

	<b>September 6, 2017</b>		<b>September 7, 2017</b>		<b>September 8, 2017</b>
<b>8h-8h45</b>	Registration (PG1 Hall)				
<b>8h45</b>	Opening Ceremony Philippe COURTIER (President, UTC, Compiègne, France)				
<b>9h-9h40 L202</b>	Plenary Lecture I : <b>Prof. Ralph Müller</b> (ETH Zurich, Switzerland) Chair: Oliver Röhrle (University of Stuttgart, Germany)		Plenary Lecture IV : <b>Prof. Edward H. Shortliffe</b> (Arizona State University, USA) Chair: Damien Lacroix (University of Sheffield, UK)		Plenary Lecture VII : <b>Prof. Marie Oshima</b> The University of Tokyo, Japan) Chair: Dominique Bartès-Biesel (UTC, Compiègne, FR)
<b>9h45- 10h45</b>	Multiscale biomechanics and mechanobiology of bone and related tissues (I) – L103	Cardiovascular biomechanics – L200	Multi-physics and multi-scale modelling of muscular systems (II) – L103	Real time surgery and dynamic imaging – L200	Modeling of biofluids from vascular flows to cell dynamics (I) – L202
<b>10h45- 11h15</b>	Coffee break – PG1		Coffee break – PG1		Coffee break – PG1
<b>11h20- 11h55 L202</b>	Plenary Lecture III : <b>Prof. Oliver Röhrle</b> (University of Stuttgart, Germany) Chair: Hans Van Oosterwyck (KU Leuven, BE)		Plenary Lecture V : <b>Prof. Damien Lacroix</b> (University of Sheffield, UK) Chair: Ralph Müller (ETH Zurich, Switzerland)		Modeling of biofluids from vascular flows to cell dynamics (II) – L202
<b>12h00- 13h00</b>	Biomedical connected objects: real time computing – L103	Multi-physics and multi-scale modelling of muscular systems (I) – L200	Multiscale biomechanics and mechanobiology of bone and related tissues (II) – L103	Spine modeling – L200	Modeling of biofluids from vascular flows to cell dynamics (III) – L202
<b>13h00- 14h30</b>	Lunch – PG2		Lunch – PG2		Closing Ceremony (L202) & Lunch– PG2
<b>14h30- 15h10 L202</b>	Plenary Lecture II : <b>Prof. Hans Van Oosterwyck</b> (Katholieke Universiteit Leuven, Belgium) Chair: Nenad Filipovic (University of Kragujevac, Serbia)		Plenary Lecture VI : <b>Prof. Christian Hellmich</b> (Vienna University of Technology, Austria) Chair: Pascal Vena (Politecnico di Milano, IT)		
<b>15h15- 16h15</b>	Cell & Gene Modelling – L103	Fluid-structure-interaction in soft tissue – L200	Soft tissue modeling (II) – L103	Tools Demonstrations – L200	
<b>16h15- 16h45</b>	Coffee break – PG1		Coffee break – PG1		
<b>16h45- 17h45</b>	Tissue modeling to get insights in pharmacology, and vice-versa – L103	Soft tissue modeling (I) – L200	Computational biomechanics of dental implants and face modeling – L103	Bioinspired system characterization and modelling – L200	
	<b>18h00</b> Welcome Reception – PG2		<b>19h30</b> Banquet (Château de Compiègne)		

### ICCB 2017 – Registration – September 5 2017

<p>September 5<sup>th</sup> 16h-18h PG1 Hall</p>	<p>REGISTRATION</p>
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### ICCB 2017 – Daily Program – September 6 2017

