

Munich, Germany, July 29th – August 4th 2006



5th World Congress of Biomechanics

incorporating the
15th Congress of the European Society of Biomechanics
31st Congress of the Société de Biomécanique
4th ESEM International Symposium on Microdamage

Schedule

Date: 1707/06



Saturday July 29th 2006

9.00-18.00	ISB Council Meeting Munich Hotel Eden-Wolff Prinz Eugen Room	9.00-18.00
	Workshop 1 Munich University of Applied Sciences Entrance Lothstr. 34 Room D 212	
10.00-16.00	The Finite Elements Methods in Biomedical Engineering, Biomechanics and Related Field	11.00-16.00
	Workshop 2 Munich University of Applied Sciences Entrance Lothstr. 34 Room G 0.01	
11.00-16.00	Indo-German-Workshop "Clean Room Technologies and related fields"	11.00-16.00

Sunday July 30th 2006

8.00-14.00	ISB Council Meeting Munich Hotel Eden-Wolff Prinz Eugen Room	8.00-14.00		
10.00-12.30	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td align="center">ESB Council Meeting Munich University of Applied Sciences Room G 1.04</td> <td align="center">World Council Meeting Hotel Bayerischer Hof Palais Keller</td> </tr> </table>	ESB Council Meeting Munich University of Applied Sciences Room G 1.04	World Council Meeting Hotel Bayerischer Hof Palais Keller	10.00-12.30
ESB Council Meeting Munich University of Applied Sciences Room G 1.04	World Council Meeting Hotel Bayerischer Hof Palais Keller			
12.30-14.00	Lunch break	12.30-14.00		
15.00-18.30	<p>OPENING CEREMONY</p> <p>HOTEL BAYERISCHER HOF</p>	15.00 -18.30		
19.00-21.00	<p>GET TOGETHER</p> <p>HOTEL BAYERISCHER HOF</p>	19.00-21.00		

Monday, July 31th

	Conference rooms															
Rooms	D 2.12	E 0.103	G 0.01	G 0.43	G 1.27	G 2.36	R 0.002	R 0.003	R 0.005	R 0.006	R 0.007	R 0.055	R 0.056	R 0.058	Rooms	
Seats	160	200	400	80	80	50	60	62	45	45	40	108	117	135	Seats	
08.15-09.45	6.1.1.1	4.1	14.1.1		14.13.1			5.10.1		16.1		1.1.1	10.1.1	5.1	08.15-09.45	
Session 1	Sport Injuries Mechanics / Training	Biomechanical Analysis of Retrieval Implants	Cardiovascular Mechanics Aneurysms		Vascular Wall Mechanics- Biomechanical Analysis from Systemic to Organ Level			Ergonomics		Non- Pregnant Uterine Peristalsis		Bone Mechanics Advanced Detection of Bone Quality	Cell Mechanics: Biomechanics at Micro- and Nanoscale Levels	Real World Injuries	Session 1	
10.00-10.30	Plenary lecture "Challenges in Multi-Scale Modelling" P. Hunter, Univ Auckland, New Zealand Room G 0.01														10.00-10.30	
10.30-11.00	Coffee break														10.30-11.00	
11.00-12.30	6.1.1.2	4.2.1	14.1.2		14.13.2			5.10.2		16.2		1.1.2	10.1.2	5.2.1	11.00-12.30	
Session 2	Sport Injuries Mechanics / Training	Hip Endoprosthesis	Cardiovascular Mechanics AAAs and Stents- Grafts		Vascular Wall Mechanics - Biomechanical Analysis from Molecular to Tissue Level			Ergonomics		Placental Vasculature and Blood Flow		Advanced Detection of Bone Quality	Cell Mechanics: Biomechanics at Micro- and Nanoscale Levels	Whiplash and Neck Injury Biomechanics	Session 2	
12.30-14.00	Lunch break Poster Viewing														12.30-14.00	
14.00-15.30	6.1.2.1	4.2.2	14.1.3		14.13.3			5.10.3		16.3		1.1.3	10.1.3	5.2.2	14.00-15.30	
Session 3	Sport Injuries Functional Anatomy	Hip Endoprosthesis	Cardiovascular Mechanics Endovascular Aneurysm Repair		Vascular Wall Mechanics - Mathematical and Computational Modelling			Ergonomics		Myometrial Contractility and Calcium Transport		Advanced Detection of Bone Quality	Cell Mechanics: Biomechanics at Micro- and Nanoscale Levels	Whiplash and Neck Injury Biomechanics	Session 3	
15.30-16.00	Coffee break														15.30-16.00	
16.00-17.30	6.1.2.2	4.7	14.10.1		14.13.4			5.11		16.4		Track 10	10.2.1	5.2.3	16.00-17.30	
Session 4	Sport Injuries Functional Anatomy	Implantable Telemetry	Cardiovascular Mechanics Large Vessel Fluid Mechanics- Implants and Devices		Vascular Wall Mechanics - Active Behavior of Arterial Walls			Occupational Disorders, Repetitive Strain Injury		Mechanics of the Uterus and Cervix in Pregnancy		Poster session	Cell Mechanics	Whiplash and Neck Injury Biomechanics	Session 4	
16.00-17.30	ESB General Assembly		Poster session will take place in room R 2.001 / R 2.002 / R 2.005 and on the ground and the first floor of the large gallery Track 1, 3, 6, 10, 14, 15, 16, 17, 18, 20, T2													16.00-17.30

