



PLATINUM SPONSOR

SILVER SPONSOR



Draft Schedule

June 25 2009

Dear All

Please find the final draft schedule below.

All changes that were requested via e-mail by the 24th June have been made and are included in this new version.

The only major change to the structure was to switch Oral Sessions 01 & 22 to accommodate the Applied Session in Rowing; an exciting addition. If you were scheduled to present at either of these sessions please note the change in your ISBS paper number.

There have also been some minor edits and to avoid confusion we suggest all authors double check their ISBS paper number in preparation for the conference.

The deadline for changes has now passed and no further requests can be accommodated; there may be still be changes to the programme which arise due to circumstances beyond our control – these will be reflected in the final conference schedule which will be available approximately 2 weeks before the conference on isbs2009.com.

Remember that the paper number indicated on the list at the end of this document can be used to locate your paper(s) within the schedule; the list is sorted alphabetically by lead author's first name and is searchable within Adobe Acrobat Reader.

Looking forward to meeting you all in Limerick in August.

Ross Anderson PhD

On behalf of the ISBS2009 Committee

Monday 17 August 2009	
0900 – 1500	Exhibitor Access to Exhibition Area
1400 – 1500	ISBS Board Pre-Conference Meeting
1500 – 1745	Conference Registration
1800 – 1830	ISBS 2009 Opening Ceremony
1830 – 1930	Opening Keynote Lecture – David Kerwin <i>BIOMECHANICS, TECHNOLOGY AND COACHING</i> Session Chair – Fred Yeadon
1930 – 2130	ISBS2009 Opening Reception – Foundation Concert Hall

