

Mercredi 27 août 2014				
Accueil				
Cérémonie d'ouverture				
Conférence plénière : H.E.J. Veeger				
Biomécanique du muscle	Biomécanique cardiovasculaire	Ergonomie, Handicap et Réhabilitation		
14h35	14h55	A Framework Towards Personalization and Active Muscle Integration in a 3D Finite Element Neck Model for Orthopaedic Applications <i>S. Howley, D. Bonnaire, B. Fréchet</i>	Thoracic aorta morphometry and endograft deployment <i>C. Guivier-Curién, M. Bouff, V. Deplano, O. Bairo, A. Loundou, Y. Alimi</i>	Does the handle shape influence the prehensile capabilities and the muscle coordination? <i>J. Rossi, B. Goussard de Monsabert, E. Berton, L. Vigouroux</i>
14h55	15h15	Effect of vibration frequency and angle knee flexion on muscular activity and transmissibility function during static whole body vibration exercise <i>S. Duc, M. Naveas, X. Châmentier, W. Bertrac</i>	Increase of coronary microvascular resistances after recanalization with Drug Eluting Stent <i>A. Anselmi, M. Hammouch, J.P. Verhoye, H. Carbineau, C. Mariano, M. Moassrani, A. Drochon</i>	A preliminary study on the realism of digital human manikins used for ergonomics simulation <i>A. Nérot, W. Skalli, G. Beurier, X. Wang</i>
15h15	15h35	Impact of Partial-Thickness Tears on Suprapatellar Tendon Strain Based on a Finite Element analysis <i>C. Engelhardt, A. Farron, F. Becce, D. Pioletti, A. Terrier</i>	Left atrium wall tracking from MR images for strain assessment <i>M. Evini, A. Redheuil, S. Hatem, D. Rosenbaum, K. Bouazzi-Verdier, A. De Cesare, P. Cluël, N. Kachenoura</i>	Combined experimental and numerical approach for the assessment of pressure generated by elastic compression bandage <i>F. Chossagne, R. Convert, J. Mallinard, P. Bodel</i>
15h35	15h55	Small cause, great impact: A sensitivity study in musculoskeletal modeling of the hand <i>C. Hansen, K. Ben Mansour, P. Devos, F. Marin</i>	A new finite element method for inverse problems in structural analysis: Application to atherosclerotic plaque elasticity reconstruction <i>A. Bouvier, F. Deleaval, M.M. Doyle, A. Talleu, G. Finet, S. Le Flac'h, G. Cloutier, R.L. Pettigrew, J. Ohayon</i>	Is the kinematic of the trunk during the forehead in tennis still disrupted in women at one year of postpartum? <i>R. Doya, A. Pinti, A. Bourrelly, S. Boudet, E. Watelain</i>
15h55	16h30	Visite des stands - Posters et Pause café		
Biomécanique du muscle	Biomécanique cardiovasculaire	Ergonomie, Handicap et Réhabilitation		
16h30	16h50	Muscular power as a function of load in elderly women <i>H. Zbinden-Foncea, T. Valenzuela, F. Espildora, M. Penailillo, P.A. Willems</i>	Numerical simulation of LDL transport through the Carotid arterial wall <i>C. Hansen, D. Boy, M.R. Jensen, B. Gervang, H.M. Jensen, S.A. Thyrsøe, J.V. Nygaard</i>	Analysis biomechanic of the 3D angle of the Upper Limb: Study of manual wheelchair obstacle climbing <i>C. Marchiori, G. Desroches, D. Gagnon, D. Bensmail, D. Pradon</i>
16h50	17h10	Tensile response of the muscle-tendon complex using Discrete Element Model <i>A. Roux, J. Lecompte, L.L. Gros, S. Laporde, I. Jordanoff</i>	Numerical modeling of the flow of the ultrasound contrast agents in tumor microvasculature <i>L. Boyer, P. Le Notre, S. Randall Thomas, I. Leguerney, N. Lossau, S. Pitre-Champagnat</i>	Turning resistance on a manual wheelchair: a theoretical study <i>J. Bascou, H. Pillet, K. Kollia, C. Saurer, P. Thoreux, F. Lavaste</i>