<p>September 6<sup>th</sup> 8h-8h45 PG1 Hall</p>	<p>REGISTRATION</p>
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<p>September 6<sup>th</sup> 8h45-9h L202</p>	<p>OPENING CEREMONY Philippe COURTIER (President, UTC, Compiègne, France)</p>
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<p>September 6<sup>th</sup> 9h-9h40 Room: L202</p>	<p>PLENARY LECTURE I: Prof. Ralph Müller (ETH Zurich, Switzerland) <i>Advanced imaging and multi-scale modeling in skeletal systems mechanobiology and personalized medicine</i> <b>Chair:</b> Oliver Röhrle (University of Stuttgart, Germany)</p>
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September 6 <sup>th</sup> 9h45-10h45 Room: L103	MINI-SYMPIUM: MULTISCALE BIOMECHANICS AND MECHANOBIOLOGY OF BONE AND RELATED TISSUES (I)
9h45-10h	Feihu Zhao, Johanna Melke, Keita Ito, Bert van Rietbergen and Sandra Hofmann. <i>A multiscale computational fluid dynamics approach to quantify mechanical stimulation within bone tissue engineering scaffolds</i>
10h-10h15	Yohann Couqueberg, Valérie Berry-Kromer and Céline Bouby. <i>Finite element analysis of the remodeling of a metatarsal after head arthroplasty</i>
10h15-10h30	Elisa Budyn, Samantha Sanders, Morad Bensidhoum, Bertrand Cinquin, Patrick Tauc and Herve Petite. <i>Stem Cell Derived Osteoblasts and Osteocytes in human bone-on-chip</i>

September 6 <sup>th</sup> 9h45-10h45 Room: L200	SESSION: CARDIOVASCULAR BIOMECHANICS
9h45-10h	Mireia Calvo, Virginie Le Rolle, Daniel Romero, Nathalie Béhar, Pedro Gomis, Philippe Mabo and Alfredo Hernández. <i>Recursive model identification for the evaluation of the autonomic response to exercise in Brugada syndrome</i>
10h-10h15	Nenad Filipovic, Arso Vukicevic, Velibor Isailovic, Dalibor Nikolic, Zarko Milosevic, Igor Saveljic, Nikola Jagic and Oberdan Parodi. <i>Simulation of fractional flow reserve and plaque development in the coronary arteries</i>
10h15-10h30	Ricardo D. Coppel-Vizcarra, Armida Gomez, Gérard Finet, Jacques Ohayon and Manuel Lagache. <i>Numerical model and experimental test bench for hemodynamic study of coronary artery: bifurcation, stent</i>
10h30-10h45	Armida L. Gomez, Antoine Tacheau, Ricardo D. Coppel, Manuel Lagache, Jean-Louis Martiel, Simon Le Floc'h, Gérard Finet, Roderic I. Pettigrew, Guy Cloutier and Jacques Ohayon. <i>Intravascular ultrasound elasticity-palpography technique for mechanical characterization of coronary plaque anisotropy</i>

<b>September 6<sup>th</sup></b> <b>10h45-11h15</b> <b>PG1 Hall</b>	<b>COFFEE BREAK</b>
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<b>September 6<sup>th</sup></b> <b>11h20-11h55</b> <b>Room: L202</b>	<b>PLENARY LECTURE III: Prof. Oliver Röhrle (University of Stuttgart, Germany)</b> <i>The virtual skeletal muscle – from the cell to the system</i>
	<b>Chair:</b> Hans Van Oosterwyck (KU Leuven, Belgium)

<b>September 6<sup>th</sup></b> <b>12h-13h</b> <b>Room: L103</b>	<b>MINI-SYMPOSIUM: BIOMEDICAL CONNECTED OBJECTS: REAL TIME COMPUTING</b>
	<b>Chairs:</b> Dan Istrate (Université de Technologie de Compiègne, FR), Gian Marco Revel (Università Politecnica delle Marche, IT)
12h-12h15	Gian Marco Revel, Sara Casaccia, Filippo Pietroni, Michela Pirozzi and Lorenzo Scalise. <i>Biomonitor: a real-time e-health app for the analysis of relevant physiological parameters using a wearable device</i>
12h15-12h30	Halim Tannous, Dan Istrate, Aziz Benlarbi-Delai, Julien Sarrazin, Marie-Christine Ho Ba Tho and Tien-Tuan Dao. <i>Rehabilitation at Home with real time feedback</i>
12h30-12h45	Teddy Happillon, Charles Muszynski, Dan Istrate and Catherine Marque. <i>Automatic And Real-Time Detection Of Contractions Applying The Non-Linear Correlation Coefficient H2 On Electrohysterograms</i>
12h45-13h	Daniel Sanchez-Valdes, Alberto Alvarez-Alvarez, Bernardo Fernández Gutiérrez, Victor Álvarez López, Jimena Pascual Fernández and Sonia García Fernández. <i>Data analytics oriented to personalized medicine. Use cases</i>

