CMBE11 Guide

Conference Venue: Mason Inn Conference Center and Hotel
Registration between 17:00 and 19:00 hrs, 29th March 2011 and from 08:00 hrs, March 30th 2011.

Washington D.C.
March 30th – April 1st, 2011
Co-Chairs: Perumal Nithiarasu and Rainald Löhner

List of Sessions:

Mini-Symposium 1 (MS-1) Cerebral Arteries
Chair: Juan R. Cebral, Christopher M. Putman and Jay Humphrey

Mini-Symposium 2 (MS-2) Heart Valve Modelling
Chair: Raoul van Loon and Daniel Einstein

Mini-Symposium 3 (MS-3) Biomechanical Imaging
Chair: Paul E. Barbone, Assad A. Oberai and Isaac Harari

Mini-Symposium 4 (MS-4) Fluid Structure Interaction in Haemodynamics
Chair: Luca Formaggia, Fabio Nobile, Christian Vergara

Mini-Symposium 5 (MS-5) High Performance Computational Biomechanics
Chair: Mariano Vázquez, Guillaume Houzeaux and Raúl Cebral

Mini-Symposium 6 (MS-6) Meshing Challenges in Subject-Specific Biomedical Modelling
Chair: Igor Sazonov and Perumal Nithiarasu

Mini-Symposium 7 (MS-7) Shape and Deformable Modelling in Biomedical Image Analysis
Chair: Xianghua Xie and Majid Mirmehdi

Mini-Symposium 8 (MS-8) Inverse Vascular Mathematics
Chair: Alessandro Veneziani and Christian Vergara

Mini-Symposium 9 (MS-9) Processing and Analysis in Biomedical Imaging
Chair: João Manuel R. S. Tavares, R. M. Natal Jorge and Yongjie Zhang

Mini-Symposium 10 (MS-10) Methods of Numerical Cardiac Electro-Mechanics
Chair: Lucia Mirabella, Mauro Perego and Alessandro Veneziani