Tuesday 18 August 2009			
0800 – 0830	Poster Session PS1 – Preparation		
0830 – 0930	<p align="center">Keynote Lecture – Clare Milner GAIT BIOMECHANICS AND TIBIAL STRESS FRACTURE IN RUNNERS <i>Session Chair – Joseph Hamill</i></p>		
0930 – 1045	<p>Oral Session S01 – Rowing [Session Chair - Nick Caplan]</p> <ul style="list-style-type: none"> •THE EFFECT OF VARIABLE NUMBERS OF REPETITIONS ON PEAK TORQUE IN ROWER AND NON-ATHLETE FEMALES WHEN USING ISOKINETIC TESTING - SARAH MOODY, DEANNA MALIKIE AND BARBARA WARREN •MECHANICAL LOADING OF THE LUMBAR SPINE OF ELITE ROWERS WHILE ROWING FIXED AND SLIDING ERGOMETERS - RICHARD SMITH, MICHAEL DICKSON AND FLOREN COLLOUD •THE EFFECTS OF HORIZONTAL AND VERTICAL FORCES ON SINGLE SCULL BOAT ORIENTATION WHILE ROWING - PETER SINCLAIR, ANDREW GREENE AND RICHARD SMITH •AMBULATORY 3D MOVEMENT ANALYSIS IN ROWING - CHRIS BATEN, MARIEKE TER VOERT, REMON VAN DER AA, LLOYD VAN HOUT AND RUBEN WASSINK •VALIDITY OF THE POWERLINE BOAT INSTRUMENTATION SYSTEM - JENNIE COKER, PATRIA HUME AND VOLKER NOLTE 	<p>Oral Session S02 – Golf [Session Chair - Young-Hoo Kwon]</p> <ul style="list-style-type: none"> •A COMPARISON OF ACCURACY AND STROKE CHARACTERISTICS BETWEEN TWO PUTTING GRIP TECHNIQUES - YONGHYUN PARK, DAVID O'SULLIVAN, INSIK SHIN, CHULSOO CHUNG, GYESAN LEE AND HAKSOO SHIN •ANALYSIS OF THE JOINT KINEMATICS OF THE 5 IRON GOLF SWING - AOIFE HEALY, KIERAN MORAN, JANE DICKSON, CILLIAN HURLEY, MADH HAAHR AND NOEL E. O'CONNOR •ANALYSIS OF ELITE GOLFERS' KINEMATIC SEQUENCE IN FULL-SWING AND PARTIAL SWING SHOTS - FREDRIK TINMARK, JOHN HELLSTRÖM, KJARTAN HALVORSEN AND ALF THORSTENSSON •A COMPARISON OF LAUNCH ANGLES AND VELOCITY IN A GOLF DRIVE USING A 3D ANALYSIS AND A COMMERCIAL LAUNCH MONITOR - MATTHEW SWEENEY, JACQUELINE ALDERSON, PETER MILLS AND BRUCE ELLIOTT •A STUDY ON THE RELATIONSHIP BETWEEN EYE MOVEMENT AND GRIP FORCE DURING GOLF PUTTING - HYUNG-SIK KIM, JIN-SEUNG CHOI, GYE-RAE TACK, YOUNG-TAE LIM AND JEONG-HAN YI 	
1045 – 1100	Poster Session PS1 & Refreshments		
1100 – 1130			
1130 – 1300	<p>Oral Session S03 – Swimming [Session Chair - Antonio Veloso]</p> <ul style="list-style-type: none"> •MARKERLESS ANALYSIS OF SWIMMERS' MOTION: A PILOT STUDY - ELENA CESERACCIU, ZIMI SAWACHA, SILVIA FANTOZZI, GIULIA DONÀ, STEFANO CORAZZA, GIORGIO GATTA AND CLAUDIO COBELLI •A COMPARISON BETWEEN THE VALUES OBTAINED FROM ACTIVE DRAG ANALYSIS COMPARED TO FORCES PRODUCED IN TETHERED SWIMMING - BRUCE MASON, DANIELLE FORMOSA AND SHANNON ROLLASON •MOTOR CONTROL PATTERNS IN ELITE SWIMMERS' FREESTYLE STROKE DURING DRYLAND SWIMMING - TRACY SPIGELMAN, TOM CUNNINGHAM, SCOTT MAIR, ROBERT SHAPIRO, TIM UHL AND DAVID MULLINEAUX •STROKE PARAMETERS AND ARM COORDINATION IN COMPETITIVE UNILATERAL ARM AMPUTEE FRONT CRAWL SWIMMERS - CONOR OSBOROUGH, CARL PAYTON AND DANIEL DALY •MEASURING PROPULSIVE FORCE WITHIN THE DIFFERENT PHASES OF BACKSTROKE SWIMMING - DANIELLE FORMOSA, BRUCE MASON AND BRENDAN BURKETT •EFFECTS OF HANDLE AND BLOCK CONFIGURATION ON SWIM START PERFORMANCE - PETER VINT, SCOTT MCLEAN, RICHARD HINRICH, SCOTT RIEWALD AND ROBYN MASON 	<p>Oral Session S04 – Modelling [Session Chair - Cassie Wilson]</p> <ul style="list-style-type: none"> •AN ALGORITHM TO COMPUTE ABSOLUTE 3D KINEMATICS FROM A MOVING MOTION ANALYSIS SYSTEM - FLOREN COLLOUD, MICKAËL BEGON, VINCENT FOHANNON AND TONY MONNET •DEVELOPMENT, EVALUATION AND APPLICATION OF A SIMULATION MODEL OF A SPRINTER DURING THE FIRST STANCE PHASE - NEIL BEZODIS, AKI SALO AND GRANT TREWARTHA •OAR BLADE FORCE COEFFICIENTS AND A MATHEMATICAL MODEL OF ROWING - ANNA COPPEL, TREVOR GARDNER, NICHOLAS CAPLAN AND DAVID HARGREAVES •TOWARDS UNDERSTANDING HUMAN BALANCE - SIMULATING STICK BALANCING - MANFRED VIETEN •APPLICATION OF SIMULATION TO FREESTYLE AERIAL SKIING - MAURICE YEADON •COMPUTER SIMULATION OF THE OPTIMAL VAULTING MOTION DURING THE HORSE (TABLE) CONTACT PHASE - HUI-CHIEH CHENG, CHIH-YING YU AND KUANGYOU B. CHENG 	<p align="center"><i>Applied Session</i> Coaching Biomechanics <i>Session Chair – Duane Knudson</i></p>
