Parallel Sessions Programme
This programme includes all the parallel sessions programmed for the ISBS2011 Session’s Rooms (Auditorium and Rooms 1 and 9). It includes Oral Sessions of short presentations and Applied Sessions. The detailed programmes of the Applied Sessions are object of separated documents for each one. In this document, consequently, delegates can only find reference to the date, hour and Room for each Applied Session. Authors are encouraged to follow organization instructions regarding previous e-mail sending of presentation files. Until two sessions before the actual presentation session, authors should visit the “Authors Ready Room” to verify their presentation. Finally the presenting author should attend the presentation room 5 min prior the scheduled hour for the beginning of the session and present her/himself to the Chairperson. Each presentation (with discussion) can’t last more than 13 min, allowing 2 min for transition of presenting authors. Please prepare your presentations for not much more than 10 min of duration. Authors and chairpersons are strongly asked to respect schedule.

28.06.2011 10:00
Auditorium
Oral Session 1 (Biomechanics of Individual Sports - Swimming)
Chairperson:

ID403
COMPARING COMPUTATIONAL FLUID DYNAMICS AND INVERSE DYNAMICS METHODOLOGIES TO ASSESS PASSIVE DRAG DURING SWIMMING GLIDING

ID184
THE EFFECT OF WEARING A CAP ON THE SWIMMER PASSIVE DRAG

ID401
LOWER LIMBS JOINTS MOTION DURING SUBMAXIMAL 100-M BUTTERFLY
Kelly de Jesus, Karla de Jesus, Pedro Figueiredo, Pedro Gonçalves, João Paulo Vilas-Boas, Ricardo J. Fernandes

ID512 (NIA)
TETHERED SWIMMING AS AN USEFUL TOOL TO MEASURE UNBALANCE BETWEEN ARMS
AND FORCE PRODUCTION DECREASE
Pedro G. Morouço, Daniel A. Marinho, Ricardo J. Fernandes, Mário C. Marques

ID581 (NIA)
BIOMECHANICAL ANALYSIS OF STARTING PREFERENCE FOR EXPERT SWIMMERS
Julien Vantorre, Ludovic Seifert, J. Paulo Vilas-Boas, Ricardo Fernandes, Benoit Bideau, Guillaume Nicolas, Didier Chollet

ID407
ARE LAND TESTS A GOOD PREDICTOR OF SWIM START PERFORMANCE?
Jodi Cossor, Sian Slawson, Barry Shillabeer, Paul Conway, Andrew West

28.06.2011 10:00
Room 1
Oral Session 2 (Miscellaneous)
Chairperson:

ID383
KINETIC ANALYSIS OF TOE-ON TKACHEV ON UNEVEN BARS
David G. Kerwin, Gareth Irwin

ID521
EFFECT OF HAND PLACEMENT POSITION ON PRESS-TO-HANDSTAND TECHNIQUES AND STABILITY
Pui Wah Kong, Sin Yung Leung, Yoon Soo Han

ID534
VERTICAL IMPACT FORCE AND LOADING RATE ON THE GYM NASTICS TABLE VAULT
Gabriella Penitente, William A. Sands, Jeni R. McNeal

ID425 (NIA)
COMPARISON OF LUGERS’ START ELEMENTS ON A SLIDING TRACK AND AN ICED START RAMP
Veronika Fedotova, Viktor Pilipiv

ID529
COMPARISON BETWEEN PLYOMETRIC AND ISOKINETIC TRAINING DURING THREE WEEKS ON ISOKINETIC STRENGTH IN SPORT SCIENCES STUDENTS
Isabel Parrilla, Asunción Martínez-Valencia, José María González-Ravé

ID485
ASSESSMENT OF DIFFERENT POWER PARAMETERS ON SQUAT AND LEG PRESS: CONSIDERATIONS FOR POWER DEVELOPMENT
Juvenal Fernandes, Henrique Coimbra, João Carvalho, Luis Sánchez-Medina, Filipe Conceição
28.06.2011 10:00
Room 9
Applied Session: Biomechanical Modelling
Chairperson:

28.06.2011 15:30
Auditorium
Oral Session 3 (Electromyography applied to Sports Biomechanics)
Chairperson:

ID419
THE EFFECT OF JUVENILE IDIOPATHIC ARTHRITIS ON LOWER LIMB MUSCLE ACTIVITY IN THE PROPULSION PHASE OF THE COUNTER MOVEMENT JUMP
Kevin Dwyer, Matthew J Kennedy, Mario Lamontagne, Johannes Roth