Standard Session 1 (SS-1) Numerical Modelling
Chair: Guowei Wei

Standard Session 2 (SS-2) Respiratory
Chair: Igor Sazonov

Standard Session 4 (SS-4) Cardiovascular
Chair: Raoul Van Loon and G.R. Liu

Standard Session 5 (SS-5) Surgical Simulation
Chair: Karol Miller

Standard Session 6 (SS-6) Analysis Models
Chair: Rhodri Bevan

Standard Session 7 (SS-7) Blood
Chair: Xianghua Xie and Juan R. Cebral

CMBE11 Day 1, 30th of March, 2011

08:45	09:00	Conference opening – Perumal Nithiarasu/Rainald Löhner/Guest			
09:00	10:00	Opening lecture – Professor Peter Hunter, Chair: Professor Nic Smith *(Junior Ballroom)*			
10:00	10:30	Keynote – Professor Ge Wang, Chair: Professor Guowei Wei *(Junior Ballroom)*			
10:30	11:00	Coffee/Tea			
		Junior Ballroom	*SUBII Front Ballroom*	*SUBII Middle Ballroom*	*SUBII Back Ballroom*
11:00	11:20	**MS1 - Cerebral Arteries:** A NUMERICAL STUDY ON THE FEASIBILITY OF ANEURYSM PROPERTY IDENTIFICATION AT THE PRESENCE OF UNKNOWN STRESS-FREE GEOMETRY, **J. Lu, X. Zhao**	**MS2 - Heart Valves:** APPLICATION OF GRADIENT WEIGHTED MOVING FINITE ELEMENTS TO LAGRANGIAN BIOMEDICAL FLUID-STRUCTURE INTERACTION PROBLEMS, **A. P. Kuprat, F. del Pin, K.S. Kunzelman, D.R. Einstein**	**MS3 - Biomechanical Imaging:** BREAST LINEAR AND NONLINEAR REAL-TIME ULTRASOUND ELASTOGRAPHY, **A. Samani S. Shavakh, M. Amooshahi, S.R. Mousavi**	**MS4 - FSI and Multiphysics:** FSI ANALYSIS OF A DISEASED HUMAN TRACHEA BEFORE AND AFTER PROSTHESIS IMPLANTATION, **M. Malvè, A. Pérez del Palomar, S. Chandra, J.L. López-Villalobos, E. Finol, A. Ginel, M. Doblaŕe**
11:20	11:40	**MS1 - Cerebral Arteries:** VORTEX CORELINE DETECTION FOR THE ANALYSIS OF BLOOD FLOW PATTERNS IN CEREBRAL ANEURYSMS, **G.Byrne, F. Mut, J.R. Cebral**	**MS2 - Heart Valves:** SIMULATING AORTIC HEART VALVE DYNAMICS BY THE IMMERSED BOUNDARY METHOD, **B.E. Griffith**	**MS3 - Biomechanical Imaging:** AN ERROR IN CONSTITUTIVE EQUATIONS APPROACH FOR ELASTICITY IMAGING, **W. Aquino, M. Bonnet**	**MS4 - FSI and Multiphysics:** VALIDATION AND COMPARISON AMONG DIFFERENT FLUID-STRUCTURE INTERACTION SCHEMES, **F. Nobile, M. Pozzoli, C. Vergara**
11:40	12:00	**MS1 - Cerebral Arteries:** PATIENT-SPECIFIC MODELLING OF CEREBRAL ANEURYSM EVOLUTION, **P.N. Watton, A. Selimovic, H. Chen, H. Thompson, Y. Ventikos**	**MS2 - Heart Valves:** A SIMPLE VERSATILE MODEL OF VALVE DYNAMICS FOR USE IN LUMPED PARAMETER AND ONE-DIMENSIONAL CARDIOVASCULAR MODELS, **J.P. Mynard, M.R. Davidson, D.J. Penny, J.J. Smolich**	**MS3 - Biomechanical Imaging:** CORRELATION OF BIOMECHANICS TO TISSUE REACTION IN AORTIC ANEURSYMS ASSESSED BY FEM AND FDG-PET-CT, **M.W. Gee, W.A.Wall, A. Maier, C. Reeps, M. Essler**	**MS4 - FSI and Multiphysics:** FSI ANALYSIS OF A HUMAN CAROTID BIFURCATION UNDER IMPEDANCE-BASED BOUNDARY CONDITIONS, **M. Malvè, S. Chandra, A. García, M.A. Martínez, E. Finol, M. Doblaré**
12:00	12:20	**MS1 - Cerebral Arteries:** FLUID-STRUCTURE INTERACTION SIMULATION OF CEREBRAL ANEURYSM WITH THE EFFECTS OF PERIPHERAL NETWORK, **M. Oshima, M. Toma, A. Krdy, S. Takagi**	**MS2 - Heart Valves:** A REALISTIC COMPUTATIONAL MODEL TO SIMULATE AORTIC VALVE REPAIR, **M.R. Labrosse, M. Boodhwani, C.J. Beller**	**MS3 - Biomechanical Imaging:** 4D IMAGE-BASED CFD OF A COMPLIANT VESSEL, **E. Haber, L. Mirabella, T. Passerini, M. Piccinelli, A. Veneziani**	**MS4 - FSI and Multiphysics:** ADVANCED COMPUTATIONAL APPROACHES FOR FLUID-STRUCTURE INTERACTION IN HEMODYNAMICS, **W.A.Wall, M.W. Gee, T. Klöppel, U. Küttler, A. Popp**
12:20	12:40	**MS1 - Cerebral Arteries:** AN EQUIVALENT WALL THICKNESS ESTIMATION FOR CEREBRAL ANEURYSMS, **E. L. Johnson, Y. Zhang, K. Shimada**	**MS2 - Heart Valves:** THE INFLUENCE OF THE UPSTREAM BOUNDARY CONDITION IN THE NUMERICAL SIMULATION OF THE OPENING OF AN AORTIC BMHV, **S. Annerel, J. Degroote, T. Claessens, P. Van Ransbeeck, P. Segers, P. Verdonck, J. Vierendeels**	**MS3 - Biomechanical Imaging:** 4D IMAGE-BASED APPROACH FOR CFD IN COMPLIANT BLOOD VESSELS, **L. Mirabella, M. Piccinelli, T. Passerini, M. Restrepo, E. Haber, A.P. Yoganathan, A.Veneziani**	**MS4 - FSI and Multiphysics:** MORPHOGENESIS: A MULTIPHYSICS MODEL FOR CELL MECHANICS, **D. Aubry, R. Allena**

