC	AFFILIATION	
9:00	D. Botros	Perovskites: peak performance through ultrafast spectroscopy	U Marburg	36
9:30	S. Inacker	Xolography: The physics and chemistry of layerless 3D printing	HU Berlin	37
10:00		Coffee break		
10:15	K. Shakfa	To be announced	Khalifa University	38
10:50	Ibraheem Al-Naib	Biosensing using Metasurfaces at Microwave and Terahertz Frequencies	King Fahd University	39
11:25		Coffee break		
11:55	S. Brackmann	A-TEEM measurements on water for DOC detection	U Marburg	40
12:25	M. Koch	Closing remarks	U Marburg	41