

Date / Time	Page	Lead Author / Moderator(s)	Title
Sunday 11th July, 2004			
12:00	iii	Paul Summers & Peter Boesiger	Welcoming Address
12:05		Roderic Pettigrew	Keynote Speech
12:50	2	Colin Caro	Plenary Lecture - Flow in Vascular Physiology and Pathology
13:25		Anton Valavanis	Plenary Lecture - Interacting Luminal, Mural & Subarachnoid Components of Cerebral Aneurysms: Implications for Imaging and Treatment
14:00			Break
14:15	4	Philip Kilner	Plenary Lecture - Flow in Cardiovascular Disease
14:50	6	Charles Kerber	Plenary Lecture - Flow in Neurovascular Disease
15:20		Eric Pedersen	Focus Talk - Principles of MR Flow Measurement
16:00			Break
16:20		Sebastian Kozerke & Erik Pedersen	Topic Session - Flow MRI: Reay for Prime Time?
16:21	8	Romhild Hoogeveen	Quantitative Flow Measurement: Precision, Accuracy, Spatial and Temporal Resolution
16:39	9	Sebastian Kozerke	Measurement Accuracy: Eddy, Maxwell and 3T
16:57	11	Klaus Scheffler	Phase Contrast SSFP: Velocity Mapping of the Future?
17:15	13	Lars Wigström	Particle Tracing and Pressure Calculation
17:33	15	Jeff Tsao	Accelerating Cine Flow Measurement with k-t BLAST & k-t SENSE
17:51		Paul Summers	Announcements
17:58		David Firmin	Proffered Papers Session
17:59	80	J. Tim Marcus	Correction of Phase Errors in Cine Phase-contrast MR Velocity Quantification
18:07	82	Ludovic de Rochefort	Velocity-slice Selection
18:15	84	Michael Schacht Hansen	Accelerated Fourier Velocity Encoding by Exploiting Velocity-Spatial-Temporal Correlations
18:23	86	Maria Salfity	Improving Velocity to Noise Ratio and Extending Dynamic Range of Phase Contrast Magnetic Resonance Velocity Imaging with 3-D and 4-D Unwrapping Methods
18:39	88	Christopher Macgowan	Evaluation of Segmental Pulmonary Blood Flow Using Phase Contrast MRI and Correlation Analysis

Date / Time	Page	Lead Author / Moderator(s)	Title
Monday 12th July, 2004			
8:30	17	David Saloner	Focus Talk - Vascular Flow Imaging
9:10		David Firmin & Jürg Schwitter	Topic Session - Cardiovascular Applications & Implications of Flow & Motion
9:11	19	Jennifer Keegan	Coronary Flow Measurement
9:29	21	Peter Börnert	How to Cope With Motion in Coronary MRA
9:47	23	Bernd Jung	New Advances in Tissue Phase Mapping
10:05	25	Jacques Bittoun	From Flow to Pressure: Estimation of Pressure Gradient and Derivative by MR Acceleration Mapping
10:23	27	Michael Bock	Catheter-based Real-time Flow Measurement
10:41	29	Martin Graves	Flow & Motion Study Group Proposed Multi-Center Trial on Aortic & Pulmonary Flow
10:55			Break
11:10		Noam Alperin & Spyros Kollias	Topic Session - Intracranial Hemodynamics & Hydrodynamics
11:11	31	Roy Weller	The Role of CSF and Interstitial Fluid in Health and Neurological Disease
11:36	33	Noam Alperin	From Hemo-Hydrodynamic Linkage to Non-invasive Intracranial Pressure Measurement by Phase Contrast (MR-ICP)
12:01	35	Mike Egnor	The Cranium as an Oscillator; Analysis of Phase Relationships in Intracranial Blood and CSF Pulsations Using Flow-sensitive MRI
12:19	37	Olivier Baledent	Blood and CSF Flow in Neuro-hydrodynamic Related Diseases
12:37			Lunch Break