12:40	14:10	Lunch			
14:10	14:40	Keynote – Professor Karol Miller, Chair: Professor Wolfgang Wall *(Junior Ballroom)*			
		Junior Ballroom	*SUBII Front Ballroom*	*SUBII Middle Ballroom*	*SUBII Back Ballroom*
14:40	15:00	**MS1 - Cerebral Arteries:** INTRACRANIAL ANEURYSMS: STUDY OF X-RAYS TIME-INTENSITY-CURVES (TIC) PULSATILITY, **R. Ouared, O. Brina, O. Bonnefous, A Groth, T Brunjs, D. Babic, P. Bijlenga, K Schaller, K. Lovblad, V. Pereira**	**MS2 - Heart Valves:** IN-VIVO DYNAMIC STRESS HISTORY OF THE MITRAL VALVE ANTERIOR LEAFLET, **R. Amini, C.E. Eckert, C.A. Carruthers, K. Koomalsingh, M. Minakawa, J.H. Gorman, R.C. Gorman, M.S. Sacks**	**MS3 - Biomechanical Imaging:** MICROCRACK LOCAL STRESS FIELD IN HUMAN HAVERSIAN CORTICAL BONE, **E. Budyn, J. Jonvaux, T. Hoc**	**SS1 - Numerical Modelling:** ACOUSTICAL ANALYSIS OF SWALLOWING MECHANISM, **S.S. Shirazi, Z. Moussavi**
15:00	15:20	**MS1 - Cerebral Arteries:** CONTRIBUTIONS OF IMAGE-BASED CFD TO THE EVALUATION OF INTRACRANIAL ANEURYSMS RUPTURE RISK, **J.R. Cebral, F. Mut, D. Sforza, C.M. Putman**	**MS2 - Heart Valves:** IMAGING-BASED CARDIAC VALVE LAGRANGIAN-FSI IN LS-DYNA, **F. Del Pin, D.R. Einstein, A.P. Kuprat, X. Jiao, J.P. Carson, K.S. Kunzelman**	**MS3 - Biomechanical Imaging:** MOTION TRACKING STRATEGIES FOR BIOMECHANICAL IMAGING, **T.J. Hall, J. Jiang**	**SS1 - Numerical Modelling:** TIME-DOMAIN ULTRASONIC WAVE PROPAGATION IN ANISOTROPIC POROELASTIC BONE PLATE, **V-H Nguyen, S. Naili**
15:20	15:40	**MS1 - Cerebral Arteries:** COMPUTATIONAL AND STATISTICAL ANALYSIS OF ICA MORPHOLOGY AND HEMODYNAMICS, **T. Passerini, M. Piccinelli, A. Veneziani, L.M. Sangalli, P. Secchi, S. Vantini**	**MS2 - Heart Valves:** OPTIMAL UNLOADED LEAFLET SHAPE FOR THE OVINE PULMONARY VALVE SINGLE LEAFLET REPLACEMENT SURGERY, **R. Fan, C.M. Hobson, A. Bayoumi, J.E. Mayer, W.R. Wagner, M.S. Sacks**	**MS3 - Biomechanical Imaging:** MODELING SHEAR WAVES IN SOFT TISSUE RESULTING FROM ACOUSTIC RADIATION FORCE EXCITATION, **K.H.F. Lee, A.M. Maniatty**	**SS1 - Numerical Modelling:** A NON-LINEAR HOMOGENEOUS MODEL FOR BONE-LIKE MATERIALS UNDER COMPRESSIVE LOAD., **M. Mengoni, R. Voide, D. Toye, A. Léonard, G.H. van Lenthe, J.P. Ponthot**
15:40	16:10	Coffee/tea			
16:10	16:30	**MS1 - Cerebral Arteries:** EFFECT OF FLOW DIVERTERS ON IA FLOW DYNAMICS: ASSESSMENT IN 23 ANEURYSMS, **I. Larrabide, M. Aguilar, H. Morales, S. Cito, D. Rüfenacht, Z. Kulcsar, S.Wetzel, A.F. Frangi**	**MS5 - High Performance Computing:** MODELLING BLOOD FLOW THROUGH SUBJECT-SPECIFIC CAROTID BIFURCATIONS WITH PARTICULAR ATTENTION TO WALL SHEAR STRESS, **R.L.T. Bevan, P. Nithiarasu, R. van Loon, I. Sazonov, H. Luckraz**	**SS2 - Respiratory:** COMPUTATIONAL ANALYSIS OF DROPLET EVAPORATION AND DEPOSITION IN A REALISTIC RESPIRATORY TRACT SUBJECT TO PUFF-LIKE INHALATION WAVEFORMS, **Y. Feng, C. Kleinstreuer**	
16:30	16:50	**MS1 - Cerebral Arteries:** TECHNIQUES FOR AUTOMATIC ANEURYSM NECK PLANE DETECTION AND GEOMETRIC CHARACTERIZATION OF 3D ANEURYSMAL SAC, **M. Piccinelli, Y. Hoi, A. Veneziani, D.A. Steinman, L. Antiga**	**MS5 - High Performance Computing:** NUMERICAL SIMULATION OF BLOOD FLOWS AROUND AORTIC VALVE LEAFLETS BY VIRTUAL FLUX METHOD, **T. Fukui, K. Morinishi**	**SS2 - Respiratory:** COMPUTATIONAL MODEL OF TISSUES IN THE HUMAN UPPER AIRWAY, **J-P.V. Pelteret, B.D. Reddy**	
16:50	17:20	Keynote – Professor David Steinman, Chair: Professor Juan Cebral *(Junior Ballroom)*			
18:00	20:00	Wiley's Drinks Reception			