Monday, July 31th

	Conference rooms														
Rooms	R 1.001	R 1.002	R 1.003	R 1.004	R 1.005	R 1.006	R 1.007	R 1.008	R 1.046	R 1.049	R 1.087	R 2.007	R 2.088	R 2.091	Rooms
Seats	47	50	65	70	50	65	65	65	286	350	65	65	75	65	Seats
08.15-09.45		T1.15.1	6.9.1	2.8.1		T1.1.1		20.1.1	3.1.1.1	2.1.1	17.1	18.1.1		3.1.4.1	08.15-09.45
Session 1		Particle Tracking and Particle Methods for Biological Flows	Sport Analysis	Tendons and Ligaments - Mechanics of Normal Tissue		Computational Modelling and Mechanobiology of Cells		Biomechanics and Cell and Tissue Engineering of the Posterior Segment	Hip	Cartilage Biomechanics	Bionics	Flow in cerebral aneurysms		Upper Extremity	Session 1
10.00-10.30	Plenary lecture Challenges in Multi-Scale Modelling P. Hunter, Univ Auckland, New Zealand Room G 0.01														10.00-10.30
10.30-11.00	Coffee break														10.30-11.00
11.00-12.30		T1.15.2	6.9.2	2.8.2	9.1.1	T1.1.2	T1.16.1	20.1.2.1	3.1.1.2	2.1.2	17.2.1	18.2.1		3.1.4.2	11.00-12.30
Session 2		Time Domain Reduced Modelling in Biological Fluid Dynamics	Sport Analysis	Tendons and Ligaments - Substructural Mechanics	Bone Tissue Engineering and Cell Mechanobiology	Computational Modelling and Mechanobiology of Cells	Computational Methods for Modeling of Hearing	Biomechanics and Cell and Tissue Engineering of the Anterior Segment	Hip	Cartilage Biomechanics	Microorganisms	Imaging and management of CSF dynamics		Upper Extremity	Session 2
12.30-14.00	Lunch break														12.30-14.00
14.00-15.30		T1.15.3	6.10.1	2.8.3	9.1.2	T1.1.3	T1.16.2	20.1.2.2	3.1.3.1	2.1.3	17.2.2	18.3		3.1.4.3	14.00-15.30
Session 3		Cerebro-vascular Flow Modeling	Vibration Load in Sport - Fundamentals on Vibration	Tendons and Ligaments- Injury and Repair	Bone Tissue Engineering	Computational Modelling and Mechanobiology of Cells	Computational Methods for Modeling of Hearing	Biomechanics and Cell and Tissue Engineering of the Anterior Segment	Multiple Joints	Cartilage Biomechanics	Microorganisms	Imaging		Upper Extremity	Session 3
15.30-16.00	Coffee break														15.30-16.00
16.00-17.30		T1	6.10.2	2.8.4	9.1.3	T1.2.1	T1.16.3	20.2	3.1.3.2	2.2.1	17.3.1	18.4		3.1.4.4	16.00-17.30
Session 4		Poster Session	Vibration Load in Sport Application of Vibration in Exercise	Tendons and Ligaments- Reconstruction and Remodelling	Model/Bioreactor/ Animal Experiments	Computational Biomechanics of Arteries in Health and Disease	Computational Methods for Modeling of Hearing	Ears	Multiple Joints	Disc Mechanics	Plant Biomechanics	Robotics		Upper Extremity	Session 4
16.00-17.30	Poster session will take place in room R 2.001 / R 2.002 / R 2.005 and on the ground and the first floor of the large gallery Track 1, 3, 6, 10, 14, 15, 16, 17, 18, 20, T2														16.00-17.30