Date / Time	Page	Lead Author / Moderator(s)	Title
Monday 12th July, 2004			
14:00		Jürg Schwitter & Adriana Campi	Topic Session - Flow and Perfusion
14:01	39	Jeroen van der Grond	Measuring Cerebral Hemodynamics
14:19	42	Jürg Schwitter	Myocardial Perfusion Imaging with Conventional Extravascular Contrast Media
14:37	45	Jens Bremerich	Intravascular Contrast Agents
14:55	47	Peter Gatehouse	Accurate Measurement of the Arterial Input Function in High-dose Myocardial Perfusion MRI
15:13	49	Denis Ducreux	Realities in MR Perfusion Mapping of the Brain
15:31		Ian Marshall & David Steinman	Topic Session - In-vivo Wall Shear Stress
15:32	50	Ian Marshall	Wall Shear Stress at the Limits of Resolution
15:50	51	John Oshinski	Direct Estimation of Wall Shear Stress by MRI
16:08	53	Erik Pedersen	Vascular Imaging and Wall Shear Stress
16:26	54	Erik Bekkers	Quantification of Wall Shear Stress using 4D PCMRI
16:44			Break
17:05		Christopher Macgowan	Proffered Papers Session
17:06	90	Loïc FIN	Non-invasive In-vivo Investigation of Carotid Arteries Mechanical Properties: Combination of MRI and Numerical Simulation
17:14	92	Guy Kongolo	An Electrical Analog Model of Brain Hydrodynamics Validated by Flow-sensitive MRI
17:22	94	Frieke Box	In Vivo Wall Shear Stress Assessment in the Carotid Bifurcation by a Combination of the Finite Element Approach and MRI
17:31	96	Prof Andrew Kiruluta	Motion Correction in High-Resolution Coronary MRI Using Measurements from Intra-Vascular Tracking Catheters
17:39	98	Marcel Rutten	Functional Analysis of Aortic Valve Prostheses: Shear rate Assessment Using MRI
17:47	100	Vinay Pai	High Spatial and Temporal Resolution Myocardial Tagging in a Free-breathing Exam Using Multi-echo SSFP and PAGE
17:55	102	Stefanie Pertschy	Postoperative Diastolic Regurgitation of Left to Right Pulmonary Artery in Patients with Competent Pulmonary Valve Replacement Demonstrated by MR Phase Contrast Flow Measurements
18:03		Sebastian Kozerke	Vendor's View Session
18:05		Marc Kouwenhoven	Philips Medical Systems
18:20		Carmel Hayes	Siemens Medical Solutions
18:35		Jason Polzin	GE Healthcare
18:50		Ralf Kroeger	Fluent GmbH
19:05		Paul Summers	Announcements
20:00			Social Event