CMBE11 Day 2, 31st of March, 2011

09:00	10:00	Plenary lecture – Professor Wing Kam Liu, Chair: Professor Rainald Löhner *(Grand Ballroom)*			
10:00	10:30	Keynote – Professor Nic Smith, Chair: Professor Peter Hunter *(Grand Ballroom)*			
10:30	11:00	Coffee/tea			
		Grand Ballroom	*Junior Ballroom A*	*Junior Ballroom B*	*Meeting Room 1*
11:00	11:20	**MS1 - Cerebral Arteries:** SENSITIVITY TO MATHEMATICAL MODEL CHOICE AND LEVEL OF GEOMETRY DESCRIPTION IN IDEALISED CONDUITS AND A PATIENT SPECIFIC CEREBRAL ANEURYSM., **A.M. Gambaruto, A.B. Moura, A. Sequeira**	**MS6 - Subject-Specific Meshing:** QUALITY MESHING ALGORITHMS FOR ACCURATE AND EFFICIENT CARDIOVASCULAR SIMULATIONS, **E. Marchandise, E. Sauvage, J.-F. Remacle**	**MS5 - High Performance Computing:** SIMULATION OF THE BLOOD FLOW IN THE LEFT VENTRICLE USING A FINITE ELEMENT METHOD WITH MOVING GEOMETRIES BASED ON ULTRASOUND MEASUREMENTS, **J.H. Spühler, J. Hoffman, J. Jansson, U. Gustafsson, M.Broomé, M.G. Larson, P. Vesterlund**	**SS4 - Cardiovascular:** TISSUE LENGTH DEPENDENCE AND LEFT VENTRICULAR BLOOD FLOW IN THE HUMAN HEART, **D. Nordsletten, M McCormick, D. Kay, N. Smith**
11:20	11:40	**MS1 - Cerebral Arteries:** HIGH RESOLUTION HEMODYNAMICS OF SMALL INTRACRANIAL ANEURYSMS USING PHASE CONTRAST MRI, **S.R. Kecskemeti, K.M. Johnson, Y. Wu, P. Turski, O. Wieben**	**MS6 - Subject-Specific Meshing:** MESHING CHALLENGES FOR PATIENT-SPECIFIC CARDIOVASCULAR SYSTEMS, **Y. Zhang**	**MS5 - High Performance Computing:** RUNNING HAEMODYNAMIC SIMULATIONS ON GPUS, **R. Löhner, A. Corrigan, F. Camelli, F. Mut, J.R. Cebral**	**SS4 - Cardiovascular:** A MATHEMATICAL MODEL OF BIDIRECTIONAL GLENN HEMODYNAMICS WITH AN INCREMENT IN PULMONARY VASCULAR RESISTANCE, **C.Vallecilla, N. Sandoval, J. C. Briceño**
11:40	12:00	**MS1 - Cerebral Arteries:** COMPARING GEOMETRY AND HEMODYNAMICS OF MCA ANEURYSMS, **A.J. Geers, I. Larrabide, H.G. Morales, M.C. Villa-Uriol, A.F. Frangi**	**MS6 - Subject-Specific Meshing:** HEXAHEDRAL MESH GENERATION FOR IMAGE-BASED COMPUTATIONAL FLUID DYNAMIC INVESTIGATION OF VASCULAR DISTRICTS, **G. De Santis, M. De Beule, P. Segers, P.Verdonck, B. Verhegghe**	**MS5 - High Performance Computing:** FLUID-STRUCTURE INTERACTION FINITE ELEMENT ANALYSIS ON THE RELATIONSHIP BETWEEN LEFT VENTRICULAR PUMP FUNCTION AND FIBER STRUCTURE WITHIN THE WALL, **H. Watanabe, S. Sugiura, T. Hisada**	**SS4 - Cardiovascular:** PATIENT-SPECIFIC FINITE ELEMENT ANALYSIS OF CAROTID ARTERY STENTING: IMPACT OF CONSTITUTIVE VESSEL MODELING ON VESSEL WALL STRESS DISTRIBUTION, **F. Auricchio, M. Conti, A. Ferrara, S. Morganti, A. Reali**
12:00	12:20	**MS1 - Cerebral Arteries:** CHARACTERIZATION OF THE MORPHOMETRY AND HEMODYNAMICS OF CEREBRAL ARTERIAL TREES IN HEALTHY HUMANS: A PRELIMINARY STUDY, **F. Mut, S. Wright, G. Ascoli, J.R. Cebral**	**MS6 - Subject-Specific Meshing:** HIGH-ORDER MESHING AND FLOW SIMULATION OF THE RABBIT ARTERIAL SYSTEM, **A. Plata, J. Peiró, S.J. Sherwin, V. Peiffer**	**MS5 - High Performance Computing:** PARALLEL COMPUTATIONAL ELECTROPHYSIOLOGY IN NVIDIA GPUS, **F. Rubio, M. Hanzich, R. Arís, M. Vázquez, G. Houzeaux**	**SS4 - Cardiovascular:** THE MECHANICAL RESONSE OF THE HUMAN CORONARY ARTERY: SIMULATION BY HIGH ORDER FINITE ELEMENT ANALYSIS, **E. Priel, Z. Yosibash**
12:20	12:40	**MS1 - Cerebral Arteries:** CFD IN BRAIN ANEURYSMS: CLINICAL PERSPECTIVE, **C. M. Putman**	**MS6 - Subject-Specific Meshing:** SEMI-AUTOMATIC MESH GENERATION AND COSMETICS FOR SUBJECT-SPECIFIC BIOMEDICAL GEOMETRIES, **I. Sazonov, P. Nithiarasu**	**MS5 - High Performance Computing:** STRATEGIES FOR HIGH PERFORMANCE COMPUTATION OF HEMODYNAMICS IN CEREBRAL ANEURYSMS, **R. Löhner, F. Mut, F. Camelli, J.R. Cebral**	**SS4 - Cardiovascular:** REGIONAL DIFFERENCES IN MECHANICAL BEHAVIOR OF THE THORACIC AORTA DURING PRESSURE-INDUCED INFLATION, **J. Kim, S. Baek**