Tuesday, August 1st

Conference rooms															
Rooms	D 2.12	E 0.103	G 0.01	G 0.43	G 1.27	G 2.36	R 0.002	R 0.003	R 0.005	R 0.006	R 0.007	R 0.055	R 0.056	R 0.058	Rooms
Seats	160	200	400	80	80	50	60	62	45	45	40	108	117	135	Seats
08.15-09.45	6.1.3	4.2.3	14.3.1	10.2.2	14.4.1		2.7.1	T2.6	3.1.2.1	16.5	3.1.4.5	1.2.1	F.1	5.3.1	08.15-09.45
Session 1	Traumatology-Orthopaedics	Hip Endoprosthetics	Hemodynamics and Vascular Biology I	Cell Mechanics	Heart-Arterial Interaction		Musculoskeletal Modelling Meets Muscle Physiology	Abdominal and Cellular FSI	Knee	Mechanics of Embryonic Development	Upper Extremity	Bone Healing and Osteointegration	Société de Biomécanique Sport Biomechanics	Spine Kinematics and Injury Biomechanics	Session 1
10.00-10.30	Plenary lecture "Biomechanics Research and Sports Medicine's Future: Meeting the Challenges of Keeping your Knee and Shoulder Healthy" Savio L.-Y- Woo, Univ of Pittsburgh, USA, Room G 0.01														10.00-10.30
10.30-11.00	Lunch break							Coffee break							10.30-11.00
11.00-12.30	6.1.4.1	4.2.4	14.3.2	10.3.1	14.4.2		2.7.2	19.1	3.1.2.2	16.6	3.1.4.6	1.2.2	F.2	5.3.2	11.00-12.30
Session 2	Rehabilitation Orthopaedics	Hip Endoprosthetics	Hemodynamics and Vascular Biology II	Cell Migration and Molecular Motors	Heart-Arterial Interaction		Musculoskeletal Modelling Meets Muscle Physiology	Microvascular Transport	Knee	Penile Mechanics and Hemodynamics	Upper Extremity	Bone Healing and Osteointegration	Société de Biomécanique Biofluids and Transferts	Spine Kinematics and Injury Biomechanics	Session 2
12.30-14.00	13.00-13.30 Company presentation: Hongkong Productivity Council; Micro-fabrication of the non-moving-part valve micro-pump embossing technology; Ashley Pun, Derek Louiel, LM LI Room R 0.056														12.30-14.00
14.00-15.30	6.1.4.2	4.3.1	14.3.3	10.3.2	14.10.2	14.5.1	2.7.3	19.2	3.1.2.3	16.7	3.1.3.3	1.3	F.3	5.4.1	14.00-15.30
Session 3	Rehabilitation Orthopaedics	Knee Endoprosthetics	Hemodynamics of Veins	Cell Migration and Molecular Motors	Large Vessel Fluid Mechanics-Implants and Devices	Congenital Cardiovascular Disease Applications	Musculoskeletal Modelling Meets Muscle Physiology	Transport across Blood Vessel Walls I	Knee	Sperm Propulsion	Multiple Joints	Bone as an Organ	Société de Biomécanique Tissues and Structures Biomechanics	Head/Brain Injury: Macro-Biomechanics	Session 3
15.30-16.00	Coffee break														15.30-16.00
16.00-17.30	6.2	4.3.2	14.3.4	T3.1	14.10.3		2.7.4	19.3	3.1.2.4	16.8		Poster Session Track1	F.4	5.4.2	16.00-17.30
Session 4	Computer-Simulation in Sport	Knee Endoprosthetics	Computational Hemodynamics	Cell Mechanics	Large Vessel Fluid Mechanics-Implants and Devices		Musculoskeletal Modelling Meets Muscle Physiology	Transport across Blood Vessel Walls II	Knee	Pelvic Floor Mechanics		Poster Session Track1	Société de Biomécanique F.5 General Assembly	Head/Brain Injury	Session 4
16.00-17.30	Poster session will take place in room R 2.001 / R 2.002 / R 2.005 and on the ground and the first floor of the large gallery Track 1, 3, 6, 10, 14, 15, 16, 17, 18, 20, T2														16.00-17.30
17.30-18.00	Company presentation Simpleware Ltd. Room R 0.056														17.30-18.00
18.00	ESB Reception Augustiner Biergarten , Arnulfstrasse														18.00