Prix du Jeune Chercheur				
17h15	17h35	Contrasted mediolateral postural control mechanisms in varied foot positions <i>C. Bonnet</i>	Assessment of a new model of balance recovery by stepping <i>T. Robert, P. Vallee</i>	In-vivo Cervical Intervertebral Disc Characterization by Elastography <i>C. Vergari, P. Rouch, G. Dubois, D. Bonnaire, J. Duboussat, M. Tarter, J.-L. Gennisson, W. Skalli</i>
Prix de Thèse Biométrics				

Jeudi 28 août 2014				
Accueil				
Biomécanique du mouvement	Biomécanique ostéoarticulaire	Biomécanique du Sport		
8h50	9h10	Analysis of ankle stiffness for asymptomatic subjects and transfemoral amputees in daily living situations <i>X. Drevelle, C. Villo, X. Bonnet, J. Bascou, I. Loiret, H. Pillet</i>	Computed Tomography Morphometric Analysis of Porcine Spinal Growth for Scoliosis Model Development <i>P. Pillard, T. Cacho, C. Carozzo, D. Fax, T. Odent, E. Viguière</i>	Muscle coordination in loaded squat jump <i>C. Giroux, G. Guilhem, D. Chollet, G. Rabito</i>
9h10	9h30	Introduction of a set of EMG-based muscular activations in a multi-objective optimization when solving the muscular redundancy problem during gait <i>F. Moissenet, L. Chêze and R. Dumas</i>	Biomechanical analysis of spinal instrumentation systems dedicated to stabilize thoracolumbar fractures: Comparison between standard open surgical instrumentation and percutaneous techniques <i>A. Germaine, M. Saget, T. Vendevue, P. Doumain, J.C. Dupré, F. Brémond, F. Hesser, P. Maxy, P. Rigard</i>	Influence of the racket on the variability of humerotheracic joint kinematics during tennis serve: a preliminary study <i>V. Sevez, T. Creveaux, R. Dumas, L. Chêze, B. Coste and I. Rogowski</i>
9h30	9h50	Effect of custom foot orthotics on three dimensional kinematics and dynamics during walking <i>S. Delcroix, A. Lavigne, D. Nuytens, L. Chêze</i>	The influence of age and localization on pedicle fixation in immature porcine spines <i>S. Le Can, T. Cacho, E. Viguière, C. Baron, A. Miladi, T. Odent, J.M. Rossi, P. Chabrand</i>	Methodological contribution to study the vibratory behavior of tennis-racket following real forehead hand force impact <i>T. Creveaux, V. Sevez, B. Coste and I. Rogowski</i>
9h50	10h10	What is the most efficient for torque steadiness in young adults: a real-time visual feedback of performance or proprioceptive inputs? <i>A. Taoum, I. Hlail, E. Simoneau-Buessinger</i>	Finite element investigation of the intervertebral disc behavior <i>B. Aour, N. Damba</i>	Bilateral comparison of scapulothoracic kinematics during scaption in girl tennis players <i>V. Racaud, B. Gillet, Q. Mercier, T. Creveaux, V. Sevez, I. Rogowski</i>
10h15	11h20	Session POSTER		
Biomécanique du mouvement	Biomécanique cellulaire et tissulaire	Biomécanique du Sport		
11h25	11h45	Analysis of long-range autocorrelation series: effect of number of cycles on statistical precision and sensitivity <i>T. Warlop, F. Creveceur, B. Bollens, C. Detrembleur, T. Lejeune</i>	Comparison of different viscoelastic models for the characterization of mechanical properties of human skin in vivo by indentation test <i>M.A. Abellán, J.M. Berghau, H. Zohuani</i>	Swimming drafting simulation using a k- ϵ turbulence model and Computational Fluid Dynamics <i>A. Arfaoui, G. Polidori</i>