<b>MINI-SYMPOSIUM: MULTI-PHYSICS AND MULTI-SCALE MODELLING OF MUSCULAR SYSTEMS (I)</b>	
<b>September 6<sup>th</sup> 12h-13h Room: L200</b>	<b>Chairs:</b> Catherine Marque (Université de technologie de Compiègne, FR) & Sofiane Boudaoud (Université de technologie de Compiègne, FR)
12h-12h15	Harnoor Saini, Leonardo Gizzi, Filiz Ateş and Oliver Röhrle. <i>Subject-specific 3D Musculoskeletal Simulations of the Human Tibialis Anterior</i>
12h15-12h30	Mariam Al Harrach, Sofiane Boudaoud, Vincent Carriou and Frédéric Marin. <i>Estimation of the individual muscle force by modeling of the sEMG/force relationship</i>
12h30-12h45	Catherine Marque, Maxime Yochum and Jérémy Laforêt. <i>Modeling the effect of mechanotransduction on the Intra Uterine Pressure</i>
12h45-13h	Christoph Augustin, Gernot Plank and Shawn Shadden. <i>Multiphysics simulations of the electro-mechano-fluidic function of patient-specific left ventricular models</i>

<b>September 6<sup>th</sup> 13h-14h30 PG2 Hall</b>	<b>LUNCH</b>
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<b>PLENARY LECTURE II: Prof. Hans Van Oosterwyck (KU Leuven, Belgium)</b> <i>Computational modelling and quantitative imaging for probing the cell's microenvironment</i>	
<b>September 6<sup>th</sup> 14h30-15h10 Room: L202</b>	<b>Chair:</b> Nenad Filipovic (University of Kragujevac, Serbia)

<b>SESSION: CELL &amp; GENE MODELING</b>	
<b>September 6<sup>th</sup> 15h15-16h15 Room: L103</b>	<b>Chair:</b> Hans Van Oosterwyck (KU Leuven, Belgium)
15h15-15h30	Francisco Merino-Casallo, M. J. Gómez-Benito and J. M. García-Aznar. <i>Stochastic modeling of mesenchymal 3D cell migration guided by chemotaxis</i>
15h30-15h45	Tien-Tuan Dao, Marie-Christine Ho Ba Tho. <i>Multi-agent simulation for bone remodeling process: a preliminary study</i>
15h45-16h	Tommy Heck, Bart Smeets, Simon Vanmaercke, Diego A. Vargas, Herman Ramon, Paul Van Liedekerke and Hans Van Oosterwyck. <i>Computational modeling of cell migration through a degradable viscoelastic extracellular matrix</i>
16h-16h15	Liliana Ironi and Ettore Lanzarone. <i>Model-based analysis and design of gene regulatory networks: A computational framework</i>