Tuesday, August 1st

Conference rooms															
Rooms	R 1.001	R 1.002	R 1.003	R 1.004	R 1.005	R 1.006	R 1.007	R 1.008	R 1.046	R 1.049	R 1.087	R 2.007	R 2.088	R 2.091	Rooms
Seats	47	50	65	70	50	65	65	65	286	350	65	65	75	65	Seats
08.15-09.45		T1.11.1	6.11	2.8.5	5.12.1	15.1	T1.17	20.3.1	ESB	2.2.2	17.3.2	18.5	13.1		08.15-09.45
Session 1		Computational Biomechanics of the Spine	Musculoskeletal Systems	Tendons and Ligaments-Functional Tissue Engineering	Rehabilitation Mechanics-Joint ISB Session	Hemodynamics and Angiogenesis/Angioadaptation	Physiome Biomechanics and Mechanobiology	Urinary Tract	Student Award	Disc Mechanics	Plant Biomechanics	Neuroprosthetics	Transport in the Respiratory Airways		Session 1
10.00-10.30	Plenary lecture "Biomechanics Research and Sports Medicine's Future: Meeting the Challenges of Keeping your Knee and Shoulder Healthy" Savio L.-Y- Woo, Univ of Pittsburgh, USA, Room G 0.01														10.00-10.30
10.30-11.00	Coffee break														10.30-11.00
11.00-12.30		T1.11.2	6.12	2.8.6	5.12.2	15.2		20.3.2	ESB	2.3.1	17.4.1	18.6	13.2.1	T2.1.1	11.00-12.30
Session 2		Computational Biomechanics of the Spine	Wavelet Analysis of Electromyographic Signals	Tendons and Ligaments-Computational Modelling	Rehabilitation Mechanics <i>Joint ISB</i> Session	Molecular Mechanics of Cell Membranes and Their Microvascular Consequences:		Urinary Tract	Clinical Biomechanics Award	Motor Control of Human Movement	Swimming and Flying	Intervertebral disc replacement	Airway Liquid Dynamics	Cardiovascular Mechanics - Heart valves and protheses	Session 2
12.30-14.00	Lunch break 13.00-13.30 Company presentation: Hongkong Productivity Council; Micro-fabrication of the non-moving-part valve micro-pump embossing technology; Ashley Pun, Derek Louiel, LM LI Room R 0.056														12.30-14.00
14.00-15.30	11.2.1	T1.13	ESEM W3	14.13.5	Panel Discussion Mary Rogers Arthur Mak	15.4		20.4	3.1.5.1	2.3.2	17.4.2	18.7	T2.2	T1.2.2	14.00-15.30
Session 3	Cardiac Assist Devices	Computational Modelling of the Gastrointestinal Tract	Microdamage and osteoporosis	Mechanobiology of aneurysms		Microvascular Glycocalyx and Molecular Fluid Structure Interaction		Soft Tissues	Upper Extremity Injury	Motor Control of Human Movement	Swimming and Flying	Car racing and craniovertebral trauma	Respiratory Mechanics FSI- Aerodynamics and vibrations	Computational Biomechanics of Arteries in Health and Disease	Session 3
15.30-16.00	Coffee break														15.30-16.00
16.00-17.30		T1.14.1		14.13.6	5.13	15.5		20.7	3.1.5.2	2.3.3	17.4.3	18.2.2	13.3	T2.1.2	16.00-17.30
Session 4		Image-based Anatomical Modelling for CAD/FEA Applications		Towards Clinical Applications	Spine Kinematics	Lymphatic Biomechanics and Tissue Stresses		Posters	Upper Extremity Injury	Motor Control of Human Movement	Swimming and Flying	Imaging and management of CSF dynamics	Mechanics of the Lung Parenchyma	Cardiovascular Mechanics-FSI Problems in arterial disease	Session 4
16.00-17.30	Poster session will take place in room R 2.001 / R 2.002 / R 2.005 and on the ground and the first floor of the large gallery Track 1, 3, 6, 10, 14, 15, 16, 17, 18, 20, T2														16.00-17.30
17.30-18.00	Company presentation Simpleware Ltd. Room R 0.056														17.30-18.00
18.00	ESB Reception Augustiner Biergarten , Arnulfstrasse														18.00