11h45	12h05	Walking efficiency in children with cerebral palsy: Relation with muscular strength and gait parameters <i>A. Poulot-Laforte, A. Parent, I. Ballaz</i>	Biaxial mechanical response of graft material derived from human skin <i>G.E. Leclerc, Q. Demigny, M. Rachik, M.-C. Ho Ba Tho</i>	Analysis of 3D motion patterns with Self-Organizing Maps (SOM) and Statistical Parametric Mapping (SPM): a methodological proposal <i>B. Serrien, J. Blondeel, R. Clisen, M. Goossens, J.P. Boeyens</i>
12h05	12h25	How do healthy older pedestrians walk when they cross the street? <i>J. Delorme, A. Bourrelly, C. Garnier, J. Novetec, E. Watelain</i>	Annulus Fibrosus microstructure: an explanation to local heterogeneities <i>A. Balidit, D. Ambard, F. Chêze, P. Royer</i>	Validation of low cost wearable accelerometer for temporal gait parameters quantification <i>K. Ben Mansour, N. Rezaoui, J. Jacquier-Bret, P. Gorce</i>
12h25	12h45	The contribution of handgrip assistance on lower limb joint moments during sit-to-stand and stand-to-sit: a preliminary comparative study <i>A. Soade, P. Pudlo, M. Lempereur, D. Rémy-Néris</i>	Time required for an oblate capsule in flow to reach equilibrium <i>C. Dupont, F. Delahaye, D. Barthès-Biesel, A.-V. Salsac</i>	Effects of speed on the vertical amplitude of the stride in trotters - comparison between fore- and hindlimbs, and influence of the track surface <i>M. Pauchard, H. Chêzeau, M. Camus, B. Ravary-Plumieus, S. Falola, J. Martino, L. Desquilbet, J.M. Denoux, P. Pourcelot, N. Crevier-Denoix</i>
12h45	14h00	Pause déjeuner		
14h00	14h40	Conférence plénière : X. Trosseille		
Biomécanique du mouvement	Posture et équilibre - SB-SOFMER	Biomécanique des chocs - GRBC		
14h45	15h05	Influence of biomechanical multi-joint models used in global optimization to estimate healthy and osteoarthritis knee kinematics <i>J. Clément, N. Hagemeister, R. Dumas, M. Kanhanou, J.A. de Guise</i>	ARMA Modeling and Nonparametric Probability Density Function of Gait Signal Using LZ-L1 estimator in Patients with Neuro-Degenerative Disease <i>C. Corber, M. El Badoui</i>	Intermediate strain rate behavior of cancellous bone: From the lower to the higher strain rate <i>M. Prat, T.J. Coetzee, D. Saletti, S. Laporde</i>
15h05	15h25	Knee cross-talk is not a quality indicator of the hip rotation <i>E. Desailly</i>	Behaviour of the muscle-tendon unit of the gastrocnemius medialis and tibialis anterior during forward and backward sways <i>S. Baudry, J. Johansson, J. Duchateau</i>	A methodology to assess non-axial loading on the distal radius <i>E. Zapata, F. Dubouche, R. Eloua, S. Boutry, D. Mital, H. Follet</i>
15h25	15h45	An upper limb model proposal for multi body-optimisation: Effects of anatomical constraints on the kinematics <i>A. Naaim, A. El Hachimi, F. Moissenet, R. Dumas, L. Chêze</i>	Adapted Physical Activity Intervention and Vestibular Disorders <i>M. Donnard, A. Rahmani, P. Larin, S. Boyas, B. Beaurne</i>	Experimental and numerical studies of fluid/structure interaction phenomena inside the head when subjected to a dynamical loading <i>B. Fontenier, A. Houit-Gubralic, J. Rahmann, H. Naceur, P. Draetic, C. Fontaine</i>
15h45	16h05	Effects of gono-humeral joint center mislocation on shoulder kinematics and kinetics <i>M. Lempereur, N. Leboeuf, F. Barbier, C. Brochant, O. Rémy-Néris</i>	Unipodal landing in individuals with unilateral chronic ankle instability <i>R. Pionnier, N. Décoloux, F. Barber, C. Papineau, E. Simoneau-Buessinger</i>	Investigation of 6YO Hybrid III Dummy necks stiffness and the consequences regarding Out of Position Neck Injury Criteria <i>E. Ajlalo, E.-W. Blumelcke, M. Klopffer and H. Naceur</i>