1300 – 1330	Lunch		
1330 – 1400	Poster Session PS1 – Removal of Posters		
1400 – 1450	Poster Session PS2 – Preparation		
1400 – 1450	<p align="center">Geoffrey Dyson Keynote Lecture – Albert Gollhofer FUNCTIONAL ROLE OF PROPRIOCEPTIVE FEEDBACK IN BALANCE AND IN REACTIVE MOVEMENT <i>Session Chair – Richard Smith</i></p>		
1500 – 1615	<p>Oral Session S05 – Jumping I [Session Chair - David Kerwin]</p> <ul style="list-style-type: none"> •THE JOINT KINETICS OF THE LOWER EXTREMITY ASSOCIATED WITH DROP JUMP HEIGHT INCREMENTS - HSIEN-TE PENG, PO-HAN CHU, CHI LIANG, NING LEE, PEI-YU LEE, TING-CHIEH TSAI AND TAI-FEN SONG •DOES A CONCENTRIC ONLY SQUAT ILLICIT SIMILAR POTENTIATION OF SQUAT JUMP PERFORMANCE AS A BACK SQUAT? - DARRAGH GRAHAM, ANDREW HARRISON AND EAMONN FLANAGAN •ANKLE AND KNEE COORDINATION FOR SINGLE-LEGGED VERTICAL JUMPING COMPARED TO RUNNING - TORSTEN BRAUNER, THORSTEN STERZING AND THOMAS L. MILANI •COORDINATION IN TRACK & FIELD SPRINTERS WHILE PERFORMING THE COUNTERMOVEMENT JUMP - EZIO PREATONI, ELENA DEVODIER, GIUSEPPE ANDREONI AND RENATO RODANO •MECHANICS OF AMPUTEE JUMPING – LOADING - MARLENE SCHOEMAN, CERI DISS AND SIOBHAN STRIKE 	<p>Oral Session S06 – Indoor Sports [Session Chair - Karen Roemer]</p> <ul style="list-style-type: none"> •A BIOMECHANICAL COMPARISON OF JUMPING TECHNIQUES IN THE VOLLEYBALL BLOCK AND SPIKE - ROBERTO LOBIETTI, SILVIA FANTOZZI, RITA STAGNI AND SIMON G.S. COLEMAN •ELITE OUTSIDE HITTERS IN VOLLEYBALL DO NOT MEET THEIR INDIVIDUAL POSSIBLE MAXIMUM IMPACT HEIGHT IN HIGH SPIKE JUMPS - CLAAS KUHLMANN, KAREN ROEMER AND THOMAS MILANI •BIOMECHANICAL ASPECTS OF BADMINTON SHOE DURING A LUNGE - SEUNGBUM PARK, DARREN STEFANYSHYN, JAY WOROBETS, SANG-KYOON PARK, JUNGHOO LEE, KYUNGDEUK LEE AND JONGJIN PARK •A COMPARISON OF COMPENSATION FOR RELEASE TIMING AND MAXIMUM HAND SPEED IN RECREATIONAL AND COMPETITIVE DARTS PLAYERS - DAVE BURKE AND FRED YEADON •INVERSE KINEMATICS IN THE SUCCESS OF THE THROW IN BASKETBALL GAME - EMIL BUDESCU, EUGEN MERTICARU AND RADU MIHAI IACOB 	<p align="center"><i>Applied Session</i> Rowing Biomechanics <i>Session Chair – Richard Smith</i></p>
1615 – 1700	Poster Session PS2 & Refreshments		
1700 – 1800	<p>Oral Session S07 – Track & Field I [Session Chair - Ian Bezodis]</p> <ul style="list-style-type: none"> •ANGULAR KINEMATICS IN ELITE RACE WALKING PERFORMANCE - BRIAN HANLEY, ATHANASSIOS BISSAS AND ANDI DRAKE •3D KINEMATICAL ANALYSIS OF BRAZILIAN FEMALE POLE VAULTERS - TIAGO RUSSOMANNO, NATHALIA ROSSETTO AND RICARDO BARROS •HIGH SPEED ULTRASONIC DETECTION SCHEME FOR SPORTS PERFORMANCE MONITORING - MUHAMMAD ZAKIR HOSSAIN •ELECTROMYOGRAPHIC ANALYSIS ON LOWER EXTREMITY MUSCLES DURING OVERGROUND AND TREADMILL RUNNING - MANDY MAN LING CHUNG, KAM MING MOK, JUSTIN WAI YUK LEE AND YOULIAN HONG 	<p>Oral Session S08 – Equipment [Session Chair - Lothar Thorwesten]</p> <ul style="list-style-type: none"> •WEDGED FOOTWEAR PERTURBATIONS AFFECT LOWER EXTREMITY COORDINATION DYNAMICS - ELIZABETH RUSSELL, ALLISON GRUBER, KRISTIAN O'CONNOR, RICHARD VAN EMMERIK AND JOSEPH HAMILL •IMPACT OF WII-FIT TRAINING ON NEURO-MUSCULAR CONTROL - DANIEL BASSETT, ERIKA DE CANONICO, ANTONIO ARCHILLETTI AND GIULIANO CERULLI •THE EFFECTS OF IMPACT AVOIDANCE TECHNIQUES ON HEAD INJURY RISK - PHILIPPE ROUSSEAU AND BLAINE HOSHIZAKI •NOVEL ENERGY ABSORBING MATERIALS WITH APPLICATIONS IN HELMETED HEAD PROTECTION - LIANG CUI, STEPHEN KIERNAN AND MICHAEL GILCHRIST 	
1800 – 1830	Poster Session PS2 – Removal of Posters		
Evening	Student Evening		