Wednesday, August 2nd

	Conference rooms														
Rooms	D 2.12	E 0.103	G 0.01	G 0.43	G 1.27	G 2.36	R 0.002	R 0.003	R 0.005	R 0.006	R 0.007	R 0.055	R 0.056	R 0.058	Rooms
Seats	160	200	400	80	80	50	60	62	45	45	40	108	117	135	Seats
08.15-09.45	6.3.1	4.3.3	14.11.1	T1.7.1	14.5.2	14.7.1	2.7.5	19.5	T2.1.3	3.4.1		1.4.1	10.4.1	5.4.3	08.15-09.45
Session 1	Footwear-Movement Control	Knee Endoprosthesis	Mechanobiology of Vascular Walls and Cells	Computational Biomechanics and Mechanobiology of Musculoskeletal Soft Tissues	Atherosclerosis and Aneurysms 1	Coronary Circulation	Musculoskeletal Modelling Meets Muscle Physiology	Biothermo-mechanics	Cardiovascular Mechanics-FSI Algorithm development in the cardiovascular system	Spine Mechanics		Bone Remodelling	Cytoskeletal, Nuclear, and Membrane Rheology	Head/Brain Injury	Session 1
10.00-10.30	Plenary lectures "Regenerative Medicine: From Engineer to Clinical Application" J.F.Stolz Univ. Director Bioengin. Hospital Vandoeuvre les Nancy, France Room G 0.01 ESB SM Perren Award Session and ESBiomat Session Room R 1.049														10.00-10.30
10.30-11.00	Coffee break														10.30-11.00
11.00-12.30	6.3.2	4.4.1	14.11.2	T1.7.2	14.5.3.	14.7.2	2.7.6	19.4.1	T5	3.4.2		1.4.2	10.4.2	5.5.1	11.00-12.30
Session 2	Footwear-Movement Control	Spinal Implants	Mechanobiology of Vascular Walls and Cells	Computational Biomechanics and Mechanobiology of Musculoskeletal Soft Tissues	Atherosclerosis and Aneurysms 2	Coronary Circulation	Musculoskeletal Modelling Meets Muscle Physiology	Transport in Native and Engineered Cells and Tissues	Electro-Impedance	Spine Mechanics		Bone Remodelling	Cytoskeletal, Nuclear, and Membrane Rheology	Thorax Injury Biomechanics	Session 2
12.30-14.00	12.45 Lunch Break, Mitglieder Versammlung der DGBF Poster session will take place in room R 2.001 / R 2.002 / R 2.005 and on the ground and the first floor of the large gallery Track 2, 4, 5, 7, 8, 9, 11, 12, 13, 19, T1, T4, T5														12.30-14.00
14.00-15.30	6.4.1.	4.4.2		T1.8	14.5.4.	14.3.5	2.7.7	19.4.2		3.4.3			T4.4	5.5.2	14.00-15.30
Session 3	Jumping	Spinal Implants		Material Stability Aspects for Biological Tissues	Cardiac or Coronary applications	Hemodynamics (General)	Musculoskeletal Modelling Meets Muscle Physiology	Transport in Native and Engineered Cells and Tissues		Spine Mechanics			Imaging in Cellular and Molecular Biomechanics	Thorax Injury Biomechanics	Session 3
15.30-16.00	Coffee break														15.30-16.00
20.00	Excursion to Lake Starnberg, the boat leaves the dock at 20.00.														
14.00	ESB Council Meeting Room G 1.04														