<b>SESSION: FLUID-STRUCTURE-INTERACTION IN SOFT TISSUE</b>	
<b>September 6<sup>th</sup> 15h15-16h15 Room: L200</b>	<b>Chair:</b> Daniel George (Université de Strasbourg, FR)
15h15-15h30	Yannick Hoarau, Michael Kugler, Luc Soler, Yves Remond and Daniel George. <i>Blood flow numerical simulation in a realistic liver model : effect of blood pressure on the liver rigidity</i>
15h30-15h45	Alex Kuchumov, Vladimir Samartsev and Vasiliy Vedeneev. <i>Patient-specific numerical FSI model for bile flow simulation based on inter-disciplinary studies</i>
15h45-16h	Anna Maria Tango, Gaetano Burriesci and Andrea Ducci. <i>Fluid-structure-interaction model of Transcatheter Aortic Valve Implantation configuration: comparison with an in-vitro study</i>
16h-16h15	Paola Causin and Gaetano Formato. <i>Mathematical models of solute transport in microcirculation: exchanges between arterioles and capillary-perfused tissue</i>

<b>September 6<sup>th</sup></b> <b>16h15-16h45</b> <b>PG1 Hall</b>	<b>COFFEE BREAK</b>
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<b>September 6<sup>th</sup></b> <b>16h45-18h</b> <b>Room: L103</b>	<b>MINI-SYMPOSIUM: TISSUE MODELING TO GET INSIGHTS IN PHARMACOLOGY, AND VICE-VERSA</b>
	<b>Chair:</b> Irene Vignon-Clementel (INRIA Paris & Sorbonne Universités UPMC, FR)
16h45-17h	Noemie Boissier, Stefan Hoehme, Adrian Friebel, Geraldine Celliere, Tim Johann, Jan Hengstler, Irene Vignon-Clementel and Dirk Drasdo. <i>Study of the effect of partial hepatectomy on liver function through modeling of ammonia detoxification.</i>
17h-17h15	Fabien Raphel, Muriel Boulakia, Philippe Zitoun and Jean-Frederic Gerbeau. <i>Modeling of Field Potential in Microelectrode Arrays and Applications in Safety Pharmacology</i>
17h15-17h30	Navina Waschinsky, Tim Ricken and Lena Lambers. <i>On a Tri-Scale Multiphase Model for the Description of Perfusion coupled to Growth Effects in Human Liver</i>
17h30-17h45	Chloe Audebert, Anthony Daures, Philippe Rizo, Eric Vibert and Irene E. Vignon-Clementel. <i>Intra-operative quantitative estimation of liver function with indocyanine green fluorescence measurements</i>
17h45-18h	Geraldine Celliere, Ahmed Ghallab, Noemie Boissier, Stefan Hoehme, Tim Johann, Jan Hengstler, Dirk Drasdo. <i>Integrated vs. multi-level/multi-scale spatial temporal modeling of ammonia detoxification after drug-induced liver damage: using modeling to guide towards a new therapy approach</i>

<b>September 6<sup>th</sup></b> <b>16h45-17h45</b> <b>Room: L200</b>	<b>SESSION: SOFT TISSUE MODELING (I)</b>
	<b>Chair:</b> Jean-Marc Allain (Ecole Polytechnique, FR)
16h45-17h	Asma Salhi, Valerie Burdin, Tinashe Mutsvangwa, Sudesh Sivarasu, Sylvain Brochard and Bhushan Borotikar. <i>Subject-specific Shoulder Muscle Attachment Region Prediction Using Statistical Shape Models: A Validity Study</i>

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17h-17h15	Jean-Sébastien Affagard, Guillaume Ducourthial, Christelle Bonod-Bidaud, Maeva Lopez Poncelas, Florence Ruggiero, Marie-Claire Schanne-Klein and Jean-Marc Allain. <i>The microscopic behavior of a Holzapfel-like model is supported only for low strain: application to mice skin</i>
17h15-17h30	Anthony Marreiro, Fabien Beaumont, Redha Taïar and Guillaume Polidori. <i>Computational Fluid Dynamics (CFD) applied to Whole Body Cryotherapy (WBC)</i>
17h30-17h45	Marie-Angèle Abellan, Meriem Ayadh, Khouloud Azzez, Jean-Michel Bergheau and Hassan Zahouani. <i>Assessment of the anisotropy of in vivo human skin: numerical simulations of multi-axial contact-free creep tests</i>