Wednesday 19 August 2009			
0800 – 0830		Poster Session PS3 – Preparation	
0830 – 0930		Keynote Lecture – Young-Hoo Kwon <i>Title TBC</i> <i>Session Chair - Manfred Vieten</i>	
0930 – 1045	<p>Oral Session S09 – Methods [Session Chair - David Mullineaux]</p> <ul style="list-style-type: none"> •TRUNK POSTURE AND STATO-DYNAMICAL SPINE ANALYSIS - COMPARING ULTRASOUND BASED VS. OPTICAL BASED MEASUREMENT SYSTEM - LOTHAR THORWESTEN, DANIEL SCHNIEDERS, MARKUS SCHILGEN AND KLAUS VÖLKER •SPATIO-TEMPORAL PARAMETERS AND INSTANTANEOUS VELOCITY OF SPRINT RUNNING USING A WEARABLE INERTIAL SENSING UNIT - ELENA BERGAMINI, PIETRO PICERNO, MICHELE GRASSI, VALENTINA CAMOMILLA AND AURELIO CAPPOZZO •VALIDATION OF MODEL-BASED IMAGE-MATCHING TECHNIQUE WITH BONE-PIN MARKER BASED MOTION ANALYSIS ON ANKLE KINEMATICS: A CADAVER STUDY - KAM-MING MOK, DANIEL TIK-PUI FONG, TRON KROSSHAUG AND KAI-MING CHAN •CUSTOM-BUILT WIRELESS PRESSURE SENSING INSOLES FOR DETERMINING CONTACT-TIMES IN 60M MAXIMAL SPRINT RUNNING - GREGOR KUNTZE, MARCELO PIAS, IAN BEZODIS, DAVID KERWIN, GEORGE COULOURIS AND GARETH IRWIN •EFFECT OF SPORT ACTIVITY ON COUNTER MOVEMENT JUMP PARAMETERS IN JUVENILE STUDENTS - ANNE RICHTER, DIANA LANG, GERDA STRUTZENBERGER AND HERMANN SCHWAMEDER 	<p>Oral Session S10 – Gymnastics [Session Chair - Elizabeth Bradshaw]</p> <ul style="list-style-type: none"> •A SIMULATION STUDY OF THE INTERNAL TWISTING TORQUE IN THE FOJETTÉ TURN - AKIKO IMURA AND M.R. YEADON •BIOMECHANICAL ANALYSIS OF GYMNASTIC BACK HANDSPRING - CHENFU HUANG AND GIN-SHU HSU •CALCULATION FORCES FROM BAR MOVEMENT ON PARALLEL BARS IN GYMNASTICS - FALK NAUNDORF, KLAUS KNOLL AND STEFAN BREHMER •OPTIMISATION OF THE FELGE TO HANDSTAND ON PARALLEL BARS - MICHAEL HILEY, ROGER WANGLER AND GHEORGHE PREDESCU •RELIABILITY OF A GYMNASTICS VAULTING FEEDBACK SYSTEM - ELIZABETH BRADSHAW, PATRIA HUME, MARK CALTON AND BRAD AISBETT 	
1045 – 1100	Poster Session PS3 & Refreshments		
1100 – 1130			
1130 – 1300	<p>Oral Session S11 – Injury I [Session Chair - Clare Milner]</p> <ul style="list-style-type: none"> •EFFECT OF LUMBAR LORDOTIC ANGLE ON LUMBOSACRAL JOINT DURING ISOKINETIC EXERCISE - TAE SOO BAE, JONG KWON KIM, SHIN KI KIM, JEI CHEONG RYU AND MU SEONG MUN •ANTICIPATION EFFECT ON KNEE JOINT STABILITY DURING PLANNED AND UN-PLANNED MOVEMENT TESTS IN LABORATORY - MAK-HAM LAM, PIK-KWAN LAI, DANIEL TIK-PUI FONG AND KAI-MING CHAN •AN ANKLE SPRAIN RECOGNITION SYSTEM FOR IDENTIFYING ANKLE SPRAIN MOTION FROM OTHER NORMAL MOTIOIN USING MOTION SENSOR - YUE-YAN CHAN, DANIEL TIK-PUI FONG AND KAI-MING CHAN •THE EFFECTS OF SPORTS INJURY PREVENTION TRAINING ON THE RISK FACTORS OF ANTERIOR CRUCIATE LIGAMENT INJURY IN FEMALE ATHLETES - BEEOH LIM, YONGSEUK LEE AND YOUNGHOON KWON •THE EFFECT OF WARM-UP, STATIC STRETCHING AND DYNAMIC STRETCHING ON HAMSTRING FLEXIBILITY IN PREVIOUSLY INJURED SUBJECTS - KIERAN O'SULLIVAN, ELAINE MURRAY AND DAVID SAINSBURY 	<p>Oral Session S12 – Field Sports [Session Chair - Simon Coleman]</p> <ul style="list-style-type: none"> •VELOCITY AND ACCURACY AS PERFORMANCE CRITERIA FOR THREE DIFFERENT SOCCER KICKING TECHNIQUES - THORSTEN STERZING, JUSTIN S. LANGE, TINO WÄCHTLER, CLEMENS MÜLLER AND THOMAS L. MILANI •FIELD TESTING TO PREDICT PERFORMANCE IN RUGBY UNION PLAYERS - BRIAN GREEN, CATHERINE BLAKE AND BRIAN CAULFIELD •THE PLANARITY OF THE STICK AND ARM MOTION IN THE FIELD HOCKEY HIT - ALEXANDER WILLMOTT AND JESUS DAPENA •THE INFLUENCE OF STANCE WIDTH ON MOVEMENT TIME IN FIELD HOCKEY GOALKEEPING - KEVIN BALL AND GEORGIA GIBLIN •THE EFFECTS OF LOCALISED QUADRICEPS FATIGUE ON BOWLING PERFORMANCE IN FEMALE COUNTY CRICKETERS - ALAN DE ASHA, MARK ROBINSON, AMITY CAMPBELL AND MARK LAKE •THE EFFECT OF INDIVIDUALISED COACHING INTERVENTIONS ON ELITE YOUNG FAST BOWLERS' TECHNIQUE - PETER WORTHINGTON, CRAIG RANSON, MARK KING, ANGUS BURNETT AND KEVIN SHINE 	<p><i>Applied Session</i> <i>Strength & Conditioning</i> <i>Session Chair – Randall L. Jensen</i></p>