12:40	13:40	Lunch and Posters			
13:40	14:10	Keynote – Professor Anne Robertson, Chair: Professor Luca Formaggia *(Grand Ballroom)*			
		Grand Ballroom	*Junior Ballroom A*	*Junior Ballroom B*	*Meeting Room 1*
14:10	14:30	**SS5 - Surgical Simulation:** A COMPUTATIONAL FRAMEWORK FOR UNCERTAINTY QUANTIFICATION AND ROBUST OPTIMIZATION OF CARDIOVASCULAR BYPASS GRAFT SURGERIES, **S. Sankaran, A.L. Marsden**	**MS6 - Subject-Specific Meshing:** GENERATING SMOOTH SURFACE MESHES FROM LABELLED MEDICAL DATA SETS, **V. d'Otreppe, R. Boman, J.P. Ponthot**	**MS7 - Deformable Modelling in Image Analysis:** LOCAL PHASE BASED AUTOMATIC IVUS MEDIA-ADVENTITIA BORDER DETECTION, **E. Essa, X. Xie, I. Sazonov, P. Nithiarasu**	**SS4 - Cardiovascular:** COMPUTATIONAL STUDY OF BLOOD FLOW WITHIN A MULTI-BRANCHED MODEL OF THE RABBIT THORACIC AORTA, **A. M. Plata, P. E. Vincent, A. A. E. Hunt, S. J. Sherwin, P. D.Weinberg**
14:30	14:50	**SS5 - Surgical Simulation:** APPLICATION OF GENETIC ALGORITHM AND FINITE ELEMENT METHOD IN DESIGN OF THE SCAFFOLDS FOR TISSUE ENGINEERING, **M.K. Heljak, W. Swieszkowski K.J. Kurzydlowski**	**MS6 - Subject-Specific Meshing:** ROBUST MEDIAL CURVE COMPUTATION FOR BIOMEDICAL GEOMETRIES, **V. Dyedov, D. Einstein, X. Jiao**	**MS7 - Deformable Modelling in Image Analysis:** LEARNING PATIENT-SPECIFIC MOTION BASED ON DECOMPOSING A MULTILINEAR SHAPE MODEL, **Y. Hu and D. Barratt**	**SS4 - Cardiovascular:** SWIRLGRAFT VERSUS CONVENTIONAL STRAIGHT GRAFT AS VASCULAR ACCESS: A FULL CFD-ANALYSIS, **K. Van Canneyt, G. De Santis, S. Eloot, P. Segers, P. Verdonck**
14:50	15:10	**SS5 - Surgical Simulation:** MODELLING VENTRICULAR FUNCTION UNDER LVAD SUPPORT, **M. McCormick, D. Nordsletten, D. Kay, N. Smith**	**MS6 - Subject-Specific Meshing:** MESH GENERATION TECHNOLOGY FOR DOMAINS WITH SMALL STRUCTURAL ELEMENTS, **A.A. Danilov, Y.V. Vassilevski**		**SS4 - Cardiovascular:** NUMERICAL MODEL FOR THE CFD-SIMULATION OF THE FLOW FIELD IN THE ANASTOMOSIS REGION OF CORONARY BYPASSES, **M. De Witte, A. Swillens, L. Løvstakken, H. Nordgaard, D. Van Loo, B. Trachet, J. Vierendeels, P Segers**
15:10	15:40	Coffee/tea			
15:40	16:00	**SS6 - Analysis Models:** A SALIENCY-BASED VISUAL ATTENTION MODEL FOR DYNAMICAL SCENE ANALYSIS., **J.F. Ramirez-Villegas, D.F. Ramirez-Moreno**	**MS6 - Subject-Specific Meshing:** EVALUATION OF MESH MORPHING AND MAPPING TECHNIQUES IN PATIENT SPECIFIC MODELING OF THE HUMAN PELVIS, **Z. Salo, C. Whyne**	**MS7 - Deformable Modelling in Image Analysis:** VARIATIONAL LEVEL SET SEGMENTATION USING SHAPE PRIOR, **S.Y. Yeo, X. Xie, I. Sazonov, P. Nithiarasu**	**SS4 - Cardiovascular:** RESULTS OF THE FDA INTERLABORATORY COMPUTATIONAL, **S.F.C. Stewart, P. Hariharan, E.G. Paterson, G.W. Burgreen, V. Reddy , S.W. Day, M. Giarra, K.B. Manning, S. Deutsch, M.R. Myers, M.R. Berman, R.A. Malinauskas**
16:00	16:20	**SS6 - Analysis Models:** POINT-CLOUD METHOD FOR IMAGE-BASED BIOMECHANICAL ANALYSIS, **J. Qian, M. Chiang, J. Lu**	**MS6 - Subject-Specific Meshing:** VARIATIONAL GENERATION OF HYBRID PRISM-TETRAHEDRAL MESHES FOR BIOMEDICAL APPLICATIONS, **D.R. Einstein, V. Dyedov, A.P. Kuprat, N. Ray, X. Jiao**	**MS7 - Deformable Modelling in Image Analysis:** USING 4D PHASE-CONTRASTS MRI TO DETERMINATE BLOOD FLOW PATTERNS IN THE AORTIC DISEASES, **E. Soudah, J.S. Ronda, M. Rodriguez, H. Hervilla, F. Carreras, E. Oñate**	**SS4 - Cardiovascular:** VESSEL WALL MODELING FOR 1D HAEMODYNAMICS, **S.S. Simakov, Y.V. Vassilevski, V.Yu. Salamatova, Y.A. Ivanovy, T.K. Dobroserdova**
16:20	16:50	Keynote – Professor Guowei Wei, Chair Professor Ge Wang *(Grand Ballroom)*			
19:00	21:00	Conference dinner **(Student registration does not include conference dinner. Dinner cost - $50.)**			