<b>September 6<sup>th</sup> 18h PG1 Hall</b>	<b>WELCOME RECEPTION</b>
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ICCB 2017 – Daily Program – September 7 2017

<p>September 7<sup>th</sup> 9h-9h40 Room: L202</p>	<p><b>PLENARY LECTURE IV: Prof. Edward H. Shortliffe (Arizona State University, USA)</b> <i>Clinical Decision Support Systems: Their evolution and role in delivering evidence and advice for practitioners</i></p>
	<p><b>Chair:</b> Damien Lacroix (University of Sheffield, UK)</p>

<p>September 7<sup>th</sup> 9h45-10h45 Room: L103</p>	<p><b>MINI-SYMPOSIUM: MULTI-PHYSICS AND MULTI-SCALE MODELLING OF MUSCULAR SYSTEMS (II)</b></p>
	<p><b>Chairs:</b> Catherine Marque (Université de technologie de Compiègne, FR) &amp; Sofiane Boudaoud (Université de technologie de Compiègne, FR)</p>
9h45-10h	Vincent Carriou, Jeremy Laforet and Sofiane Boudaoud. <i>Object-oriented programming of optimized analytic neuromuscular model</i>
10h-10h15	Ekin Altan, Leronardo Gizzi and Oliver Röhrle. <i>Modelling the adaptation of skeletal muscles in response to isometric exercise</i>
10h15-10h30	Martina Guidetti, Jacopo Romanò, Dieter Klatt, Thomas Royston, Dario Gastaldi and Pasquale Vena. <i>Dynamic viscoelastic properties of a fiber composite phantom for MRE applications</i>
10h30-10h45	Saeed Zahran, Catherine Marque, Ahmad Diab and Mohamad Khalil. <i>Source localization of uterine activity using Maximum Entropy on the Mean approach</i>

<p>September 7<sup>th</sup> 9h45-10h45 Room: L200</p>	<p><b>SESSION: REAL TIME SURGERY &amp; DYNAMIC IMAGING</b></p>
	<p><b>Chair:</b> Marie-Christine Ho Ba Tho (Université de Technologie de Compiègne, FR)</p>
9h45-10h	Nathan Lauzeral, Domenico Borzacchiello, Francisco Chinesta, Michael Kugler, Yves Remond, Daniel George, Alexandre Hosttetter and Elias Cueto. <i>Data-based parametric modeling of human liver anatomy for patient-specific real-time deformable models in computational surgery</i>

10h-10h15	Carlos Quesada, Iciar Alfaro, David González, Francisco Chinesta and Elías Cueto. <i>Real-time surgical simulation by Proper Generalized Decomposition techniques</i>
10h15-10h30	Giacomo Annio, Andrea Ducci, Gaetano Burriesci and Ryo Torii. <i>Blood flow triple-imaging</i>
10h30-10h45	Bhushan Borotikar, Valérie Burdin, Nsona Malanda, Etienne Saudeau, Ojasvi Alankar, Douraied Ben Salem and Sylvain Brochard. <i>Evaluating in vivo dynamic ankle kinematics in children with spastic equinus due to cerebral palsy: A feasibility study</i>

<b>September 7<sup>th</sup></b> <b>10h45-11h15</b> <b>PG1 Hall</b>	<b>COFFEE BREAK</b>
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<b>September 7<sup>th</sup></b> <b>11h20-11h55</b> <b>Room: L202</b>	<b>PLENARY LECTURE V: Prof. Damien Lacroix (University of Sheffield, UK)</b> <i>Multiscale modelling of the musculoskeletal system</i>
	<b>Chair:</b> Ralph Müller (ETH Zurich, Switzerland)