Wednesday, August 2nd

Conference rooms															
Rooms	R 1.001	R 1.002	R 1.003	R 1.004	R 1.005	R 1.006	R 1.007	R 1.008	R 1.046	R 1.049	R 1.087	R 2.007	R 2.088	R 2.091	Rooms
Seats	47	50	65	70	50	65	65	65	286	350	65	65	75	65	Seats
08.15-09.45		11.1.1		9.1.4	15.3.1	3.5.1	14.6.1	20.6	3.2.1	2.3.4	17.4.4	T1.14.2	13.4	18.1.2	08.15-09.45
Session 1		Artificial Kidney and Dialysis (including Blood Purification)		Cell Biology and Biochemistry (Microscale)	Flow in Microchannels and Microvessel Networks: Flexible Particles and Cell-Vascular Wall Interactions	Walking Dynamics	Computational Modelling	Biomechanics of Cancer	Falls	Motor Control of Human Movement	Swimming and Flying	Image-based Anatomical Modelling for CAD/FEA Applications	Pulmonary Cell Mechanics	Flow in Cerebral Aneurysms	Session 1
10.00-10.30	Plenary lectures "Regenerative Medicine: From Engineer to Clinical Application" J.F.Stolz Univ. Director Bioengin.Hospital Vandoeuvre les Nancy, France Room G 0.01 ESB SM Perren Award Session and ESBiomat Session Room R 1.049														10.00-10.30
10.30-11.00	Coffee break														10.30-11.00
11.00-12.30	12.1.1	11.1.2	T4.7.1	9.1.5	15.3.2	3.5.2	14.6.2	20.5.1	3.2.2	2.3.5	17.5.1	T1.14.3	13.6.1	18.1.3	11.00-12.30
Session 2	Biomaterials for Therapeutic Delivery	Artificial Kidney and Dialysis (including Blood Purification)	Quantitative Functional Imaging	Substrate/ Biomaterial (Mesoscale)	Flow in Microchannels and Microvessel Networks: Flexible Particles and Cell-Vascular Wall Interactions	Walking Dynamics	Computational Modelling	Biomechanics of Skin	Falls	Motor Control of Human Movement	Terrestrial Locomotion	Image-based Anatomical Modelling for CAD/FEA Applications	Transport in the Upper Airways	Flow in Cerebral Aneurysms	Session 2
12.30-14.00	Lunch Break Poster session will take place in room R 2.001 / R 2.002 / R 2.005 and on the ground and the first floor of the large gallery Track 2, 4, 5, 7, 8, 9, 11, 12, 13, 19, T1, T4, T5														12.30-14.00
14.00-15.30	12.1.2	11.1.3.	T4.7.2		15.3.3	3.5.3	14.6.3	20.5.2	3.2.3	2.4	17.5.2	T1.14.4	13.5	18.1.4	14.00-15.30
Session 3	Biomaterials for Therapeutic Delivery	Artificial Kidney and Dialysis (including Blood Purification)	Quantitative Functional Imaging		Flow in Microchannels and Microvessel Networks: Flexible Particles and Cell-Vascular Wall Interactions	Walking Dynamics	Computational Modelling	Biomechanics of Skin	Falls	Muscle Energetics	Terrestrial Locomotion	Image-based Anatomical Modelling for CAD/FEA Applications	Assessment of Pulmonary Function	Flow in Cerebral Aneurysms	Session 3
15.30-16.00	Coffee break														15.30-16.00
20.00	Excursion to Lake Starnberg, the boat leaves the dock at 20.00.														
14.00	ESB Council Meeting Room G 1.04														

