

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	11:44	00:12	Exploring MAGNUS for moment-nulled 3D acquisition and measuring muscle water diffusion	Stephan Maier	Brigham and Women's Hospital
	11:56	00:20	Discussion		
	12:20	01:00	Lunch		
	Session 3		Psychiatric Apps / Psychiatry		Moderator: Steve Williams
9	13:20	00:12	ZTE applications on MAGNUS	Florian Wiesinger	GE HealthCare
10	13:32	00:12	Neurodevelopment in a pediatric population	Derek Jones	Cardiff Univ - CUBRIC
11	13:44	00:12	High resolution dMRI and initial application in Alzheimer's disease	Allen Song	Duke University
12	13:56	00:12	Neuropsychology in China: Sub-disciplinary evolution opportunities on MAGNUS	Su Lui	West China Hospital, Sichuan University
	14:08	00:20	Discussion		
	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	14:54	00:12	Neurosurgery and microstructure on MAGNUS	Alex Golby	Brigham and Women's Hospital

16	15:06	00:12	Multiparametric Quantitative MR Characterization of Meningiomas, Skull Base Tumors, and Deep Cervical Lymph Nodes	Jeffrey Guenette	Brigham and Women's Hospital
	15:18	00:20	Discussion		
	15:40	00:20	Break		
17	Session 5		Panel driven group discussion: Emerging role of High Performance Systems in Research & Clinical settings		Moderator: Duan Xu and Suchi Banerjee
	16:00	00:48			
18	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		
	18:00		Social Event		
Thursday, 11 December 2025					
	Time	Duration	Description	Speaker	
	09:00	00:30	Registration		

Morning coffee/tea					
Session 6		Physiology and Pathology to Imaging			Moderator: Charles Guttman
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 Guttman	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		
	10:40	00:20	Break		
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	¹ H and ³¹ P magnetic resonance spectroscopic imaging for mapping brain metabolism	Lijing Xin	Centre for Biomedical Imaging - Lausanne
25	11:24	00:12	Hyperpolarized ¹³ C 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		

	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	Deutsches Zentrum für 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		