

6th TransMIT Workshop on „Modern Spectroscopic Techniques“

Fetovaia, Elba, Italy

31.5.: Saturday

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

1.6.: Sunday

Chairman: Jan Balzer

TIME	PRESENTER	TOPIC	AFFILIATION	NR.
9:00	M. Koch	Opening Remarks	U Marburg	02
9:35	M. Hofmann	Fast Semiconductor Laser	U Bochum	03
10:10		Coffee break		
10:40	T. Hofmann	ECDL from Off-the-Shelf Components: Construction, Driver Design, and Characterization	U Marburg	04
11:15	E. Castro Camus	Terahertz research at the Centro de Investigaciones en Optica	CIO Mexico	05
11:50		Coffee break		
12:20	S. Ramelow	Fast spectroscopic identification of plastics with undetected mid-IR photons	HU Berlin	06
12:55	Y. Amarasinghe	Luneburg Lens Applications and Leaky Parallel-plate Waveguide Applications in the THz Region	U Aarhus	07
13:30		Lunch break		
14:30 - 16:30		Social Event		08

2.6.: Monday

Chairman: Lars Liebermeister

TIME	PRESENTER	TOPIC	AFFILIATION	NR.
9:00	K. Wenzel	Self-Referenced Conductivity Measurements with THz TDS	HHI Berlin	09
9:35	D. Turchinovich	THz-TDS for simultaneous measurement of optical constants, and material thickness with deep-subwavelength precision	U Bielefeld	10
10:05		Coffee break		
10:35	J. Balzer	Towards Passive Wireless Biosensor Networks in the (sub-) THz Range	U DUE	11
11:10	L. Liebermeister	A Review of photoconductive Antennas	HHI Berlin	12
11:55		Coffee break		
12:25	J. Neu	Ultrafast Terahertz Conductivity of Materials for a Sustainable Future	U North Texas	13
13:00	K. Shakfa	Terahertz spectroscopy for agricultural applications	Khalifa University Abu Dhabi	14
13:30		Lunch break		
14:30 - 16:30		THz-Roadmap Meeting	THz	15

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3.6.: Tuesday

Chairman: R. Heintzmann

TIME	PRESENTER	TOPIC	AFFILIATION	NR.
9:00	J. Limpert	2- μ m-wavelength ultrashort pulse fiber lasers	FSU Jena	16
9:30	I. Pupeza	Lightwave sampling with close-to-ultimate sensitivity	RPTU & ITWM, Kaiserslautern, Leibniz-IPHT Jena	17
10:15		Coffee break		
10:35	J. Ornik	IR-FRS for application at the intensive-care unit	Leibniz-IPHT Jena	18
11:05	F. Lindinger	2- μ m-fiber-laser-driven nonlinear optics for IR-FRS	RPTU Kaiserslautern, Leibniz-IPHT Jena	19
11:35		Coffee break		
11:55	M. Högner	What is the best broadband spectroscopy?	RPTU Kaiserslautern	20
12:25	F. Paries	Two-color-interferometric delay tracking for fast-scan spectroscopy	RPTU & ITWM Kaiserslautern	21
		Lunch break		
14:30 - 17:00		Mid-Infrared Translational Optics Workshop I		22
19:00		Conference dinner		

4.6.: Wednesday

Chairman: Konstantin Wenzel

TIME	PRESENTER	TOPIC	AFFILIATION	NR.
9:00	M. Koch	Journey through the THz world - part II	U Marburg	23
9:35	B. Fischer	THz spectroscopy and imaging for non-destructive testing of ageing effects in protective structures	ISL Saint-Louis	24
10:15		Coffee break		
10:35	M. Hofmann	THz @ PTT	U Bochum	25
11:10	J. Balzer	THz activities in the terahertz systems group at the university of Duisburg-Essen	U DUE	26
11:45		Coffee break		
12:10	M. Wehn	Measurements with an electronic 300 GHz System	HHI Berlin	27
12:50	O. Heckl	TBA		28
13:25		Lunch Break		
14:30	S. Engelbrecht	Reference-free through substrate spectroscopy: a pathway for in-operando measurements	ISL Saint-Louis	29
19:00		Science on the beach		30

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5.6.: Thursday

Chairman: Jan Ornik

TIME	PRESENTER	TOPIC	AFFILIATION	NR.
9:00	I. Pupeza	Enhancement Cavities at the Laboratory of Lightwave Metrology	RPTU & ITWM, Kaiserslautern, Leibniz-IPHT Jena	31
9:30	F. Paries	Spatio-temporally resolved spintronic terahertz emission	RPTU & ITWM, Kaiserslautern	32
10:15		Coffee break		
10:35	M. Högner	TBA	RPTU Kaiserslautern	33
11:05	N. Vieweg	An Industry Perspective on Terahertz Systems	TOPTICA Photonics AG	34
11:35		Coffee break		
11:55	R. Heintzmann	Structured Illumination Microscopy	FSU/Leibniz-IPHT Jena	35
13:00		Lunch		
14:00 - 17:00		Mid-Infrared Translational Optics Workshop II		36

6.6.: Friday

Chairman: Ioachim Pupeza

TIME	PRESENTER	TOPIC	AFFILIATION	NR.
9:00	M. Koch	THz communication technology: How far have we come	U Marburg	37
9:35	T. Doeker (online)	THz Communication: Unlocking a New Frontier – Opportunities, Challenges, and Hurdles	TU Braunschweig	38
10:10		Coffee break		
10:35	N. Vieweg	THz-Measurement Equipment for THz Communication	TOPTICA Photonics AG	39
11:10	R. Heintzmann	Integrated Field Hyperspectral Raman Imaging / Aligning Optical Systems	FSU/Leibniz-IPHT Jena	40
11:25		Lunch		
12:25	H. Alaboz	THz-Filters: From Passive to Tunable with Their Potential Applications	HFU Furtwangen	41
13:00 - 15:30		New THz & Microscopy Projects		42
13:00	M. Koch	Closing remarks	U Marburg	43