	Conference rooms														
Rooms	D 2.12	E 0.103	G 0.01	G 0.43	G 1.27	G 2.36	R 0.002	R 0.003	R 0.005	R 0.006	R 0.007	R 0.055	R 0.056	R 0.058	Rooms
Seats	160	200	400	80	80	50	60	62	45	45	40	108	117	135	Seats
08.15-09.45	6.4.2	4.8.1	14.11.3	T1.3	14.2.1		2.7.8	19.6	3.5.4	14.6.4		1.5.1	10.5.1	5.6.1	08.15-09.45
Session 1	Nordic Walking	Biotribology of Implants (Hip, Knee, Spine, etc.)	Mechanobiology of Vascular Walls and Cells	Mechanobiological Effects of Stent Artery Interaction	Cardiac Mechanics and Biology		Musculoskeletal Modelling Meets Muscle Physiology	Biothermodynamics and Thermal Property Measurement	Walking Dynamics	Computational Modelling		Bone Tissue	Mechano-transduction	Abdominal Injury Biomechanics	Session 1
10.00-10.30	Plenary lecture "The Role of Molecular Mechanics in Intracellular Signaling-Mechanisms and Modells" Roger Kamm, MIT, Boston, U.S.A, Room G 0.01														10.00-10.30
10.30-11.00	Coffee break														10.30-11.00
11.00-12.30	6.4.3	4.8.2	14.12.1	T1.4	14.2.2	14.8.1	2.7.9	19.7	3.5.5	3.4.4		1.5.2	10.5.2	5.6.2	11.00-12.30
Session 2	Skiing	Biotribology of Implants (Hip, Knee, Spine, etc.)	Tissue Adaptation and Remodelling	Computational Modeling and Mechanobiology of Vascular Anastomosis	Cardiac Mechanics and Biology	MRI	Musculoskeletal Modelling Meets Muscle Physiology	Multiscale Imaging and Visualization in Biotransport	Walking Dynamics	Spine Mechanics		Bone Tissue	Mechano-transduction	Abdominal Injury Biomechanics	Session 2
12.30-14.00	Lunch Break, Poster Viewing														12.30-14.00
14.00-15.30	6.5	4.8.3	14.12.2	T1.5	14.9.1	14.8.2	2.7.10	19.8.1	3.5.6	3.4.5		1.5.3	10.6.1	5.7.1	14.00-15.30
Session 3	Technology and Equipment	Biotribology of Implants (Hip, Knee, Spine, etc.)	Tissue Adaptation and Remodelling	Computational Biomechanics and Mechanobiology of the Heart	Heart Valves and Protheses	Ultrasound and Laser Techniques	Musculoskeletal Modelling Meets Muscle Physiology	Bioheat Transfer	Walking Dynamics	Spine Mechanics		Bone Tissue	Microstructural Modeling of Cells	Extremity and Pedestrian Injury Biomechanics	Session 3
15.30-16.00	Coffee break														15.30-16.00
16.00-17.30		4.8.4	14.12.3		14.9.2	14.8.3.2	2.10	19.8.2	3.6.1	10.6.2		1.5.4	10.7.1	5.7.2	16.00-17.30
Session 4		Biotribology of Implants (Hip, Knee, Spine, etc.) Poster	Tissue Adaptation and Remodelling 14.16 Poster Session		Heart Valves and Protheses	Laser Techniques	Poster Session	Bioheat Transfer	Gait Variability	Microstructural Modeling of Cells		Bone Tissue	Molecular Biomechanics: Biomechanics at Micro- And Nanoscale Levels	Extremity and Pedestrian Injury Biomechanics	Session 4
16.00-17.30	Poster session will take place in room R 2.001 / R 2.002 / R 2.005 and on the ground and the first floor of the large gallery Track 2, 4, 5, 7, 8, 9, 11, 12, 13, 19, T1, T4, T5														16.00-17.30
19.00	World Congress Banquet Löwenbräukeller am Stiglmairplatz														19.00