1300 – 1330	Lunch	Poster Session PS3 – Removal of Posters	
1330 – 1400		Poster Session PS4 – Preparation	
1400 – 1450	<p>David Waddell Memorial Keynote Lecture – Bruce Elliott <i>THEORY INTO PRACTICE: THE KEY TO ACCEPTANCE OF SPORT BIOMECHANICS</i> <i>Session Chair - Duane Knudson</i></p>		
1500 – 1615	<p>Oral Session S13 – Strength & Conditioning [Session Chair - Kevin Ball]</p> <ul style="list-style-type: none"> •BARBELL ACCELERATION ANALYSIS ON VARIOUS INTENSITIES OF WEIGHTLIFTING - KIMITAKE SATO, PAUL FLESCHLER AND WILLIAM SANDS •COMPARISON OF ANGLES AND THE CORRESPONDING MOMENTS IN KNEE AND HIP DURING RESTRICTED AND UNRESTRICTED SQUATS - SILVIO LORENZETTI, MIRIAM STOOP, THOMAS UKELO, HANS GERBER, ALEX STACOFF AND EDGAR TÛSSI •THE EFFECTS OF DYNAMIC AND STATIC STRETCHING METHODS ON SPEED, AGILITY AND POWER - DANIEL BISHOP •RELATIONSHIP BETWEEN MUSCULAR OUTPUTS AND THE HORIZONTAL PERTURBATION IN THE EARLY PHASE OF BENCH PRESS MOVEMENT UNDER STABLE AND UNSTABLE CONDITIONS - SENTARO KOSHIDA, KOJI MIYASHITA, KAZUNORI IWAI, AYA KAGIMORI AND YUKIO URABE •ABDOMINAL PRESSURIZATION AND MUSCLE ACTIVATION DURING SUPINE TRUNK CURLS - ALF THORSTENSSON, ANNA BJERKEFORS, MARIA EKBLUM AND FREDRIK TINMARK 	<p>Oral Session S14 – Other Sports I [Session Chair - John Ostarello]</p> <ul style="list-style-type: none"> •ACUTE EFFECTS OF DENTAL APPLIANCES ON UPPER AND LOWER ISOKINETIC MUSCLE FUNCTION - NATHAN DAU, DONALD SHERMAN, RICHARD BOLANDER, CYNTHIA BIR AND HERMANN ENGELS •ACCUMULATED FATIGUE AFFECTS RUNNING BIOMECHANICS DEPENDING ON THE PERFORMANCE LEVEL DURING A TRIATHLON COMPETITION - ANTONIO CALA AND ENRIQUE NAVARRO •CAN ELITE TENNIS PLAYERS JUDGE THEIR SERVICE SPEED? - KIERAN MORAN, COLM MURPHY, CAHILL GARRY AND BRENDAN MARSHALL •OPTIMISATION OF ENERGY ABSORBING LINER FOR EQUESTRIAN HELMETS – LIANG CUI, MANUEL FORERO RUEDA AND MICHAEL GILCHRIST •THE EFFECT OF SELECTED KINEMATICS ON BALL SPEED AND GROUND REACTION FORCES IN FAST BOWLING - PETER WORTHINGTON, MARK KING AND CRAIG RANSON 	
1615 – 1700	Poster Session PS4 & Refreshments		
1700 – 1800	<p>Oral Session S15 – Winter Sports [Session Chair - Hermann Schwameder]</p> <ul style="list-style-type: none"> •PERCEIVED DIFFERENCES IN SKATING CHARACTERISTICS RESULTING FROM THREE CROSS SECTIONAL SKATE BLADE PROFILES - MARSHALL KENDALL, SCOTT FOREMAN, PHILIPPE ROUSSEAU AND BLAINE HOSHIZAKI •ANALYSIS OF COMBINED EMG AND JOINT ANGULAR VELOCITY FOR THE EVALUATION OF ECCENTRIC/CONCENTRIC CONTRACTION IN SKIING - NICOLA PETRONE AND GIUSEPPE MARCOLIN •EFFECT OF SKI BOOT TIGHTNESS ON SHOCK ATTENUATION TIME AND JOINT ANGLE WITH ANTERIOR-POSTERIOR FOOT POSITIONING IN DROP LANDINGS - SHINYA ABE AND RANDALL L. JENSEN •THE EFFECT OF WALKING SPEED AND SKILL LEVELS ON ELBOW FLEXION AND UPPER LIMB EMG SIGNALS IN NORDIC WALKING: A PILOT STUDY - NICOLA PETRONE, MANUEL ORSETTI AND GIUSEPPE MARCOLIN 	<p>Oral Session S16 – Training Methods [Session Chair - Kieran Moran]</p> <ul style="list-style-type: none"> •GAIT DOES NOT RETURN TO NORMAL FOLLOWING TOTAL HIP ARTHROPLASTY: IMPLICATIONS FOR A RETURN TO ATHLETIC ACTIVITIES - MARIO LAMONTAGNE, MELANIE BEAULIEU AND PAUL BEAULE •THE EFFECTS ON STRENGTH, POWER, AND GENU VALGUM FOLLOWING A FIVE WEEK TRAINING PROGRAM WITH WHOLE-BODY VIBRATION - SARAH HILGERS AND BRYAN CHRISTENSEN •THE EFFECTS OF RECOVERY MODALITIES INCLUDING ICE BATH IMMERSION ON RECOVERY FROM EXERCISE AND SUBSEQUENT PERFORMANCE - PAULA FITZPATRICK AND GILES WARRINGTON •SPECIFIC TRAINING CAN IMPROVE SENSORIMOTOR CONTROL IN TYPE 2 DIABETIC PATIENTS - LOTHAR THORWESTEN, ARMIN EICHLER, CHRISTOPH SPERLBAUM, ERIC EILS, DIETER ROSENBAUM AND KLAUS VÖLKER 	
1800 – 1830	Poster Session PS4 – Removal of Posters		
1930 – LATE	BBQ		