<b>September 7<sup>th</sup></b> <b>12h-13h</b> <b>Room: L103</b>	<b>MINI-SYMPOSIUM: MULTISCALE BIOMECHANICS AND MECHANOBIOLOGY OF BONE AND RELATED TISSUES (II)</b>
	<b>Chairs:</b> Christian Hellmich (Vienna University of Technology, Austria) & Peter Pivonka (Queensland University of Technology, Australia)
12h-12h15	Patrick Christen, Nicholas Ohs, Yuk-Wai Wayne Lee, Tsz-Ping Lam, Peter Arbenz and Ralph Müller. <i>A computational data science framework for personalised bone health prognosis</i>
12h15-12h30	Aurélie Carlier, Aliaksei S. Vasilevich, Nick R.M. Beijer and Jan de Boer. <i>In silico modelling of cell-topography induced migration</i>
12h30-12h45	Aleš Kurfürst and Christian Hellmich. <i>From CT images to non-homogeneous Timoshenko beams: a computational biomechanics approach</i>

12h45-13h	Witold Krasny, Claire Morin, H�el�ene Magoariec and St�ephane Avril. <i>Fiber reorientation in carotid arteries under tension-inflation mechanical loading</i>
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<b>September 7<sup>th</sup></b> <b>12h-13h</b> <b>Room: L200</b>	<b>SESSION: SPINE MODELING</b>
	<b>Chair:</b> Damien Lacroix (University of Sheffield, UK)
12h-12h15	Ee Chon Teo, Tian Xia Qiu, Stepanka Haiblikova and Ludivine Vignard. <i>Finite element study:- Locus of Axis of Rotation of T11-T12 and T12-L1 Segments under different loading configurations</i>
12h15-12h30	Fernando Y. Zapata-Cornelio, Marl�ene Mengoni, Vithanage N. Wijayathunga and Ruth K. Wilcox. <i>The use of 3D in-vitro intervertebral disc bulge in the validation of specimen-specific finite element models.</i>
12h30-12h45	Fernando Y. Zapata-Cornelio, Sebastien N.F. Sikora, Diane E. Gregory, Ruth K. Wilcox and Marlene Mengoni. <i>On measuring pre-strain and functional extrafibrillar behaviour of the annulus fibrosus to reverse-engineer its fibrous behaviour</i>
12h45-13h	NH, Quang NH, M Labrune, TT Dao, A Rassineux, MC Ho Ba Tho. <i>Material driven mesh derived from medical images. A case study on patient specific modeling of the lumbar spine.</i>

<b>September 7<sup>th</sup></b> <b>13h-14h30</b> <b>PG2 Hall</b>	<b>LUNCH</b>
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<b>September 7<sup>th</sup></b> <b>14h30-15h10</b> <b>Room: L202</b>	<b>PLENARY LECTURE VI: Prof. Christian Hellmich (Vienna University of Technology, Austria)</b> <b><i>Layered water in bone as key for its strength, creep, permeability, and mechanosensitivity</i></b>
	<b>Chair:</b> Pasquale Vena (Politecnico di Milano, IT)

<b>SESSION: SOFT TISSUE MODELING (II)</b>	
<b>September 7<sup>th</sup> 15h15-16h15 Room: L103</b>	<b>Chair:</b> Jean-Marc Allain (Ecole Polytechnique, FR)
15h15-15h30	Fernando Ramirez, Alvaro Achury, Alejandro Arciniegas, Fredy E Segura-Quijano and Juan C Bohorquez. <i>An alternative tonometric results analysis for measuring intraocular pressure – A computational approach</i>
15h30-15h45	Florent Wijanto, Matthieu Caruel and Jean-Marc Allain. <i>Modeling fiber interface with stochastic cross-bridge</i>
15h45-16h	Ang-Xiao Fan, Mohamed Dieng, Quentin Dermigny, Mohamed Rachik, Tien-Tuan Dao, Marie Christine Ho Ba Tho. <i>An optimized parameter identification of soft biological tissue through finite element analysis and biaxial tensile tests: application on abdominal porcine skin</i>
16h-16h15	Syrine Ben Yahia, Khouloud Azzez, Marie-Angèle Abellan, Coralie Thieulin, Jean-Michel Bergheau and Hassan Zahouani. <i>Mechanical barrier function of in vivo human skin stratum corneum: viscoelastic numerical simulations incorporating damage</i>