CMBE11 Day 3, 1st of April 2011

09:00	10:00	Plenary lecture – Professor J.N. Reddy, Chair: Professor Perumal Nithiarasu *(Grand Ballroom)*		
10:00	10:30	Keynote – Professor Pablo J Blanco, Chair: Professor Karol Miller *(Grand Ballroom)*		
10:30	11:00	Coffee/tea		
		Grand Ballroom	*Junior Ballroom A*	*Junior Ballroom B*
11:00	11:20	**MS8 - Inverse Vascular Mathematics:** A VARIATIONAL APPROACH FOR ESTIMATING THE COMPLIANCE OF CARDIOVASCULAR TISSUES, **M. Perego, A. Veneziani, C. Vergara**	**MS9 - Image Processing and Analysis:** REGISTRATION OF PLANTAR PRESSURE IMAGES, **F.P.M. Oliveira, J.M.R.S. Tavares**	**MS10 - Cardiac Electro-Mechanics:** LARGE SCALE ELECTROMECHANICAL CARDIAC SIMULATIONS, **P. Lafortune, R. Arís, M. Vázquez, G. Houzeaux, A. Jérusalem**
11:20	11:40	**MS8 - Inverse Vascular Mathematics:** INVERSE STRESS ANALYSIS IN AAA CONSIDERING THROMBUS, **S. Hu, J. Lu**	**MS9 - Image Processing and Analysis:** FINITE ELEMENT COMPARISON OF DENTAL IMPLANTS WITH STANDARD AND PLATFORM SWITCHING PROSTHETIC COMPONENTS, **M.A. Neto, P. Nicolau, S. Rocha, R.P. Leal**	**MS10 - Cardiac Electro-Mechanics:** MODEL ADAPTIVE METHODS FOR THE BIDOMAIN EQUATIONS IN ELECTROCARDIOLOGY, **L.G. Giorda, L. Mirabella, M. Perego, A. Veneziani**
11:40	12:00	**MS8 - Inverse Vascular Mathematics:** NON-INVASIVE AND INVERSE PROPERTY ESTIMATION OF ARTERIAL WALLS, **A.S. Kapoor, P. Nithiarasu, R. van Loon**	**MS9 - Image Processing and Analysis:** CHALLENGES IN IMAGE-BASED GEOMETRIC MODELING AND MESH GENERATION, **Y. Zhang**	**MS10 - Cardiac Electro-Mechanics:** EFFICIENT PRECONDITIONERS FOR THE BIDOMAIN SYSTEM IN ELECTROCARDIOLOGY, **L. Gerardo-Giorda, L. Mirabella, M. Perego**
12:00	12:20	**MS8 - Inverse Vascular Mathematics:** INTEGRATION OF ULTRASOUND COLOR DOPPLER IMAGING, **K. Funamoto, T. Kato, T. Hayase**	**MS9 - Image Processing and Analysis:** AN INTEGRATED METHOD FOR INTENSITY INHOMOGENEITY CORRECTION AND LOCAL IMAGE ENHANCEMENT OF MRI BASED ON CURVELET TRANSFORM, **K. Tsai, J. Wu, D. Ye, J. Ma**	**MS10 - Cardiac Electro-Mechanics:** ON SOME NUMERICAL ASPECTS OF AN ACTIVE STRAIN FORMULATION IN CARDIAC MECHANICS, **A. Quarteroni, S. Rossi, R. Ruiz-Baier**
12:20	12:40	**MS8 - Inverse Vascular Mathematics:** REDUCED ORDER MODELLING FOR INVERSE PROBLEMS IN HAEMODYNAMICS, **A. Manzoni, A. Quarteroni, G. Rozza**	**MS9 - Image Processing and Analysis:** IMAGE REGISTRATION FOR TISSUE BIOMECHANICS IMAGING, **M.S. Richards, P.E Barbone, A.A. Oberai**	**SS7 - Blood:** HEMODYNAMICS IN THE LOWER-LIMB BYPASSES USING WAVE SEPARATION AND WAVE INTENSITY ANALYSIS, **M. Willemet, V. Lacroix, E. Marchandise, A. Khir**