ID454
THE EFFECTS OF WEARING SPANDEX WEAR WITH COMPRESSION BAND ON MUSCLE ACTIVITY DURING A GOLF SWING
Dong-soo Kim, Woen-sik Chae, Young-tae Lim, Ho-youl Kang, Chang-soo Yang, Gye-san Lee, Nyeon-ju Kang

ID520
SEMG MEASUREMENTS ON LAND AND IN WATER PRIOR TO AND AFTER 60-90 MINUTES OF SUBMERSION (SWIMMING) ARE HIGHLY RELIABLE
Bjørn Harald Olstad, Jan Cabri, Christoph Zinner, Neuza Nunes, Per-Ludvik Kjendlie

ID568
ELECTROMYOGRAPHIC ANALYSIS OF IMPINGEMENT SYNDROME: COMPARISON IN VOLLEYBALL ATHLETES
Leonor Oliveira, Camilo Moreira, Paulo Carvalho

ID570
THE SWALLOW ELEMENT AND MUSCULAR ACTIVATIONS
Manuel Campos, Filipa Sousa, Eunice Lebre

ID584
A PRELIMINARY STUDY ON HOW FATIGUE AFFECTS SCORING AVERAGE IN PROFESSIONAL DARTS
Michael Walsh, Magdalena Tyndyk, John Barton, Brendan O’Flynn, Cian O’Mathuna
28.06.2011 15:30
Room 1
Oral Session 4 (Biomechanics of Individual Sports – Cycling and Kayaking)
Chairperson:

ID420
INFLUENCE OF RACING POSITION ON CYCLING PATTERNS
Umberto Emanuele, Tamara Horn, Jachen Denoth

ID426
STATIC VERSUS DYNAMIC EVALUATION IN BIKE FITTING: INFLUENCE OF SADDLE HEIGHT ON LOWER LIMB KINEMATICS
Ventura Ferrer-Roca, Andreu Roig, Pedro Galilea, Juan García-López

ID480
PHYSIOLOGICAL AND ELECTROMYOGRAPHIC RESPONSES AT THREE LEVELS OF BICYCLE SEAT HEIGHT
Yi-Ling Chen, Hsin-Wei Huang, Pin-Hui Chen, Yu-Ming Lee, Heng-Ju Lee

ID515
3D KINEMATICS APPLIED TO THE STUDY OF INDIVIDUAL BMX GATE START TECHNIQUE
Kostas Gianikellis, Andreas Skiadopoulos, Alonso Bote

ID428 (NIA)
KINEMATICS IN ELITE KAYAKERS WHILE PADDLING A SLIDING ERGOMETER EQUIPPED WITH STANDARD AND SWIVEL SEATS
Vincent Fohanno, Floren Colloud, Khalil Ben Mansour, Patrick Lacouture

ID437
ANALYSIS OF THE ON-WATER PADDLING FORCE PROFILE OF AN ELITE KAYAKER
Beatriz Gomes, Nuno Viriato, Ross Sanders, Filipe Conceição, João Paulo Vilas-Boas, Mário Vaz

28.06.2011 15:30
Room 9
Oral Session 5 (Biomechanics of Individual Sports)
Chairperson:

ID491
A COMPARISON OF PLANTAR PRESSURES BETWEEN TWO DIFFERENT PLAYING SURFACES IN TENNIS
Michael Eckl, Philipp Kornfeind, Arnold Baca

ID569 (NIA)
THE IMPORTANCE OF WRIST FLEXION AND X-FACTOR IN THE GOLF SWING: A FORWARD
KINEMATIC APPROACH
Matthew Sweeney, Peter Mills, Jacqueline Alderson, Bruce Elliott

ID577
HITTING TO DIFFERENT SPOTS ON THE COURT: THE BALL KINEMATICS OF THE PROFESSIONAL TENNIS SERVICE
Machar Reid, David Whiteside, Bruce Elliott

ID536
KINETIC ANALYSES OF TWO FENCING ATTACKS–LUNGE AND FLECHE
Nathan Morris, Mark Farnsworth, D.G.E. Robertson