<b>SESSION: TOOLS DEMONSTRATION</b>	
<b>September 7<sup>th</sup> 15h15-16h15 Room: L200</b>	<b>Chair:</b> Tien Tuan Dao (Université de technologie de Compiègne, France)
	C3M – (Computed Material-driven Mesh Modeling) software (BMBI, UTC, France) Dynamic imaging : Magnetic Resonance and Ultrasonic Elastography (BMBI, UTC, France) Serious game for functional rehabilitation (BMBI, UTC, France)

<b>September 7<sup>th</sup> 16h15-16h45 PG1 Hall</b>	<b>COFFEE BREAK</b>
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<b>September 7<sup>th</sup></b> <b>16h45-17h45</b> <b>Room: L103</b>	<b>MINI-SYMPOSIUM: COMPUTATIONAL BIOMECHANICS OF DENTAL IMPLANTS AND FACE MODELING</b>
	<b>Chair:</b> Valerie Kromer (Université de Lorraine, FR)
16h45-17h	Jean-Christophe Lutz, Vincent Agnus, Alexandre Hostettler, Yves Rémond, Luc Soler. <i>Development of novel tools based on patient specific models for guidance and education and orthognathic surgery.</i>
17h-17h15	Louis-Marc Favot, Berry-Kromer Valérie and Mohamed Haboussi. <i>Analysis of the influence of a four-implant retained bridge on the stress state in mandibular bone</i>
17h15-17h30	Ang Xiao Fan, Stéphanie Dakpe, Tien-Tuan Dao, Philippe Pouletaut, Mohamed Rachik and Marie-Christine Ho Ba Tho. <i>Skeletal Muscle Coordination for Facial Mimic Simulation</i>
17h30-17h45	S Dakpé, T T Dao, B Devauchelle, MC Ho Ba Tho. <i>Deformation pattern of the skeletal muscle derived from MRI: Application to the facial mimics</i>

<b>September 7<sup>th</sup></b> <b>16h45-17h45</b> <b>Room: L200</b>	<b>SESSION: BIOINSPIRED SYSTEM MODELING</b>
	<b>Chair:</b> Karim El Kirat (Université de technologie de Compiègne, France) & Pascal Vena (Politecnico di Milano, IT)
16h45-17h	Karim El Kirat. <i>Biomechanics of Biomimetic and Bioinspired Systems</i>
17h-17h15	Abdeali Dhuliyawalla, Suraj Panigrahi, Marie Christine Ho Ba Tho, Tien-Tuan Dao. <i>Data-driven and human-inspired design of a scalable lower extremity exoskeleton.</i>
17h15-17h30	Sofiane, El Kirat-Chatel. <i>AFM to decipher biological surfaces properties.</i>
17h30-17h45	Audrey Beaussart. <i>How to probe biological forces by AFM.</i>

<b>September 7<sup>th</sup></b> <b>19h30</b>	<b>BANQUET - Château de Compiègne</b>
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ICCB 2017 – Daily Program – September 8 2017

<p>September 8<sup>th</sup> 9h-9h40 Room: L202</p>	<p><b>PLENARY LECTURE VII: Prof. Marie Oshima (The University of Tokyo, Japan)</b> <b>Multi-scale simulation of cerebral blood flow for predictive medicine</b></p>
	<p><b>Chair:</b> Dominique Barthès- Biesel (UTC, France)</p>