12:40	13:40	Lunch		
13:40	14:10	Keynote – Professor Jan-Fredric Gerbeau, Chair: Professor Anne Robertson *(Grand Ballroom)*		
		Grand Ballroom	*Junior Ballroom A*	*Junior Ballroom B*
14:10	14:30	**MS8 - Inverse Vascular Mathematics:** INVERSE IDENTIFICATION OF THE IN VIVO ARTERIAL WALL THICKNESS AND ANISOTROPY, **S. Zeinali-Davarani, L.G. Raguin, D.A. Vorp, S. Baek**	**MS9 - Image Processing and Analysis:** GEOMETRIC ANALYSIS AND DECOMPOSITION OF 3-D CLOSED SURFACES FOR APPLICATIONS IN DIAGNOSTIC MEDICAL IMAGING, **J. Wu, J.C. Brigham**	**SS7 - Blood:** COMPUTATIONAL RHEOLOGY OF SICKLE CELL, **O.L. Castillo, A.L. Gonzalez**
14:30	14:50	**MS8 - Inverse Vascular Mathematics:** A DATA ASSIMILATION PROCEDURE FOR INCLUDING NOISY MEASUREMENTS OF BLOOD VELOCITY INTO HEMODYNAMICS SIMULATIONS, **M. D'Elia, M. Perego, A. Veneziani**	**MS9 - Image Processing and Analysis:** MINIATURIZED LASER SPECKLE CONTRAST IMAGING MICROSCOPE, **J. Senarathna, K. Murari, N. Li, R. Etienne-Cummings, N.V. Thakor**	**SS7 - Blood:** A FLUIDO-CHEMICAL MODEL OF THROMBUS FORMATION, **J. Biasetti, T.C. Gasser**
14:50	15:10	**MS8 - Inverse Vascular Mathematics:** DESIGN OF STATE ESTIMATORS IN FLUID-STRUCTURE INTERACTION FOR DATA ASSIMILATION IN LARGE ARTERIES, **C. Bertoglio, D. Chapelle, M. Fernández, J-F. Gerbeau, P. Moireau**	**MS9 - Image Processing and Analysis:** SEGMENTATION OF MAGNETIC RESONANCE IMAGES FROM FEMALE PELVIC CAVITY, **Z. Ma, R.N.M. Jorge, T. Mascarenhas, J.M.R.S. Tavares**	**SS7 - Blood:** EFFECT OF ROLL ANGLE ON THE BUBBLE TRANSPORT IN A SYMMETRIC BIFURCATING MICROCHANNEL, **J. Poornima, S. Vengadesan**
15:10	15:40	Coffee/tea		
15:40	16:00	**MS8 - Inverse Vascular Mathematics:** SOLVING PULMONARY HEMODYNAMIC INVERSE PROBLEMS BY TUNING MODELS WITH MULTIPLE LEVELS OF DETAIL, **R.L. Spilker, J.A. Feinstein, C.A. Taylor**	**MS9 - Image Processing and Analysis:** INTEGRATING COMPUTATIONAL BIOMECHANICS AND ULTRASOUND SIMULATIONS TO IMPROVE ULTRASONIC VISUALIZATION AND QUANTIFICATION OF ARTERIAL MECHANICS, **A. Swillens, L. Lovstakken, J. Degroote, J. Vierendeels, P. Segers**	**SS7 - Blood:** FONTAN SURGICAL DESIGN FOR IMPROVED HEPATIC FLOW DISTRIBUTION USING CFD AND DERIVATIVE-FREE OPTIMIZATION, **W. Yang, I.E. Vignon-Clementel, G. Troianowski, S.Shadden, V.M. Reddy, J.A. Feinstein, A.L. Marsden**
16:00	16:20	**MS8 - Inverse Vascular Mathematics:** BIOMECHANICAL IMAGING: INFERRING TISSUE MICROSTRUCTURE AND PATHOLOGY, **A.A. Oberai, P.E. Barbone, R. Leiderman, S. Goenezen, J-F. Dord**	**MS9 - Image Processing and Analysis:** IMAGE-BASED 3D SHAPE RECONSTRUCTION OF ABDOMINAL AORTIC ANEURYSM, **K. Shimada**	**SS7 - Blood:** MATHEMATICAL MODELING OF SWIRLING INTRACARDIAC FLOW USING EXACT SOLUTION OF UNSTEADY-STATE HYDRODYNAMIC EQUATIONS FOR THE CLASS OF SELF-ORGANIZING TORNADO-LIKE FLOWS OF VISCOUS MEDIUM, **L.A. Bokeriya, G.I. Kiknadze, A.V. Bogevolnov, A.Yu. Gorodkov**
16:20	16:50	Keynote – Professor G.R. Liu, Chair: Professor David Steinman *(Grand Ballroom)*		
16:50	17:05	Close		