ID523
THE RELATIONSHIP BETWEEN THE BARBELL TRAJECTORIES OF SNATCH AND BCH ANGLES
Yi-Hsuan Chen, Hung-Ta Chiu

ID469
BIOMECHANICAL ANALYSIS OF THE EVADING WITH PUSHING TECHNIQUE IN TAI CHI PUSH HANDS
Hui-Chuan Chen, Shih-Yu Kuo, Kuangyou B. Cheng

28.06.2011 17:30
Auditorium
Oral Session 6 (Biomechanics of Injuries and Treatment)
Chairperson:

ID314
INFLUENCE OF TWO TAPINGS ON THE REACTION TIME OF THE PERONEAL MUSCLES
A Ferreira, P Monteiro, P Carvalho, Camilo Moreira

ID417 (NIA)
NEUROMUSCULAR ADAPTATIONS TO BALANCE AND TECHNIQUE TRAINING DURING SIDESTEPPING: IMPLICATIONS FOR ACL INJURY RISK
Cyril Donnelly, Bruce Elliott, Tim Doyle, Caroline Finch, Alasdair Dempsey, David Lloyd

ID492 (NIA)
JOINT KINEMATICS OF LANDING IN ACL REHABILITATED VOLUNTEERS
Sarah Breen, Andrew J. Harrison, Ian C. Kenny

ID493
BODY KINEMATICS DURING SINGLE-LEG LANDING FROM VARYING HEIGHTS AND
DISTANCES– IMPLICATIONS FOR NON-CONTACT ACL INJURIES: CASE REPORT
Nicholas Ali, D. Gordon, E. Robertson, Gholamreza Rouhi

ID498
THE ANTERIOR CRUCIATE LIGAMENT INURY PREVENTION PROGRAM: A META-ANALYSIS
Chang-Soo Yang, Gye-San Lee, Jin-Goo Kim, Yong-Seuk Lee, Chul-Soo Chung, In-Sik Shin,
Young-Hoo Kwon, Suk-In Lee, Jin Yoo, Bee-Oh Lim

ID544 (NIA)
EFFECT OF BRACE TYPE ON KNEE JOINT LAXITY AND FUNCTIONAL ACHIEVEMENTS FOR
PATIENTS WITH ACL RUPTURED KNEES
Gerda Strutzenberger, Michel Braig, Stefan Sell, Hermann Schwameder

28.06.2011 17:30
Room 1
Oral Session 7 (Biomechanical Modelling and Simulation)
Chairperson:

ID470
A VIRTUAL CRANKSHAFT THIGH MODEL TO ESTIMATE TIBIAL-FEMORAL TRANSVERSE PLANE
KINEMATICS
Daniel N. Bassett, Matteo R. Bosisio, Thomas S. Buchanan, Mario Lamontagne, Giuliano G.
Cerulli

ID500 (NIA)
BIOMECHANICAL MODELLING FOR COMPUTATION OF KNEE JOINT TORQUE IN DIFFERENT
STRATEGIES OF STOP-JUMP LANDING
Leili Mahdieh, Shahram Lenjannejad, Gholamali Ghasemi, Mehrdad Poorsina, Sara
Mirtavoosi

ID507
OPTIMALITY CRITERIA FOR HUMAN RUNNING INVESTIGATED BY FORWARD DYNAMICS
SIMULATIONS
Ross H. Miller, Brian R. Umberger, Graham E. Caldwell
ID552

ID552 (NIA)
COMPUTATION OF ANKLE TORQUE IN DIFFERENT STRATEGIES OF LANDING BY DYNAMIC
MODELLING
Sara Mirtavoosi, Shahram Lenjannejad, Khalil Khayambashi, Hamid Salehi, Leili Mahdieh

ID373
GROUND REACTION FORCE AND PLANTAR PRESSURE OF TWO JUMPING HEAD-OUT
AQUATIC EXERCISES
Mª Margarida Espanha, Júlia Teles, Valquiria Alves, Sandra Pais
KINETICS OF THE LOWER EXTREMITIES IN ERGOMETER ROWING DEPEND ON BODY MASS INDEX
Karen Roemer, Stephanie Hamilton, Chris Richter

28.06.2011 17:30
Room 9
Applied Session: Track and Field - Jumps
Chairperson:
29.06.2011 10:00
Auditorium
Oral Session 8 (Biomechanical Modelling and Simulation)
Chairperson:

ID450
ELECTROMYOGRAPHIC WAVELET ANALYSIS OF LOWER EXTERMITY MUSCLES DURING SPRINT START AND TWO SUBSEQUENT STEPS
Saeed Ilbeigi, Bart Van Gheluwe