<p>September 8<sup>th</sup> 9h45-10h45 Room: L202</p>	<p><b>MINI-SYMPOSIUM: MODELING OF BIOFLUIDS FROM VASCULAR FLOWS TO CELL DYNAMICS (I)</b></p>
	<p><b>Chairs:</b> Anne-Virgine Salsac (Université de Technologie de Compiègne, FR), Gaetano Burriesci (University College London, UK)</p>
9h45-10h	Nicolas Meunier, Matthieu Piel and Raphaël Voituriez. <i>A minimal multi-scale approach for cell migration modelisation</i>
10h-10h15	Giorgia Maria Bosi, Andrew Cook, Rajan Rai, Leon Menezes, Silvia Schievano, Ryo Torii and Gaetano Burriesci. <i>Computational Fluid Dynamic Analysis of the Left Atrial Appendage to Predict Thrombosis Risk</i>
10h15-10h30	Carlos Quesada, Pierre Villon and Anne-Virginie Salsac. <i>Reduced-order model of the deformation of elastic microcapsules in flow</i>
10h30-10h45	Franz Bozsak, Elizabeth Antoine, Francois Cornat and Abdul Barakat. <i>Optimizing the Performance of Drug-Eluting Stents: Simulations and Experiments</i>

<p>September 8<sup>th</sup> 10h45-11h15 PG1 Hall</p>	<p><b>COFFEE BREAK</b></p>
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<p><b>September 8<sup>th</sup></b>  <b>11h20-12h20</b>  <b>Room: L202</b></p>	<p><b>MINI-SYMPOSIUM: MODELING OF BIOFLUIDS FROM VASCULAR FLOWS TO CELL DYNAMICS (II)</b></p>
	<p><b>Chairs:</b> Anne-Virgine Salsac (Université de Technologie de Compiègne, FR), Gaetano Burriesci (University College London, UK)</p>
<p>11h20-11h35</p>	<p>Stephanie Lindsey, Jonathan Butcher and Irene Vignon-Clementel. <i>Characterization of Early Avian Great Vessel Morphogenesis through Multiscale Modeling</i></p>
<p>11h35-11h50</p>	<p>Sebastián Aristizábal Suárez, Gustavo Suárez Guerrero, John Bustamante Osorno and Raúl Valencia Cardona. <i>Mathematical Modelling And Simulation Of Drug Diffusion In The Blood Flow: A Fluid-Particle Interaction</i></p>
<p>11h50-12h05</p>	<p>Zhen Wang, Anne-Virginie Salsac, Dominique Barthès-Biesel, Wen Wang and Yi Sui. <i>Motion of a spherical capsule flowing in a branched tube with finite inertia</i></p>
<p>12h05-12h20</p>	<p>Giulia Comunale, Massimo Padalino, Giovanni Stellin, Gaetano Burriesci, Paolo Peruzzo and Francesca Maria Susin. <i>Physiology of single ventricle circulation: basic hydraulics explains basic complications.</i></p>

<p><b>September 8<sup>th</sup></b>  <b>12h20-13h20</b>  <b>Room: L202</b></p>	<p><b>MINI-SYMPOSIUM: MODELING OF BIOFLUIDS FROM VASCULAR FLOWS TO CELL DYNAMICS (III)</b></p>
	<p><b>Chairs:</b> Anne-Virgine Salsac (Université de Technologie de Compiègne, FR), Gaetano Burriesci (University College London, UK)</p>
<p>12h20-12h35</p>	<p>Badr Kaoui. <i>Impact of the viscosity contrast on dynamics, rheology and partitioning of red blood cells in the microcirculatory system</i></p>
<p>12h35-12h50</p>	<p>Marc Maher, Patricia Cathalifaud and Mokhtar Zagzoule. <i>A Coaxial coupled model of cerebral flows: Blood and Cerebrospinal Fluid</i></p>
<p>12h50-13h05</p>	<p>Ilyesse Bihi, Jason Butler and Farzam Zoueshtiagh. <i>Motion of freely spheroidal particle near a wall</i></p>
<p>13h05-13h20</p>	<p>Paolo Peruzzo, Giulia Comunale, Stefano Bonvini, Daniela Boso and Francesca Maria Susin. <i>Can an aortic phantom correctly reproduce the aortic arch physiology?</i></p>

**September 8<sup>th</sup>**  
**13h20-14h50**  
**PG2 Hall**

**CLOSING CEREMONY (L202) & LUNCH PG2**