Conference rooms															
Rooms	R 1.001	R 1.002	R 1.003	R 1.004	R 1.005	R 1.006	R 1.007	R 1.008	R 1.046	R 1.049	R 1.087	R 2.007	R 2.088	R 2.091	Rooms
Seats	47	50	65	70	50	65	65	65	286	350	65	65	75	65	Seats
08.15-09.45	12.2	11.2.2	8.1	9.2	15.6	7.1	T1.9.1		3.2.4	2.5.1	17.5.3	T1.14.5	13.7		08.15-09.45
Session 1	Smart Biomaterials	Cardiac Assist Devices and Modelling	Surgical Planning, Modeling and Simulation	Cartilage–Meniscus Tissue Engineering	Microvascular Mechano-transduction	Dental Implant Mechanics- Bone Implant Interaction Phenomena	Computational Bone Mechanobiology: Remodelling, Healing, Growth and Osteointegration		Falls	Muscle Mechanics	Terrestrial Locomotion	Image-based anatomical modelling for CAD/FEA applications	Invited Respiratory Mechanics Poster Session		Session 1
10.00-10.30	Plenary lecture "The Role of Molecular Mechanics in Intracellular Signaling-Mechanisms and Modells" Roger Kamm, MIT, Boston, U.S.A, Room G 0.01														10.00-10.30
10.30-11.00	Coffee break														10.30-11.00
11.00-12.30	12.3.1	11.3.1	8.2	9.3		7.2	T1.9.2	T4.5	3.2.5	2.5.2			13.6.2		11.00-12.30
Session 2	Biomaterial in Biomechanical Applications- Joint ESB Session	Artificial Liver	Smart Surgical Devices	Ligament and Tendon Tissue Engineering		Periodontal Ligament Mechanics - Mechanics in Orthodontics	Computational Bone Mechanobiology: Remodelling, Healing, Growth and Osteointegration	Cardiac Elastography	Falls	Muscle Mechanics			Transport in the Upper Airways		Session 2
12.30-14.00	Lunch break, Poster Viewing														12.30-14.00
14.00-15.30	12.3.2	11.3.2	8.3	9.4		7.3	T1.9.3		3.2.6	2.5.3		T4.2			14.00-15.30
Session 3	Biomaterial in Biomechanical Applications- Joint ESB Session	Artificial Liver	Advances in Surgical Navigation	Engineered Vascularized Organs		Experimental Testing in Dental Biomechanics - Dental Device Manufacturing and Biomechanical Reliability	Computational Bone Mechanobiology: Remodelling, Healing, Growth and Osteointegration		Falls	Muscle Mechanics		New Imaging Advancements in Musculoskeletal Systems and Performance			Session 3
15.30-16.00	Coffee break														15.30-16.00
16.00-17.30		11.4.1	8.4	9.5		7.6	T1.9.4	T3.5	3.3.1	2.5.4		T4.3			16.00-17.30
Session 4	Poster	Artificial Lungs and Oxygenators	Robotics in Surgery and Rehabilitation	Mechanobiology at Micro- and Nano-Scale Levels		Posters	Computational Bone Mechanobiology: Remodelling, Healing, Growth and Osteointegration	Computational Biomechanics	Neuromuscular Control-Joint ISEK Session	Muscle Mechanics 2.10 Poster Session		Imaging in Tissue Engineering			Session 4
16.00-17.30	Poster session will take place in room R 2.001 / R 2.002 / R 2.005 and on the ground and the first floor of the large gallery Track 2, 4, 5, 7, 8, 9, 11, 12, 13, 19, T1, T4, T5														16.00-17.30
19.00	World Congress Banquet Löwenbräukeller am Stiglmaierplatz														19.00