ID27
RELATIVE CONTRIBUTION OF THE JOINT MOMENTS TO THE ANGULAR ACCELERATION OF THE LOWER LIMB IN HOPING EXERCISE
Filipa João, António Veloso

ID540
OPTIMAL STRATEGIES IN DIVING FOR DIVES OF THE REVERSE GROUP VIA EVOLUTIONARY ALGORITHMS
Axel Schüler, Thomas Köthe, Thomas Molka, Falk Hildebrand

ID300 (NIA)
IS THE PRINCIPAL COMPONENT ANALYSIS A MORE EFFICIENT METHOD TO DETECT DIFFERENCES ON BIOMECHANICAL VARIABLES BETWEEN GROUPS OF PARTICIPANTS?
Giulia Mantovani, Mario Lamontagne, Daniel Varin, Giuliano G. Cerulli, Paul E. Beaulé

ID399 (NIA)
ANALYSIS OF THE CONTRACTION OF THE PUBOVISCERAL MUSCLE BASED ON A COMPUTATIONAL MODEL
Thuane da Roza, Maíta Poli de Araújo, Teresa Mascarenhas, Joana Loureiro, Marco Parente, Renato Natal Jorge

ID457
MODELLING THE BEHAVIOUR OF SERIES ELASTIC ELEMENT DURING IMPULSIVE MOVEMENTS
Filipe Conceição, João Carvalho

29.06.2011 10:00
Room 1
Oral Session 9 (Biomechanics of Gait and Running)
Chairperson:

ID508 (NIA)
AN INVESTIGATION INTO THE WITHIN AND BETWEEN PARTICIPANT VARIANCE IN THREE-DIMENSIONAL BREAST KINEMATIC DATA DURING A 5 KM RUN
Alexandra Milligan, Joanna Scurr, Chris Mills, Louise Wood
THE EFFECT OF CHANGING-SPEED ON THE TOE HEIGHT ON TREADMILL RUNNING
Ya-Han Chang, Pei-Wei Chi, Hung-Ta Chiu

EFFECTS OF FATIGUE ON THE LEG KINETICS IN ALL-OUT 600M RUNNING
Hirosuke Kadono, Michiyoshi Ae, Yuta Suzuki, Kazuhito Shibayama

THE EFFECT OF THE BEND ON TECHNIQUE AND PERFORMANCE DURING MAXIMAL SPEED SPRINTING
Sarah M. Churchill, Aki I.T. Salo, Grant Trewartha

CHANGES IN STEP CHARACTERISTICS DURING SPRINT PERFORMANCE DEVELOPMENT
Laura Charalambous, David G. Kerwin, Gareth Irwin, Ian N. Bezodis, Stephen Hailes

29.06.2011 10:00
Room 9
Oral Session 10 (Biomechanical Instrumentation & Evaluation Methods)
Chairperson:

THE EFFECT OF DIGITAL FILTERING PROCEDURES ON KNEE JOINT MOMENTS IN SPRINTING
Neil E. Bezodis, Aki I. T. Salo, Grant Trewartha

COMPARISON OF VERFICAL GRF OBTAINED FROM FORCE PLATE, PRESSURE PLATE AND INSOLE PRESSURE SYSTEM
Marcelo Castro, Denise Soares, Leandro Machado

A COMPARISON OF VERTICAL JUMP DISPLACEMENTS BETWEEN A VERTEC™ AND A FORCEPLATE
Bryan Christensen, Sarah Hilgers, John Schuna Jr, Casey Radenic, Kassie Krebsbach, Donna Terbizon, Jared Tucker, Trista Manikowske, Gary Liguori

APPLICATION OF PRINCIPAL COMPONENT ANALYSIS IN THE STUDY OF TASKS WITH DIFFERENT MECHANICAL CONSTRAINTS
Gustavo Leporace, Adriane M. Muniz, Glauber Pereira, Leonardo Metsavaht, Luiz Alberto Batista, Jurandir Nadal
WIRELESS VERTICAL DISPLACEMENT MEASUREMENT DURING RUNNING USING AN ACCELEROMETER AND A MOBILE PHONE
Martin Eriksson, Dennis Sturm, Kjartan A. Halvorsen, Lennart Gullstrand