0900 – 1630
Applied Swimming Programme
Session Chair – Ross Sanders

Thursday 20 August 2009			
0830 – 0920	<p style="text-align: center;">Keynote Lecture – Adamantios Arampatzis PLASTICITY OF HUMAN TENDON'S MECHANICAL PROPERTIES: EFFECTS ON SPORT PERFORMANCE <i>Session Chair – Albert Gollhofer</i></p>		
0930 – 1100	<p>Oral Session S17 – Variability <i>[Session Chair - Joseph Hamill]</i></p> <ul style="list-style-type: none"> •A COMPARISON OF VARIABILITY IN GROUND REACTION FORCE AND KNEE ANGLE PATTERNS BETWEEN MALE AND FEMALE ATHLETES - SARAH BREEN AND MICHAEL HANLON •INTERSEGMENTAL COORDINATION DIFFERENCES BETWEEN BEGINNING PERFORMERS EXECUTING A BADMINTON SMASH FOR ACCURACY OR VELOCITY - SCOTT STROHMEYER, COLE ARMSTRONG, YURIY LITVINSKY, ROBERT NOONEY, JABAN MOORE AND KEVIN SMITH •SKILL LEVEL AND PARTICIPATION OF UNIVERSITY STUDENTS IN RECREATIONAL SPORT - PHILIP KEARNEY, PJ SMYTH AND ROSS ANDERSON •AUGMENTED KNOWLEDGE OF RESULTS FEEDBACK IN TENNIS SERVE TRAINING - KIERAN MORAN, COLM MURPHY, GARRY CAHILL AND BRENDAN MARSHALL •THE SPANNING SET AS A MEASURE OF MOVEMENT VARIABILITY - MICHAEL HANLON, JOAN CONDELL AND PHILIP KEARNEY •ACTUE EFFECTS OF WHOLE-BODY VIBRATION ON KNEE JOINT DROP LANDING KINEMATICS AND DYNAMIC POSTURAL STABILITY - EAMONN DELAHUNT, DOMENICO CROGNALE, BRIAN GREEN, CHRIS LONSDALE AND DENISE MCGRATH 	<p>Oral Session S18 – Other Sports II <i>[Session Chair - Peter Sinclair]</i></p> <ul style="list-style-type: none"> •THE EFFECT OF MAXIMAL FATIGUE ON THE MECHANICAL PROPERTIES OF SKELETAL MUSCLE IN STRENGTH & ENDURANCE ATHLETES - NIAMH NI CHEILLEACHAIR AND ANDREW HARRISON •A STUDY OF SCULLING SWIMMING PROPULSIVE PHASES AND THEIR RELATIONSHIP WITH HIP VELOCITY – RAUL ARELLANO, BLANCA DE LA FUENTE AND ROCÍO DOMINGUEZ •PROPOSAL OF AN ADDITIONAL-INERTIA TUNING METHOD TO VISCOUS LOAD FOR HIGH SPEED MOTION TRAINING - KENJI SHIGETOSHI, SADAO KAWAMURA AND TADA0 ISAKA •FACTORS IN UPPER EXTREMITY LOADING IN THE POWER DROP EXERCISE - DUANE KNUDSON AND CHENTU HSIEH •MECHANICAL EFFICIENCY IN BASEBALL PITCHING - DAVE FORTENBAUGH AND GLENN S. FLEISIG •INTRA-LIMB JOINT COUPLING PATTERNS DURING THE USE OF THREE LOWER EXTREMITY EXERCISE MACHINES - THOMAS J. CUNNINGHAM, DAVID R. MULLINEAUX AND SHAUN K. STINTON 	<p>Oral Session S19 – Track & Field II <i>[Session Chair - Gareth Irwin]</i></p> <ul style="list-style-type: none"> •THE EFFECT OF EXHAUSTIVE RUNNING ON POSTURAL DYNAMICS - MARK WALSH, ADAM STRANG, MATHIAS HIERONYMUS AND JOSHUA HAWORTH •GRAVITY'S ROLE IN ACCELERATED RUNNING - A COMPARISON OF AN EXPERIENCED POSE® AND HEEL-TOE RUNNER - GRAHAM FLETCHER, MARCUS DUNN AND NICHOLAS ROMANOV •ATHLETE-SPECIFIC ANALYSES OF LEG JOINT KINETICS DURING MAXIMUM VELOCITY SPRINT RUNNING - IAN N. BEZODIS, AKI, I.T. SALO AND DAVID G. KERWIN •EFFECTS OF FATIGUE ON TECHNIQUE DURING 5 KM ROAD RUNNING - BRIAN HANLEY AND LAURA SMITH •OPTIMIZATION OF DISCUS FLIGHT - AXEL SCHUELER, FALK HILDEBRAND AND JOHANNES WALDMANN •STABILISING THE HIP AND PELVIS DURING RUNNING: IS THERE AN EXPLOSIVE SOLUTION FOR UNINJURED ATHLETES? - DANIEL MEEHAN, MORGAN WILLIAMS, CAMERON WILSON AND ELIZABETH BRADSHAW
1100 – 1900	Tour		
Evening	Free		

Friday 21 August 2009			
0800 – 0830	Poster Session PS5 – Preparation		
0830 – 0945	Oral Session S20 – Martial Arts & Dance <i>[Session Chair - Manfred Vieten]</i> <ul style="list-style-type: none"> •ANALYSIS OF PERFORMANCE OF THE KARATE PUNCH (GYAKU-ZUKI) - EDIN SUWARGANDA, RUHIL RAZALI AND BARRY WILSON •ROUNDHOUSE KICK WITH AND WITHOUT IMPACT IN KARATEKA OF DIFFERENT TECHNICAL LEVEL - VALENTINA CAMOMILLA, PAOLA SBRICCOLI, FEDERICO QUINZI, ELENA BERGAMINI, ALBERTO DI MARIO AND FRANCESCO FELICI •A KINEMATIC ANALYSIS OF THE NAERYO-CHAGI TECHNIQUE IN TAEKWONDO - MICHAEL KLOIBER, ARNOLD BACA, EMANUEL PREUSCHL AND BRIAN HORSAK •A KINEMATIC ANALYSIS OF FINGER MOTION IN ARCHERY - BRIAN HORSAK, MARIO HELLER AND ARNOLD BACA •BALLET DANCER INJURIES DURING PERFORMANCE AND REHEARSAL ON VARIED DANCE SURFACES - LUKE HOPPER, NICK ALLEN, MATTHEW WYON, JACQUELINE ALDERSON, BRUCE ELLIOTT AND TIM ACKLAND 	Oral Session S21 – Jumping II <i>[Session Chair - Aki Salo]</i> <ul style="list-style-type: none"> •QUANTIFYING THE ONSET OF THE CONCENTRIC PHASE OF THE FORCE-TIME RECORD DURING JUMPING – RANDALL L. JENSEN, SARAH K. LEISSRING, LUKE R. GARCEAU, ERICH J. PETUSHEK AND WILLIAM P. EBBEN •KNEE SEPERATION DISTANCE AND QUADRICEPS AND HAMSTRINGS STRENGTH DURING DROP VERTICAL JUMP LANDINGS - ORNA DONOGHUE, LORRAINE STEEL, RACHEL COLLINS, HARRIET YOUNG AND SIMON COLEMAN •LATERALITY IN VERTICAL JUMPS - DIANA LANG, GERDA STRUTZENBERGER, ANNE RICHTER, GUNTHER KURZ AND HERMANN SCHWAMEDER •MECHANICS OF AMPUTEE JUMPING - JOINT WORK - MARLENE SCHOEMAN, CERI DISS AND SIOBHAN STRIKE •THE INFLUENCE OF SAND SURFACE ON KINEMATICS DURING VOLLEYBALL SPIKE JUMPS – MARKUS TILP, HERBERT WAGNER AND ERICH MUELLER 	
1000 – 1100	ISBS AGM		
1100 - 1115	Poster Session PS5 & Refreshments		
1115 – 1145			
1145 – 1300	Oral Session S22 – Injury II <i>[Session Chair - Jing Xian Li]</i> <ul style="list-style-type: none"> •EFFICACY OF FUNCTIONAL KNEE BRACES IN SPORT: A REVIEW – MARIO LAMONTAGNE AND NICHOLAS BRISSON •ESTIMATION OF THE POTENTIAL RISK OF ACL RUPTURE AND THE EFFECTIVENESS OF A PREVENTION TRAINING PROGRAM - THOMAS JÖLLENBECK, BRITTA GREBE AND DOROTHEE NEUHAUS •LEG PRESS EXERCISE IN PATELLOFEMORAL PAIN- A ONE-YEAR FOLLOW-UP STUDY - CHEN-YI SONG AND MEI-HWA JAN •THE EFFECT OF INJURY AND DOMINANCE ON SAGGITAL PLANE KINEMATICS DURING A DROP LAND - AMANDA CLIFFORD, KIERAN O'SULLIVAN AND MARIE TIERNEY •LOW BACK PAIN IN GOLF: DOES THE CRUNCH FACTOR CONTRIBUTE TO LOW BACK INJURIES IN GOLFERS? - MICHAEL COLE AND PAUL GRIMSHAW 	Oral Session S23 – Other Sports III <i>[Session Chair - Peter Chenfu Huang]</i> <ul style="list-style-type: none"> •KINEMATIC ANALYSIS OF THE SLIDING STOP IN WESTERN RIDING AT THE MALLORCA WESTERN REINING TROPHY 2006 - MAREN FROEGER AND CHRISTIAN PEHAM •TOWARDS UNDERSTANDING HUMAN BALANCE - ANALYZING STICK BALANCING - MANFRED VIETEN •THE USE OF PASSIVE DRAG TO INTERPRET VARIATION IN ACTIVE DRAG MEASUREMENTS - BRUCE MASON, DANIELLE FORMOSA AND VINCE RALEIGH •SURFACE ELECTROMYOGRAPHY OF ABDOMINAL AND SPINAL MUSCLES IN ADULT HORSERIDERS DURING RISING TROT - ANNETTE PANTALL, SHARRON BARTON AND PETER COLLINS •ACCURACY OF A PORTABLE (PTZ DIGITAL) CAMERA SYSTEM DESIGNED FOR AQUATIC THREE-DIMENSIONAL ANALYSIS - GEORGIOS MACHTSIRAS AND ROSS H. SANDERS 	<i>Applied Session Data Analysis Session Chair – Joe Hamill</i>
1300 – 1330	Lunch		
1300 – 1400	Poster Session PS5 – Removal of Posters		
1400 - 1500	<p>‘New Blood’ Session Keynote Lecture – Cassie Wilson <i>APPROACHES FOR OPTIMISING JUMPING PERFORMANCE</i> & Hans Gros New Investigator – Final Two <i>Session Chair - Richard Smith</i></p>		
1500 – 1530	ISBS 2009 Closing Ceremony		
1545 – 1700	ISBS Board Post-Conference Meeting		
1930	Bus Transfers from University of Limerick to the Gala Dinner		
2000 – LATE	ISBS 2009 Gala Dinner		

