

Day 1 (Monday, August, 17 2015)		
10:00 – 12:00	Arrival	
13:00 – 15:00	Registration / Get Together	
15:00 – 17:00	Introduction	
15:00 – 15:30	Welcome and general introduction	Jens Haueisen (Ilmenau)
15:30 – 16:00	Scientific overview and didactic concept	Thomas Knösche (Leipzig)
16:00 – 17:00	Keynote lecture	Risto Ilmoniemi (Helsinki)
From 18:00	Welcome Party	
Day 2 (Tuesday, August, 18 2015) Symposium 1 – Low field magnetic resonance imaging and direct neuronal current imaging (session moderator Nora Höfner)		
09:00 – 09:45	tba	Risto Ilmoniemi (Helsinki)
09:45 – 10:15	tba	Risto Ilmoniemi (Helsinki)
10:15 – 10:30	Coffee break	
10:30 – 11:15	Low-noise system for ULF NMR/MRI	Rainer Körber (Berlin) tbc
11:15 – 12:00	Direct detection of long-lasting neuronal activity by means of ultra-low-field nuclear magnetic resonance	Nora Höfner (Berlin)
12:00 – 13:30	Lunch break	
13:30 – 15:00	Group work introduction	
15:00 – 15:30	Coffee break	
16:00 – 17:30	Martin Luther and Katharina von Bora in Lutherstadt Wittenberg (guided tour)	
Day 3 (Wednesday, August, 19 2015) Symposium 2 – Transcranial magnetic stimulation – new techniques (session moderator Konstantin Weise)		
09:00 – 09:45	Introduction to TMS	Axel Thielscher (Copenhagen)
09:45 – 10:30	Multimodal TMS	Axel Thielscher (Copenhagen)
10:30 – 10:45	Coffee break	
10:45 – 11:15	tba	Risto Ilmoniemi (Helsinki)
11:15 – 11:45	tba	Axel Thielscher (Copenhagen)
11:45 – 12:15	tba	Risto Ilmoniemi (Helsinki)
12:15 – 13:30	Lunch break	
13:30 – 14:15	tba	Axel Thielscher (Copenhagen)
14:15 – 14:45	Uncertainty estimation in TMS	Konstantin Weise (Ilmenau)
14:45 – 15:15	Coffee break	
15:15 – 17:00	Hands-on experience with simulation: uncertainty estimation in TMS	
17:00 – 18:00	Panel discussion	
From 20:00	Soccer match	
Day 4 (Thursday, August, 20 2015) Symposium 3 – Cutting edge techniques in EEG		
09:00 – 15:00 Dry electrodes (session moderator Patrique Fiedler)		
09:00 – 09:30	Introduction to EEG recording techniques	Jens Haueisen (Ilmenau)
09:30 – 10:15	Dry electrode fabrication and laboratory testing	Carlos Fonseca (Porto) Kumaran VEDIAPPAN (Porto)
10:15 – 10:30	Coffee break	
10:30 – 11:00	Characterization of dry electrodes	Patrique Fiedler (Ilmenau)
11:00 – 11:30	Artifact detection and rejection for dry electrode signals	Silvia Comani (Chieti)
11:30 – 11:45	EEG interpolation by source space projection	Melanie Knorr (Leipzig)
11:45 – 12:00	SPHARA – Spatial Fourier analysis for non-uniformly arranged sensors: Application to EEG	Uwe Graichen (Ilmenau)
12:00 – 13:30	Lunch break	
13:30 – 15:00	Practical demonstration and Hands-on experience with dry electrodes	Patrique Fiedler (Ilmenau)
15:00 – 17:30 Mobile EEG (session moderator Steffen Rieger)		
15:00 – 15:15	Coffee break	
15:15 – 16:00	Mobile EEG in sport science	Maurizio Bertollo (Chieti)
16:00 – 17:30	Demonstration and hands-on	Frank Zanow (Berlin)