IN VIVO MEASUREMENT OF STIFFNESS AND VISCOSITY OF SURAL TRICEPS
F. París-Garcia, A. Barroso, J. Ribas, J. Cañas, F. Paris
30.06.2011 10:00
Auditorium
Oral Session 11 (Biomechanics of Muscles and Connective Tissue)
Chairperson:

ID408 (NIA)
DOES TECHNIQUE CHANGE AFFECT MUSCULAR SUPPORT AT THE KNEE IN SIDESTEP CUTTING?
Alasdair R Dempsey, Bruce C Elliott, David G Lloyd

ID583 (NIA)
SIDESTEP CUTTING TECHNIQUE AND KNEE VALGUS MOMENTS
Eirik Kristianslund, Tron Krosshaug

ID325
NON INVASIVE MONITORING OF IN-VIVO MUSCLE-TENDON MECHANICAL PROPERTIES OF ATHLETES WITH AN ULTRASONIC DETECTION SCHEME
M. Zakir Hossain, Wolfgang Grill

ID90
TRICEPS SURAE MUSCULOTENDINOUS STIFFNESS: RELATIVE DIFFERENCES BETWEEN SOCCER AND NON-SOCCER PLAYERS
Aurélio Faria, Ronaldo Gabriel, João Abrantes, Paola Wood, Helena Moreira

ID477
INFLUENCE OF ATHLETIC TRAINING ON VERTICAL STIFFNESS ATTENUATION
Emma L. Millett, Raul Landeo

ID461 (NIA)
JOINT MOTION AND STIFFNESS REGULATION OF THE KNEE JOINT IN CHOICE REACTION SIDESTEP CUT TASKS
Kenji Kimura, Shinji Sakurai

30.06.2011 10:00
Room 1
Oral Session 12 (Biomechanics of Individual Sports – Track and Field)
Chairperson:

ID103
BIOMECHANICAL ANALYSIS AND FUNCTIONAL ASSESSMENT OF DAYRON ROBLES, WORLD RECORD HOLDER AND OLYMPIC CHAMPION IN 110 M HURDLES
José Luis López, Josep Maria Padullés, Helena Josefin Olsson

ID262
CHANGES IN STEP CHARACTERISTICS BETWEEN THE MAXIMUM VELOCITY AND
DECELERATION PHASES OF THE 100 METRE SPRINT RUN
Ian N. Bezodis, Gareth Irwin, Gregor Kuntze, David G. Kerwin

ID57
INTRA-LIMB KINEMATIC STRATEGIES OF MAXIMUM VELOCITY PHASE SPRINT RUNNING PERFORMANCES
Marianne Gittoes, Ian Bezodis, Cassie Wilson

ID465
TARGET VALUE FOR THE MAXIMUM RUN-UP SPEED OF THE LONG JUMP BASED ON THE PERFORMANCE LEVEL
Hiroyuki Koyama, Yuya Muraki, Michiyoshi Ae

ID 590
EFFECT OF AGE ON HIGH JUMP TAKEOFF BIOMECHANICS
Javier Bermejo, José Manuel Palao, José L. L. Elvira

ID 160 (NIA)
LOWER-LIMB BIOMECHANICAL ASYMMETRY IN MAXIMAL VELOCITY SPRINT RUNNING
Timothy Exell, David Kerwin, Gareth Irwin, Marianne Gittoes

30.06.2011 10:00
Room 9
Oral Session 13 (Biomechanical Instrumentation & Evaluation Methods)
Chairperson:

ID530
COMPARISON OF WAVE DRAG FOR BOTH THE MALE AND FEMALE FORM
David Pease, Ross Vennell

ID412
FRONTCRAWL PROPULSIVE PHASE DETECTION USING INERTIAL SENSORS
Farzin Dadashi, Florent Crettenand, Gregoire Millet, Ludovic Seifert, John Komar, Kamiar Aminian

ID503
ESTIMATION OF ACTIVE DRAG USING AN ASSISTED TOW OF HIGHER THAN MAX SWIM VELOCITY THAT ALLOWS FLUCTUATING VELOCITY & VARYING TOW FORCE
Bruce Mason, Gina Sacilotto, Tracey Menzies

ID564 (NIA)
UNDERWATER COMPARISON OF WAND AND 2D PLANE NONLINEAR CAMERA CALIBRATION METHODS
Amanda P. Silvatti, Thiago Telles, Fábio A. S. Dias, Pietro Cerveri, Ricardo M. L. Barros
FORCE AND CENTER OF PRESSURE EVALUATION WITH AN INSTRUMENTED PLATFORM FOR SWIMMING PERFORMANCE OPTIMIZATION
Luis Mourão, Leandro Machado, Ricardo Fernandes, J. Paulo Vilas-Boas, Mário Vaz