Oral Presentations

ISBS #

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Poster Presentations

- PS1-01 IAN KENNY, AINE MACNAMARA, AMIR SHAFAT, ORLA DUNPHY, SINEAD MURPHY, KENNETH O'CONNOR, TARA RYAN AND GERRY WALDRON. THE ROLE OF ANXIETY IN GOLF PUTTING PERFORMANCE
- PS1-02 YI-LING PENG, YANG-HUA LIN AND HEN-YU LIEN. FATIGABILITY OF TRUNK MUSCLES WHEN SIMULATING PUSHING MOVEMENT DURING TREADMILL WALKING
- PS1-03 JAMES NUTT, RAMI ABOUD, GRAHAM ARNOLD AND WEIJIE WANG. A COMPARATIVE STUDY BETWEEN BLADES AND STUDS IN FOOTBALL BOOTS
- PS1-04 YEN-PAI CHEN, CHU-FEN CHANG, HUI-LIEN CHIEN, YI-CHENG CHEN AND TUNG-WU LU. STEP HEIGHT EFFECTS ON LOWER LIMB BIOMECHANICS AND BODY CENTRE OF MASS MOTION DURING ELLIPTICAL EXERCISE
- PS1-05 TSUNG-JUNG HO, SHENG-CHANG CHEN, CHU-FEN CHANG AND TUNG-WU LU. EFFECTS OF TAI-CHI CHUAN ON THE CONTROL OF BODY'S CENTER OF MASS MOTION DURING OBSTACLE-CROSSING IN THE ELDERLY
- PS1-06 PATRYCJA LIPINSKA AND WLODZIMIERZ S. ERDMANN. KINEMATICS OF TACTICS IN THE FINAL MEN'S 1500 M FREESTYLE SWIMMING OF THE BEIJING 2008 OLYMPIC GAMES
- PS1-07 PAUL TALTY AND ROSS ANDERSON. EFFECT OF FATIGUE ON THE COORDINATION VARIABILITY IN ROWERS
- PS1-08 TSONG-RONG JANG, SHENG-CHANG CHEN, CHU-FEN CHANG, YANG-CHIEH FU AND TUNG-WU LU. BIOMECHANICS AND POTENTIAL INJURY MECHANISMS OF WRESTLING
- PS1-09 CHIN-FU HSU, KUO-CHENG LO, YI-CHIEN PENG AND LIN-HWA WANG. COMPARISON OF BALL-AND- RACKET IMPACT FORCE IN TWO-HANDED BACKHAND BETWEEN DIFFERENT DIRECTIONS OF STROKE
- PS1-10 GENKI NAKANO, YOICHI IINO AND TAKEJI KOJIMA. INFLUENCES OF THE MASS OF BOXING GLOVES ON THE IMPACT FORCE OF A REAR HAND STRAIGHT PUNCH
- PS1-11 CATHERINE TUCKER, IAN KENNY, DEREK BYRNE AND ROSS ANDERSON. THE EFFECT OF VARYING CLUB HEAD MASS ON VELOCITY AND KINETIC ENERGY
- PS1-12 SARAH K. LEISSRING, WILLIAM P. EBBEN, LUKE R. GARCEAU, ERICH J. PETUSHEK AND RANDALL L. JENSEN. RELIABILITY OF FORCES DURING VARIATIONS OF PLYOMETRIC EXERCISES
- PS1-13 GARRETT COUGHLAN, ULRIC MC CARTHY PERSSON, ROD MC LOUGHLIN AND BRIAN CAULFIELD. AN INVESTIGATION INTO THE EFFECTS OF A SIMULATED EFFUSION IN HEALTHY SUBJECTS ON KNEE KINEMATICS AND LOWER LIMB MUSCLE ACTIVITY DURING A SINGLE LEG DROP LANDING
- PS1-14 YOUNGJIN MOON. CONSISTENCY OF WEIGHTLIFTING SNATCH SKILL ACCORDING TO INCREASE BARBELL WEIGHT
- PS1-15 SHINYA ABE, MATTHEW K.D. LEWIS, KRISHNAKUMAR MALLIAH, PARIS L. MALIN AND RANDALL L. JENSEN. EFFECT OF BILATERAL OR SINGLE LEG LANDING ON KNEE KINEMATICS
- PS1-16 MARIANNE GITTOES, GARETH IRWIN, DAVID MULLINEAUX AND DAVID KERWIN. LANDING STRATEGY MODULATION IN BACKWARD ROTATING PIKED AND TUCKED SOMERSAULT DISMOUNTS FROM BEAM
- PS1-17 PHILIPPE ROUSSEAU, EVAN WALSH, SCOTT FOREMAN AND BLAINE HOSHIZAKI. THE EFFECT OF IMPACT CONDITION ON THE RELATIONSHIP BETWEEN LINEAR AND ANGULAR ACCELERATION
- PS1-18 MARIANNE GITTOES, GARETH IRWIN, DAVID MULLINEAUX AND DAVID KERWIN. JOINT KINEMATIC VARIABILITY IN THE AERIAL AND LANDING PHASES OF BACKWARD ROTATING DISMOUNTS FROM BEAM
- PS1-19 ANGUS TAK KAI LAM, DANNY PAK KEUNG CHU AND PAK MING CHEUNG. A COMPARISON OF RUNNING KINEMATICS BETWEEN TOP 6 AND HONG KONG ELITE TRIATHLETES IN 2008 ASIAN CHAMPIONSHIPS
- PS1-20 BARBARA WARREN, SARAH MOODY AND DEANNA MALIKIE. COMPARISON OF MALE AND FEMALE PEAK TORQUE USING A VARIABLE NUMBER OF REPETITIONS
- PS1-21 TAKAHITO TAGO, MICHIOYOSHI AE, DAISUKE TSUCHIOKA, NOBUKO ISHII AND TADASHI WADA. KINEMATIC ANALYSIS OF THE UPPER LIMB AT THE HEIGHT OF HITTING POINT IN A BASEBALL BATTING
- PS1-22 MARK SAMUELS, GARETH IRWIN, DAVID KERWIN AND MARIANNE GITTOES. TREND ANALYSIS OF COMPLEX RELEASE AND RE-GRASP SKILLS ON THE HIGH BAR
- PS1-23 SHAO-YI LIU, WAN-CHIN CHEN AND TZY-YUANG SHIANG. EFFECT OF JUMP PERFORMANCE ON DIFFERENT COMPRESSION GARMENTS
- PS1-24 NICK FLYGER. VARIABILITY IN COMPETITIVE PERFORMANCE OF ELITE TRACK CYCLISTS
- PS1-25 TOM CRESSWELL AND ANDREW MITCHELL. DYNAMIC BALANCE IN SKIERS
- PS1-27 TETSU YAMADA, DAISUKE NISHIKAWA, YUSUKE SATO AND MAIKO SATO. COMPARISON OF TURN TECHNIQUES IN PERFORMING THE BASKET WITH HALF TURN TO HANDSTAND ON PARALLEL BARS
- PS1-28 YU LIU, WEIJIE FU AND XIAOJIE XIONG. THE EFFECT OF DIFFERENT EXTERNAL ELASTIC COMPRESSION ON MUSCLE STRENGTH, FATIGUE, EMG AND MMG ACTIVITY
- PS1-29 ALEXANDER KOTSCHWAR AND CHRISTIAN PEHAM. COMPARISON OF SINGLE- AND MULTILAYER MATERIALS USED AS DAMPENING ELEMENTS IN KNEE-PROTECTORS
- PS1-30 LAURA CHARALAMBOUS, GARETH IRWIN, IAN BEZODIS, DAVID KERWIN AND ROBERT HARLE. LOWER LIMB JOINT STIFFNESS IN THE SPRINT START PUSH-OFF
- PS1-31 JUSTIN WAI YUK LEE, MANDY MAN LING CHUNG, KAM MING MOK AND YOULIAN HONG. A KINETIC COMPARISON OF RUNNING ON TREADMILL AND OVERGROUND SURFACES: AN ANALYSIS OF PLANTAR PRESSURE
- PS1-32 RUSSELL PETERS, NEAL SMITH AND MIKE LAUDER. THE EFFECTS OF ADIDAS POWERWEB COMPRESSION SHORTS ON MUSCLE OSCILLATION AND DROP JUMP PERFORMANCE.
- PS1-33 MOHAMMADTAGHI AMIRI KHORASANI, ASHRIL , YUSOF AND NOOR AZUAN ABU OSMAN. KINEMATICS ANALYSES OF INSTEP KICK BETWEEN DIFFERENT POSITIONS OF PROFESSIONAL SOCCER PLAYERS
- PS1-34 DAVID KEELEY, GRETCHEN OLIVER, PRISCILLA DWELLY AND HIEDI HOFFMAN. A KINEMATIC DESCRIPTION OF THE POST PUBESCENT WINDMILL SOFTBALL PITCHING MOTION