Date / Time	Page	Lead Author / Moderator(s)	Title
Tuesday 12th July, 2004			
8:00		Christopher Macgowan & Paul Summers	Panel Session: Guidelines for Clinical & Research Use
8:30	56	C. Ross Ethier	Focus Talk - Computational Fluid Dynamics: What Can and Can't It Do?
9:10		David Steinman & Ian Marshall	Topic Session - Vascular Computational Fluid Dynamics (CFD)
9:11	58	David Steinman	Challenges for Longitudinal Image-based CFD Studies
9:29	60	X Yun Xu	Image-based CFD Modeling of the Carotid Bifurcation
9:47	62	Liang-der Jou	Hemodynamics and Morphological Changes of Cerebral Aneurysms
10:05	65	Francesco Migliavacca	CFD and Paediatric Cardiac Surgery
10:23	66	Charles Taylor	MRI-based CFD: Patient-specific Models for Treating Aortoiliac and Pulmonary Vascular Disease
10:41			Break
11:00		Yiannis Ventikos & Ross Ethier	Topic Session - Advanced Topics in Vascular CFD
11:01	68	Yiannis Ventikos	The Role of CFD in Simulation of Biomedical Systems
11:19	70	Shankar Sundaram	A Computational Model Combining Vascular Biology and Hemodynamics for Thrombosis Prediction in Anatomically Accurate Cerebral Aneurysms
11:37	72	Spencer Sherwin	Patient Based MRI-CFD Study of Infringuinal Distal Bypass Grafts
12:55	74	Peter Walker	MRI-based CFD Prediction of Mass Transport in Arteries
12:13	76	Makoto Ohta	Experience in In-vitro Modeling of Intracranial Aneurysms
12:31		David Steinman	Proffered Papers Session
12:34	104	Neil Bressloff	Parametric Geometry Modeling of the Carotid Artery Bifurcation: The Need for New Flow Metrics.
12:42	106	Jason Beech-Brandt	Low-Reynolds Number Turbulence Modelling in a Realistic Stenosed Carotid Artery Geometry
12:50	108	Ajit Yoganathan	Flow Dynamics of the Anatomic TCPC: An Integrated MRI, In-Vitro Experimentation, and CFD Approach for Surgical Applications
12:58	110	Katia Laganà	Application of the Multiscale Approach to Investigate Fluidynamics in Surgical Procedures for the Treatment of Congenital Heart Diseases
13:06	112	Raghavendra Chandrashekhara	Combined Visualization and Analysis of Blood Flow and Motion in the Left Ventricle
13:14	114	Quan Long	Study of Flow Patterns in Left Ventricle by the Combination of CFD and MRI
13:22	116	John Oshinski	Flow Patterns in the Proximal Coronary Arteries Determined from MRI and CFD – Relation to Localization of Atherosclerotic Plaques
13:30	118	Juan Cebral	Evaluation of Image-based CFD Models of Cerebral Aneurysms Using MRI
13:38		Paul Summers	Closing Remarks

Posters	Page	Lead Author	Title
	121	Nasreddin Abolmaali	Detection and Quantification of Pulmonary Arterial Hypertension Caused by Increased Pulmonary Resistance Using MR Flow Measurements
	123	Evangelos Boutsianis	Anatomically Accurate Computational Hemodynamics in the Aorta and the Coronary Arteries
	124	Vidyasagar Casikar	Observations on the Flow of Blood in Experimental Arteriovenous Fistulae
	125	Iordanis Chatziprodmou	Cerebral Aneurysm Genesis: A Computational Model
	126	Lindsey Crowe	3D Volume Selective Turbo Spin Echo Imaging For Carotid Artery Wall Imaging With Navigator Detection of Swallowing
	128	Lindsey Crowe	Identification and Removal of Residual Signal from Slow Flowing Blood in 3D Volume Selective Turbo Spin Echo Arterial Wall Imaging Using a Velocity Sensitive Phase Reconstruction Method.
	130	Lindsey Crowe	Real-Time Flow Measurement using Spiral RF pulse and EPI Readout During Breath-hold and Free Breathing
	132	Sandro De Gruttola	Computation Simulation for the Apheresis Process with a Non-Newtonian Model
	133	Pramote Hochareon	Stereoscopic Particle Image Velocimetry, a Parallel In-vitro Measurement of In-vivo Flow Studies for Cardiovascular Fluid Mechanic Applications
	135	Permi Jhooti	Phase ordering with Automatic Window Selection (PAWS) with Half Fourier for Increased Scan Efficiency and Image Quality
	137	Vartan Kurtcuoglu	CSF Pressure and Flow Calculation in the Ventricular Space Using CFD
	138	Tosiaki Miyati	Evaluation of Intracranial Elastance Using MRI in Patient with Normal-pressure Hydrocephalus
	140	Dr. Regina Mudra	Monte Carlo Simulation to Verify Near- infrared Spectroscopy
	142	Johannes Peeters	Analysis and Correction of Off-center Gradient Non-linearity and B ₀ Inhomogeneity Related Scaling Errors in Phase Contrast Flow Measurements
	144	Mr. Simone Pittaccio	MRI-based Multiscale Models for the Haemodynamic and Structural Evaluation of Surgically Reconstructed Aortic Arches
	146	Dr. Oliver Wieben	MR Flow Measurements in the Iliac Artery during Reactive Hyperemia
	148	Dr. Meide Zhao	In Vitro Validation of MR Volumetric Flow Measurements