RELIABILITY OF A NEW METHOD TO ANALYSE AND TO QUANTIFY ATHLETES’ DISPLACEMENT
João Serrano, Orlando Fernandes

30.06.2011 15:30
Auditorium
Oral Session 14 (Biomechanics of Gait and Running)
Chairperson:

ANGULAR KINEMATICS AND JOINT MOMENTS ANALYSIS IN LOWER LIMB AND PELVIS DURING GAIT IN SAGITTAL PLANE IN PREGNANT WOMEN
Liliana Aguiar, Rita Santos-Rocha, Marco Branco, Filomena Vieira, Filipa João, Filomena Carnide, António P. Veloso

LOCOMOTOR RESPIRATORY COUPLING STRATEGIES DURING WALKING
Joseph O’Halloran, Joseph Hamill, William McDermott, Jebb Remelius, Richard EA van Emmerik

USING INDUCED ACCELERATIONS TO ANALYZE GAIT IN THE ELDERLY
Vera Moniz-Pereira, Silvia Cabral, Filomena Carnide, António P. Veloso

THE INFLUENCE OF DIFFERENT SPEEDS ON BACKPACKER’S GAIT KINETICS
Marcelo Castro, Sofia Abreu, Helena Sousa, Cristina Figueiredo, Leandro Machado, Rubim Santos, João Paulo Vilas-Boas

INVESTIGATION OF THE MOMENT OF INERTIA AND THE BIOENGINEERING INTERNAL FORCES ACTING ON THE KNEE DURING HIKING
Jared Jun Yong Toh, Liao Kin, Wei Xie
A COMPARISON OF THE BILATERAL, DYNAMIC Q-ANGLE IN FEMALES
Andrea Melicharek, Marilyn K. Miller, Joseph Hazzard

30.06.2011 15:30
Room 1
Oral Session 15 (Miscellaneous)
Chairperson:

ID290
VERTICAL BREAST EXTENSION DURING TREADMILL RUNNING
Joanna Scurr, Jennifer White, Alexandra Milligan, Debbie Risius, Wendy Hedger

ID392
EFFECT OF LOWER BODY COMPRESSION GARMENT IN RUNNING MECHANICS
Xantal Borràs, Xavier Balius, Franchek Drobnic

ID61 (NIA)
THE RELATIONSHIP BETWEEN SHOULDER COUNTER-ROTATION AND LUMBAR MECHANICS DURING FAST BOWLING
Helen Crewe, Amity Campbell, Bruce Elliott, Jacqueline Alderson

ID597 (NIA)
SPORTS-RELATED ORO-FACIAL INJURIES: WHICH KIND OF MOUTHGUARD WILL BE THE MOST SUITABLE TO PLAY SAFE?
M. Clemente, A. Silva, A. Sousa, J. Gabriel, J. Pinho

ID146
THE COUPLING BETWEEN PRONATION AND TIBIAL INTERNAL ROTATION IS DIFFERENT IN RUNNER’S WITH ANTERIOR KNEE PAIN
Pedro Rodrigues, Trampas TenBroek, Richard van Emmerick, Joseph Hamill

ID25
ANKLE LIGAMENT STRAIN DURING SUPINATION SPRAIN INJURY – A COMPUTATIONAL BIOMECHANICS STUDY
Daniel Tik-Pui Fong, Feng Wei, Youlian Hong, Tron Krosshaug, Roger C. Haut, Kai-Ming Chan

30.06.2011 15:30
Room 9
Applied Session: Swimming Biophysics
Chairperson:
30.06.2011 17:30
Auditorium
Oral Session 16 (Biomechanics of Team Sports)
Chairperson:

ID 539
INTRAINDIVUAL VARIABILITY OF THE MOVEMENT PATTERNS IN EXPERT HANDBALL THROWERS
Javier Rojas, Marcos Gutiérrez, Manuel Ortega, Juan Pârraga, José Campos

ID 554
EFFECT OF TRAINING ON THE KINEMATICS AND PERFORMANCE IN OVERARM THROWING IN EXPERIENCED FEMALE HANDBALL PLAYERS
Roland van den Tillaar, Mario Marques