16h05	16h25	A qualitative analysis of soft tissue artefact during running <i>R. Dumas, V. Comanillo, T. Bonci, L. Chêze, A. Coppizzo</i>	Sled Acceleration Control for Low-speed Impact Testing and Transient Response Studies <i>B. Sandaz, A. Simonin, D. Saetti, S. Laporde</i>	
16h25	17h00	Visite des stands - Posters et Pause café		
17h00	18h00	Assemblée Générale		
19h00	20h15	Centre historique minier de Lewarde		
20h15	23h30	Repas de Gala		

Vendredi 29 août 2014				
Accueil				
Biomécanique du mouvement	Biomatériaux et ingénierie tissulaire	Biomécanique tissulaire		
9h45	10h05	Functionality computed flexion axis reduces kinematic interspecimen variation in in-vitro experiments <i>I. Reichl, U. Leichte, A. Lorenz</i>	Compression, shear and bending on tissue engineered cartilage: a numerical study <i>C. Banderias, A. Completo, A. Ramos</i>	New magnetic resonance elastography protocols to characterize deep back and thigh muscles <i>M.K. Chakouch, C. Charleux, S.F. Bensmaou</i>
10h05	10h25	Estimation of the fingers joint axes of rotation in flexion-extension <i>P. Devos, K. Ben Mansour, C. Hansen, F. Marin</i>	Dynamic mesenchymal stem cells volumic seeding in a commercialized porous ceramic scaffold: a feasibility study <i>S. Lemonnier, T. Bauderlique, P. Banesse, S. Nalli, N. Chevallier, H. Rouard, J. Courty, T. Lemaire</i>	The Role of Implant's Surface Treatment to its Preload <i>L. Copek, A. Simunek, A., P. Hens and L. Ozan</i>
10h25	10h50	Visite des stands, posters - Pause café		
Biomécanique du mouvement	Biomécanique ostéo-articulaire	GMCAD et Robotique		
10h50	11h10	An innovative method for the three-dimensional study of hip joint motion <i>N. Bonnaire, J. Bouchallier, M. Houslier, O. Gogry</i>	A model for Micromotion-Induced Fluid Flow at the Bone-Implant Interface <i>V. Maffroy Camine, D. Pioletti, A. Terrier</i>	NITI based stent for the treatment of acute urinary retention due to benign prostatic hyperplasia: a preliminary study on NITI wires and tubes under pure bending <i>G. Antherieu, N. Connexion, Y. Payan, D. Favier, P. Mozer</i>
11h10	11h30	Kinematic model and elbow flexion interaction on shoulder range of motion <i>D. Haring, M. Raisin, A. Jurdik, M. Begon</i>	3D measurement of the displacement of the forelimb hoof during stance in three horses circling at the center on a competition surface <i>N. Crevier-Denoix, M. Camus, S. Falola, B. Ravary-Plumieus, M. Pauchard, J. Martino, L. Desquilbet, H. Chateau, P. Pourcelot</i>	Finite Element modelling of nearly incompressible materials and volumetric locking: a case study <i>P.-Y. Rohan, C. Lobos, M. Ali Nazari, P. Perrier, Y. Payan</i>
11h30	11h50	A method to study 3D knee pseudo-kinematics using low-dose stereo-radiography during static squat <i>M. Kanhanou, T. Cresson, F. Lavoie, J. Clément, N. Hagemeister, J.A. de Guise</i>	Design of an Assistant Robot for Alignment of Fractured Bones in Medical Operations <i>M.-S. Cetingoglu, I. Sancaktar, M. Ulutas and A.H. Eras</i>	
11h50	12h10	Optimization technique of camera placement for Motion Capture simulations <i>A. Aissaoui, Z. Baarir, A. Ouffi, P. Pudlo, A. Taleb-ahmed, C. Gillet, F. Denz</i>	A bio-inspired limb controller for avatar animation <i>A.L. Cruz Ruiz, C. Pantoniery, G. Dumont</i>	
12h10	13h30	Pause déjeuner		
14h00	16h00	Visite des plateformes expérimentales du LAMIH		