CMBE11 POSTER PROGRAMME (March 31st 2011)

Session: 12.40 - 13.40, Location: Ballroom Pre-function

No.	Title	Author
1	MODELING HEAT AND MASS TRANSFER IN RADIANT WARMER	M.J. Rojczyk, I.A. Szczygieł
2	ESTIMATION FO PULSE WAVE VELOCITY DERIVED FROM 2D AND 4D FLOW-SENSITIVE MAGNETIC RESONANCE IMAGING	A.L. Wentland, A. Frydrychowicz, K.M. Johnson, C.J. Francois, T.M. Grist, and O. Wieben
3	DIGITAL SIGNAL CONTROLLER DM 330011 BASED REAL TIME SYSTEM FOR DETECTION OF ECG SIGNAL	D. Bansal, M. Khan, A.K. Salhan
4	CONTROLLABLE SEPARATION OF SSDNA MOLECULES BY A POLARIZED CNT MEMBRANE SUBJECTED TO A PULSED ELECTRIC FIELD	Y.H. Xie, A.K. Soh
5	MODELING AND CONTROL OF AN INDUCIBLE GENE EXPRESSION SYSTEM	N. Barbosa, A. Olarte, C.A. Clavijo, H. Diaz
6	A NEW FRACTAL MODEL OF CHROMOSOME AND DNA PROCESSES	K.Bouallegue
7	FINITE ELEMENT ANALYSIS ON THE FLUID FILTRATION IN A CAPILLARY-TISSUE SYSTEM	Y. He, R. Himeno
8	A CONSTITUTIVE MODEL FOR VASCULAR TISSUE THAT INTEGRATES FIBRIL, FIBER AND CONTINUUM LEVELS	T.C. Gasser, G. Martufi, M. Auer
9	MYOCARDIAL TISSUE DEFORMATION DUE TO PACEMAKER LEAD CONTACT - THE IMPACT OF MATERIAL ANISOTROPY.	C. Forsell, T.C. Gasser
10	NUMERICAL IMPLEMENTATION OF A CONTINUUM LEVEL THROMBOSIS MODEL: SIMULATION OF THROMBUS GROWTH AND FLUID-THROMBUS INTERACTION	S.B. Samra, E.G. Paterson

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Session: 12.40 - 13.40, Location: Ballroom Pre-function

No.	Title	Author
11	IMPORTANCE OF THORACIC AORTIC CURVATURE IN THE PATHOGENESIS OF THORACIC AORTIC DISSECTION	D.P. Nathan, T.J. Eperjesi, A. Pouch, A.S. Jassar, C. Xu, J.H. Gorman III, R.C. Gorman, B.M. Jackson
12	BLOOD FLOW DYNAMICS IN PATIENT SPECIFIC ARTERIAL NETWORK IN HEAD AND NECK	S. Rhode, M.C. Pauly, E. Martens, D.F. Campbell
13	SIMULATION AND ANALYSIS OF FLOW IN DIFFERENTS GEOMETRICAL ARRAYS OF A VASCULAR GRAFT	J.F. García, A. Gonzalez, C. Vallecilla, J.C. Briceño
14	ASYMMETRIC ARTERY STENOSIS - NUMERIC MODEL	M. Brand, M. Teodorescu, I. Avrahami, J. Rosen
15	FINITE ELEMENT ANALYSIS OF STENTLESS VALVE IMPLANT IN PATIENT-SPECIFIC AORTIC ROOT GEOMETRY	F. Auricchio, M. Conti, S. Morganti, P. Totaro, M. Viganò
16	FLUID-SOLID INTERACTION MODEL OF THE MITRAL VALVE	N.R. Roberts, E. Ingham, Z. Jin, S. Korossis
17	INTRACRANIAL ANEURYSMS: TOWARDS DISCRIMINATION OF HEMODYNAMICALLY STABLE AND UNSTABLE 3D VIRTUAL PATIENT SPECIFIC GEOMETRIES	R. Ouared, O. Brina, A. Narata, A. Marcos, P. Bijlenga, K. Schaller, K.Lovblad, V. Pereira
18	INFLUENCE OF SIPHON BENDS ON THE FLOW PATTERNS OF THE INTERNAL CAROTID ARTERY	M. Piccinelli, T. Passerini
19	ANEURYSM ENLARGEMENT USING A FIBER-BASED GROWTH MODEL	Fred Nugen, L. Dedé, T.J.R. Hughes
20	TOWARDS THE VALIDATION OF A VIRTUAL COILING TECHNIQUE USING A REAL VERSUS A SIMULATED BOLUS INJECTION	H.G. Morales, I. Larrabide, M. Villa-Uriol, A.J. Geers, A.F. Frangi

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