

Wednesday, 10 December 2025

Talk number	Time	Duration	Description	Speaker	Speaker Institution
	09:00	00:30	Registration Morning coffee/tea		
	09:30	00:10	Welcome address / Conference Opening	Steve Williams / Flavio D'Acqua	King's College London
Session 1		Update on hardware / acquisition methods / safety			Moderator: Seungkyun Lee
1	09:40	00:12	MAGNUS systems : status and recent developments	Thomas Foo	GE HealthCare
2	09:52	00:12	Ultra-high resolution diffusion - tractography	Chu-Yu Lee	U of Iowa
3	10:04	00:12	Connectome 2 pushing hardware	Susie Huang	Mass General Hospital - MGB
4	10:16	00:12	OPTIKS: Optimized Gradient Properties Through Timing in k-Space	Matthew McCready	Stanford University
	10:28	00:20	Discussion		
5	10:48	00:12	Translational MRI studies of brain architectomes and connectomes	Ed Bullmore	King's College London
	11:00	00:20	Break		
Session 2		Mesoscale			Moderator: John Polimeni
6	11:20	00:12	Advances in in-vivo histology using MRI	Nik Weiskopf	MPI-CBS, Leipzig

7	11:32	00:12	Mesoscale fMRI	Jon Polimeni	Stanford University
8			Exploring MAGNUS for moment-nulled 3D acquisition and measuring muscle water diffusion	Stephan Maier	Brigham and Women's Hospital
	11:44	00:12			
	11:56	00:20	Discussion		
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	12:20	01:00	Lunch		
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Session 3		Psychiatric Apps / Psychiatry		Moderator: Steve Williams	
9	13:20	00:12	ZTE applications on MAGNUS	Florian Wiesinger	GE HealthCare
10			Neurodevelopment in a pediatric population	Derek Jones	Cardiff Univ - CUBRIC
11	13:32	00:12			
11	13:44	00:12	High resolution dMRI and initial application in Alzheimer's disease	Allen Song	Duke University
12			Neuropsychology in China: Sub- disciplinary evolution opportunities on		West China Hospital, Sichuan University
12	13:56	00:12	MAGNUS	Su Lui	
	14:08	00:20	Discussion		
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Session 4		Neurology/Neurosurgery		Moderator: Flavio Dell'Acqua and Carl-Fredrik Westin	
13	14:30	00:12	TBI / Repetitive Blast Exposure	Doug Morris	Uniformed Services University
14	14:42	00:12	Neurosurgery - Francesco Vergani	Francesco Vergani	King's College Hospital
15			Neurosurgery and microstructure on MAGNUS	Alex Golby	Brigham and Women's Hospital
15	14:54	00:12			

16			Multiparametric Quantitative MR Characterization of Meningiomas, Skull Base Tumors, and Deep Cervical Lymph Nodes	Jeffrey Guenette	Brigham and Women's Hospital
	15:06	00:12	Discussion		

	15:40	00:20	Break		
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17	Session 5		Panel driven group discussion: Emerging role of High Performance Systems in Research & Clinical settings		Moderator: Duan Xu and Suchi Banerjee
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18	16:00	00:48			
	16:48	00:12	SIGNA MAGNUS : From research to clinical adoption	- Survey results	Rob Peters / Yves Freyne GE HealthCare

	17:00	Adjourn for the Day	
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	18:00	Social Event	
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Thursday, 11 December 2025			
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Time	Duration	Description	Speaker
09:00	00:30	Registration	

Morning coffee/tea				
Session 6		Physiology and Pathology to Imaging		Moderator: Charles Guttmann
19	09:30	00:12	Neurovascular coupling - animal to human translation	Serge Charpak Institute de la Vision - Paris
20	09:42	00:12	Brain tissue composition in multiple sclerosis: from MRI to genomic analysis and back	Charles Guttmann Brigham & Women's Hospital - MGB
21	09:54	00:12	Conduction Speed	Derek Jones Cardiff Univ - CUBRIC
22	10:06	00:12	Quantitative changes in interstitial flow as functional changes	Nastaren Abad GE HealthCare
	10:18	00:20	Discussion	
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	10:40	00:20	Break	
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Session 7		Metabolism		Moderator: Duan Xu
23	11:00	00:12	CEST imaging	Florian Kroh Brigham & Women's Hospital - MGB
24	11:12	00:12	1H and 31P magnetic resonance spectroscopic imaging for mapping brain metabolism	Lijing Xin Centre for Biomedical Imaging - Lausanne
25	11:24	00:12	Hyperpolarized 13C MRI in ALS: From Metabolic Insight to Clinically Meaningful Exams	Christoffer Laustsen Aarhus University
26	11:36	00:12	Deuterium Metabolic Imaging of the Brain	Ferdia Gallagher University of Cambridge
	11:48	00:20	Discussion	
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12:10	01:00	Lunch		
Session 8		Neurofluids		Moderator: Michele and Fernando
27	13:10	00:12	Gadolinium-Free Mapping of BBB breakdown	Juan Hernandez Erasmus University
28	13:22	00:12	MRI Insights into CSF Dynamics: Advances from Animal Models	Yann Decker Saarland University, Homburg, GER
29	13:34	00:12	Non-invasive MRI of Cerebrospinal Fluid Physiology	Jack Wells UCL
30	13:46	00:12	In vivo imaging of tissue-to-fluid water exchange using T2 selective saturation	David Alsop Beth Israel Hospital
13:58		00:20	Discussion	
14:18		00:20	Break	
Session 9		Fast imaging		Moderator: Yunhong Shu
31	14:40	00:12	Fast Quantitative MRI at High Field	Tony Stoecker Deutches Zentrum fur Neurodegenerative Erkrankungen (DZNE) [German Center for Neurodegenerative Diseases]
32	14:52	00:12	Fast and precise MRI	Zachary Shah Stanford University
33	15:04	00:12	Sequence Design to optimize SNR efficiency	Jim Pipe Univ of Wisconsin - Madison
34	15:16	00:12	Clinical Experience with NeuroMix for Fast Brain MRI	Eugene Milshteyn & Tim Sprenger GE HealthCare
15:28		00:20	Discussion	

35	Session 10	Panel discussion: Why do we need High Performance Systems?	Moderator: Duan Xu and Suchi Banerjee
15:48	00:48		
16:36	00:12	Closing Remarks	Steve Williams / Flavio Dell'Acqua
16:48		Adjourn for the Day	