ID 434
LOADS ACTING ON THE LOCOMOTIVE SYSTEM OF PROFESSIONAL FEMALE VOLLEYBALL PLAYERS DURING THE LANDING PHASE OF SPIKES AND BLOCKS
J. Kabacinski, L.B. Dworak, K. Kmiecik, M. Murawa, J. Maczynski

ID 588
HUMERAL RETROVERSION IN OVERHEAD THROWING ATHLETES
Andrea Ribeiro, Augusto Gil Pascoal, Pedro Miguel Ribeiro

ID 557
BETTER POSTURAL CONTROL DURING ACCURATE SHOOTING IN ELITE FEMALE BASKETBALL PLAYERS
Yen-Ting Wang, Tsung-Li Tseng, Lin Chi, Chen-fu Huang, Pao-Cheng Lin, Alex J.Y. Lee

ID 152
REAL-TIME SQUATTING SYMMETRY TRAINING USING NINTENDO Wii BALANCE BOARDS
Rian McGough, Kade Paterson, Elizabeth Bradshaw, Adam Bryant, Ross Clark

30.06.2011 17:30
Room 1
Oral Session 17 (Biomechanics of Individual and Adapted Sports)
Chairperson:

ID 439
SPORT INFLUENCE ON FOOTPRINTS OF COLOMBIAN’S POWERLIFTERS, SWIMMERS AND FIELD ATHLETES
Gómez Lessby, Franco Juan Manuel, Nathy Jhon Jairo, Valencia Edwin, Vargas Diana

ID 585
IS THE LOCAL MINIMUM IN THE FORCE TIME HISTORY IN COUNTER-MOVEMENT JUMPS
RELATED TO JUMP PERFORMANCE?
Gunther Kurz, Christian Stockinger, Anne Richter, Wolfgang Potthast

ID391
KINETICS OF SPRINT CYCLING WITH A BELOW-KNEE PROSTHETIC LIMB: A CASE STUDY OF A PARALYMPIC CHAMPION
Paul Barratt

ID556
SHOT PUT KINEMATICS OF WORLD CLASS ATHLETES WITH AN INTELLECTUAL DISABILITY
Steffen Willwacher, Wolfgang Potthast, Ralf Müller, Gert-Peter Brüggemann

ID241 (NIA)
CHEST WALL KINEMATICS OF ATHLETES WITH TETRAPLEGIA
Juliana Viana Paris, Karine Jacon Sarro, Marlene Moreno, Amanda Piaia Silvatti, Ricardo M. L. Barros

ID522 (NIA)
THE MOMENT OF THE HIP AND KNEE IN OBESE AND NON-OBESE INDIVIDUALS DURING STAIR ASCENT AND DESCENT
Nok-Hin Law, Jing Xian Li, Nok-Yeung Law

30.06.2011 17:30
Room 9
Oral Session 18 (Miscellaneous)
Chairperson:

ID459
INTER-DAY RELIABILITY LEG, KNEE AND ANKLE STIFFNESS MEASURES DURING HOPPING
Corey Joseph, Elizabeth Bradshaw, Ross Clark

ID553
ISOKINETIC LEG STRENGTH CHANGES IN YOUNG FEMALE SOUTH AFRICAN RECRUITS FOLLOWING BASIC MILITARY TRAINING
Paola Wood, Pieter Krüger, Aurélio Faria

ID402
FIRST SECTION OF THE COURSE PERFORMANCE AS A CRITICAL ASPECT IN SKICROSS COMPETITION: 2010 OLYMPIC GAMES & WORLD CUP ANALYSIS
Javier Argüelles, Blanca De la Fuente, Jacek Tarnas, Rocio Domínguez-Castells

ID519 (NIA)
ESTIMATION OF GROUND REACTION FORCES DURING WALKING
Isamu Nishida, D. Gordon E. Robertson, Masato Maeda, Tsuneo Kawano, Keiichi Shirase
ESTIMATE OF TEMPORAL PARAMETERS DURING SPRINT RUNNING BY TRUNK INERTIAL SENSING: IN FIELD VALIDATION
E. Bergamini, P. Picerno, V. Camomilla, H. Pillet, A. Cappozzo

EFFECTS OF PILATES TRAINING ON MUSCULAR STRENGTH AND BALANCE IN BALLET DANCERS
Tânia Amorim, Filipa Sousa, Leandro Machado, José Augusto Santos
01.07.2011 10:00
Auditorium
Oral Session 19 (Teaching Biomechanics and Development Biomechanics)
Chairperson:

ID462
FOURTH NORTH AMERICAN SURVEY OF UNDERGRADUATE BIOMECHANICS INSTRUCTION IN KINESIOLOGY/EXERCISE SCIENCE
Luke R. Garceau, Duane V. Knudson, William P. Ebben

ID471
APPLICATION OF BIOMECHANICAL CONCEPTS IN PROFESSIONAL LIFE OF PHYSICAL EDUCATION TEACHER
Ana Paula X. Ladeira, Sônia C. Corrêa, Igor R. Dias, Elisabete dos S. Freire

ID463
DEVELOPMENT OF THE OVERARM THROWING MOTION FOR JAPANESE ELEMENTARY SCHOOL GIRLS
Yasuto Kobayashi, Michiyoshi Ae, Akiyo Miyazaki, Norihisa Fujii

ID416
AGE BASED MECHANICS OF MAXIMAL JUMP PERFORMANCE IN ENDURANCE ATHLETES
Ceri Diss, Marianne Gittoes, Richard Tong, David Kerwin

ID442
WHEN IS THE BACKWARD WALK STARTING AGE FOR CHILDREN?
Kohtaroh Hagio, Hiroh Yamanoto

ID427
INFLUENCE OF THE RANGE OF MOTION ON JUMPING HEIGHT IN CHILDHOOD
Pablo Floria, Andrew J. Harrison

01.07.2011 10:00
Room 1
Oral Session 20 (Miscellaneous)
Chairperson:

ID 390
CENTRE OF MASS MOTION DURING THE PUNT KICK
Kevin Ball

ID586
KINEMATIC AND COORDINATION VARIABILITY OF THE THROWING ARM DURING THE WATER POLO SHOT
Paul Taylor, Raul Landeo, Jennifer Coogan
ID573
THE INFLUENCE OF EXPERIENCE ON KINETIC CHARACTERISTICS OF THE LOOPED LONGSWING
Genevieve Williams, Gareth Irwin, David G. Kerwin, Karl M. Newell

ID447
THE CHARTERISTICS OF LOWER LIMB MOMENTS IN BASEBALL PITCHING
Chen-Fu Huang, Chun-Lung Lin

ID446
EXAMINATION OF ACUTE WHOLE-BODY VIBRATION ON MAXIMAL VERTICAL JUMP HEIGHT IN COLLEGIATE VOLLEYBALL ATHLETES
Sarah Hilgers, Bryan Christensen

ID516
EFFECTS OF WHOLE BODY VIBRATION TRAINING ON KNEE EXTENSOR MUSCLE STRENGTH AND RATE OF FORCE DEVELOPMENT
Yu-Ju Kuo, Yu-Ming Lee, Kuo-Hui Cheng, Ching-Feng Cheng, Heng-Ju Lee

01.07.2011 10:00
Room 9
Oral Session 21 (Biomechanics of Individual Sports)
Chairperson:

ID424
KINEMATICAL ANALYSIS OF FIVE DIFFERENT KICKS IN TAEKWONDO
Coral Falco, Isaac Estevan, Manfred Vieten

ID448
MECHANICAL ANALYSIS OF THE ROUNDHOUSE KICK ACCORDING TO THE STANCE POSITION: A PILOT STUDY
Isaac Estevan, Coral Falco, Daniel Jandacka

ID524
KINEMATICAL ANALYSIS OF BANDAL AND DOLYO TAEKWONDO KICKS OF A HIGH LEVEL FEMALE ATHLETE
Jerusa P.R. Lara, Afonsa Janaina da Silva, Milton S. Misuta, Amanda P. Silvatti, Luciano A. Mercadante, Ricardo M. L. Barros

ID535
THE IMPACT OF DETRAINING ON PERFORMANCE VARIABLES AND SOME OF THE BIOMECHANICAL VARIABLES IN TAEKWONDO
Hashem A. Kilani, Waleed S. Nasser

ID559
KINEMATIC ANALYSIS OF THE SUPPORTING LEG BETWEEN DIFFERENT WEIGHT DIVISIONS IN
THE ROUNDHOUSE KICK OF TAEKWONDO
Ying-Xun Wang, Shih-Yu Kuo, Ling-Hua Wang, Kuangyou B. Cheng

HOW TOUGH IS IT TO REPEATEDLY HIT THE BALL IN GOLF?
Gongbing Shan, Xiang Zhang