17:30 – 18:30	Panel discussion	
Day 5 (Friday, August, 21 2015) Full Day excursion		
09:00 – 12:30	Excursion to PTB Berlin	
12:30 – 13:30	Lunch at PTB	
15:00 – 17:00	Guided tour at the German parliament building	
17:00 – 22:00	Visiting Berlin individually	
Day 6 (Saturday, August, 22 2015) Symposium 4 – Instrumentation development projects (session moderator Tim Kunze)		
09:00 – 10:00	How to manage instrumentation development projects?	Silvia Comani (Chieti)
10:00 – 10:15	Coffee break	
10:15 – 11:00	Standardization in biomedical instrumentation	Lukasz Piatek (Ilmenau)
11:00 – 11:45	Research Methodology: Experimental Design of studies for the validation of new instrumentation	Maurizio Bertollo (Chieti)
11:45 – 12:30	Panel discussion	
12:30 – 13:30	Lunch break	
14:00 – 18:00	Canoe tour	
Day 7 (Sunday, August, 23 2015) Full Day excursion		
09:00 – 18:00	Trip to Wörlitzer Park	
From 19:00	Barbecue	
Day 8 (Monday, August, 24 2015) Symposium 5 – Multi-channel direct and alternating transcranial current stimulation (session moderator Alexander Hunold)		
09:00 – 09:45	Introduction to tDCS and tACS	Michael Nitsche (Göttingen)
09:45 – 10:30	Instrumentation for multi-channel stimulation	Klaus Schellhorn (Ilmenau)
10:30 – 10:45	Coffee break	
10:45 – 11:15	Application of multi-channel stimulation	Michael Nitsche (Göttingen)
11:15 – 11:45	Simulation of multi-channel stimulation	Alexander Hunold (Ilmenau)
11:45 – 13:30	Lunch break	
13:30 – 14:00	Safety issues in multi-channel stimulation	Stefanie Freitag (Ilmenau)
14:00 – 15:00	Practical demonstration of multi-channel stimulation	Klaus Schellhorn (Ilmenau)
15:00 – 15:30	Coffee break	
15:30 – 17:30	Hands-on experience with multi-channel stimulation	
17:30 – 18:30	Panel discussion	
Day 9 (Tuesday, August, 25 2015) Symposium 6 – New sensors in MEG (session moderator Stefanie Freitag)		
09:00 – 09:45	Introduction to MEG Sensors	Thomas Knösche (Leipzig)
09:45 – 10:15	Optically pumped magnetometers	tba
10:15 – 10:30	Coffee break	
10:30 – 11:15	tba	tba
11:15 – 12:00	Novel manufacturing techniques and working modes of optically pumped magnetometers for magnetic field imaging	Volkmar Schultze (Jena)
12:00 – 13:30	Lunch break	
13:30 – 14:30	Applications of optically pumped magnetometers in MEG	Tilman Sander-Thömmes (Berlin)
14:30 – 15:15	Biomagnetic field measurement with giant magnetoresistance sensors	Myriam Pannetier-Lecoer (Gif-sur-Yvette)
15:15 – 15:30	Coffee break	
15:30 – 17:30	Group work / Self-study time	
17:30 – 18:30	Panel discussion	
Day 10 (Wednesday, August, 26 2015) Group work and team building		
09:00 – 18:00	Group work / Self-study time	
Day 11 (Thursday, August, 27 2015) Project work		
09:00 – 12:00	Group work	
12:00 – 13:00	Lunch break	
13:00 – 15:00	Group work: review finalization and submission	
15:30 – 18:00	Group work: presentation finalization	
Day 12 (Friday, August, 28 2015) Project work		

09:00 – 12:30	Project presentations	
12:30 – 13:30	Lunch break	
13:30 – 14:30	Group work: feedback on reviews and presentations	
14:30 – 15:00	Coffee break	
15:00 – 16:00	Closing ceremony	Jens Haueisen (Ilmenau) & Thomas Knösche (Leipzig)
From 20:00	Closing party	
Day 13 (Saturday, August, 29 2015)		
From 10:00	Departure	