- PS1-35 ALAN SWANTON AND ROSS ANDERSON. DEVELOPMENT OF A RECORDING SYSTEM TO EMPIRICALLY ANALYSE THE SHOOTING CHARACTERISTICS OF CLAY PIGEON SHOOTERS
- PS1-36 DARRAGH GRAHAM AND ANDREW HARRISON. COMPLEX TRAINING: THE OPTIMUM REST INTERVAL FOR POTENTIATION BETWEEN A 3RM BACK SQUAT AND A SQUAT JUMP
- PS1-37 GUNTHER KURZ, DIANA LANG, ANNE RICHTER AND HERMANN SCHWAMEDER. RELIABILITY OF DROP JUMP VARIATIONS IN PERFORMANCE DIAGNOSTICS
- PS1-38 LUKE CONROY, CIARÁN Ó CONAIRE, PHILIP KELLY, SHIRLEY COYLE, PADDY NIXON, GRAHAM HEALY, DAMIAN CONNAGHAN, NOEL O'CONNOR, BRIAN CAULFIELD AND ALAN SMEATON. TENNISSENSE: A MULTI-SENSORY APPROACH TO PERFORMANCE ANALYSIS IN TENNIS
- PS2-01 KEISUKE WATANABE AND TOSHIO YANAGIYA. IS PASSIVE PLANTAR FLEXION TORQUE DETERMINANT OF LOWER LIMB STIFFNESS?
- PS2-02 EAMONN FLANAGAN, RANDALL L. JENSEN, DREW HARRISON AND DAN RICKABY. THE EFFECT OF FATIGUE ON REACTIVE STRENGTH IN ANTERIOR CRUCIATE LIGAMENT RECONSTRUCTED INDIVIDUALS
- PS2-03 ALEX DINSDALE, ATHANASSIOS BISSAS AND SOPHIE REYNOLDS. A WARM-UP INCLUDING A 5RM SQUAT PROTOCOL INCREASED BLOOD LACTATE, WITHOUT ALTERING THE SUBSEQUENT JUMP PERFORMANCE.
- PS2-04 IAN KENNY AND SELVA PRAKASH JEYARAM. INFLUENCE OF ANKLE TAPING ON JUMP PERFORMANCE
- PS2-05 LAURA-ANNE FURLONG, GARETH IRWIN, CASSIE WILSON, HUW WILTSHIRE AND DAVID KERWIN. DOUBLE KNEE BEND IN THE POWER CLEAN
- PS2-06 AYA MIYAMOTO, JOJI UMEZAWA AND TOSHIO YANAGIYA. STUDY ON DEVELOPMENTS OF BODY COMPOSITION AND PHYSICAL FITNESS FOR A YEAR IN JAPANESE ADOLESCENT TRACK AND FIELD ATHLETES
- PS2-07 GREGORY MAY AND DR. GILES WARRINGTON. A COMPARISON OF THE AEROBIC ENERGY DEMANDS OF TWO COMMERCIALY AVAILABLE CYCLE ERGOMETERS IN TRAINED CYCLISTS
- PS2-08 TUNG-WU LU, CHIH-HUNG HUANG, YEN-PAI CHEN, CHU-FEN CHANG AND HUI-LIEN CHIEN. EFFECTS OF STEP LENGTH ON THE BIOMECHANICS OF LOWER LIMBS DURING ELLIPTICAL EXERCISE
- PS2-09 DAWN TIGHE, GARETH IRWIN, DAVID KERWIN AND MARIANNE GITTOES. PREPARATORY LONGSWING TECHNIQUES FOR DISMOUNTS ON UNEVEN BARS
- PS2-10 ALBERT BUSQUETS, MICHEL MARINA, ALFREDO IRURTIA AND ROSA M. ANGULA-BARROSO. PRACTICE AND TALENT EFFECTS IN SWING HIGH BAR INTER-JOINT COORDINATION OF NOVICE ADULTS
- PS2-11 HIEDI HOFFMAN, GRETCHEN OLIVER, DAVID KEELEY, KASEY BARBER AND PRISCILLA DWELLY. THE RELATIONSHIP BETWEEN GLUTEAL ACTIVITY AND PELVIC KINEMATICS DURING THE WINDMILL SOFTBALL PITCH
- PS2-12 TOSHIYUKI FUJIHARA AND PIERRE GERVAIS. HIP MOMENT PROFILES DURING CIRCLES IN SIDE SUPPORT AND IN CROSS SUPPORT ON THE POMMEL HORSE
- PS2-13 NYEON-JU KANG, WOEN-SIK CHAE, CHANG-SOO YANG AND GYE-SAN LEE. THE EFFECTS OF SPORTS TAPING ON IMPACT FORCES AND MECHANICAL BEHAVIORS OF SOFT TISSUE DURING DROP LANDING
- PS2-14 GRACE SMITH AND MARK LAKE. FOOT FUNCTION IN SPRINTING: BAREFOOT AND SPRINT SPIKE CONDITIONS
- PS2-15 KANE MIDDLETON, POONAM CHAUHAN, BRUCE ELLIOTT AND JACQUELINE ALDERSON. THE VELOCITY DEPENDENCE OF TECHNNIQUES COMMONLY LINKED WITH LOWER BACK INJURY IN CRICKET FAST BOWLING
- PS2-16 EMAN SH. MAHMUD. THE IMPACT OF ANGLE DISPLACEMENT EXERCISES OF LOWER LIMB EXTENSION MUSCLE IN HURDLES FOR CHILDREN
- PS2-17 DAVID KEELEY, GRETCHEN OLIVER, PRISCILLA DWELLY, HIEDI HOFFMAN AND CHRISTOPHER DOUGHERTY. RELATIONSHIPS BETWEEN HIP AND SHOULDER ROTATION DURING BASEBALL PITCHING
- PS2-18 MAYUMI KUNO-MIZUMURA AND MAKIKO NAGAKURA. ACUTE EFFECTS OF STATIC STRETCHING ON FORCE OUTPUT OF DORSI FLEXORS IN DANCE STUDENTS
- PS2-19 YUKIO URABE, YUKI NODA, SHINJI NOMURA, TAKESHI AKIMOTO, HIROE SHIDAHARA AND YUKI YAMANAKA. THE DIFFERENCE OF THE BALANCE ABILITY BETWEEN THE FUNCTIONAL ANKLE INSTABILITY AND HEALTHY SUBJECTS
- PS2-21 ERIN LEAROYD AND KATHRYN LUDWIG. A BIOMECHANICAL COMPARISON OF THE LOWER EXTREMITY DURING FRONT AND BACK SQUATS IN HEALTHY TRAINED INDIVIDUALS
- PS2-22 MOHAMMADTAGHI AMIRI KHORASANI, ASHRIL YUSOF AND NOOR AZUAN ABU OSMAN. ACUTE EFFECT OF DIFFERENT STRETCHING METHODS ON KINEMATICS OF LOWER EXTREMITY DURING INSTEP KICKING IN PROFESSIONAL SOCCER PLAYERS
- PS2-23 ROBERT MARSHALL. QUALITY OF DINGHY HIKING: EFFECTS ON SPEED AND HEADING
- PS2-24 ISAAC ESTEVAN, CORAL FALCO, OCTAVIO ALVAREZ, FERNANDO MUGARRA AND ANTONIO IRADI. MECHANICAL COMPARISON BETWEEN ROUNDHOUSE KICK TO THE CHEST AND TO THE HEAD IN FUNCTION OF EXECUTION DISTANCE IN TAEKWONDO
- PS2-25 CORAL FALCO, OCTAVIO ALVAREZ, ISAAC ESTEVAN, JAVIER MOLINA-GARCIA, FERNANDO MUGARRA AND ANTONIO IRADI. KINETIC AND KINEMATICAL ANALYSIS BETWEEN DOMINANT AND NON-DOMINANT KICKING LEG IN A ROUNDHOUSE KICK IN TAEKWONDO
- PS2-27 MARC ELIPOT, NICOLAS HOUËL, PHILIPPE HELLARD AND GILLES DIETRICH. RECONSTRUCTION ACCURACY FOR VISUAL CALIBRATION METHOD
- PS2-28 SHINJI MIZUMURA, YOSHIHISA MASAKADO, KATSUHIKO MAEZAWA AND KELLY F MCGRATH. MOTOR UNIT FIRINGS DURING VOLUNTARY ISOMETRIC RAMP AND BALLISTIC CONTRACTIONS IN HUMAN VASTUS MEDIALIS MUSCLE
- PS2-29 GRETCHEN OLIVER, PRISCILLA DWELLY, DAVID KEELEY AND HIEDI HOFFMAN. EXAMINATION OF GLUTEAL MUSCLE FIRING AND KINETICS OF THE LOWER EXTREMITY DURING THE WINDMILL SOFTBALL PITCH
- PS2-30 FERDINAND TUSKER AND FLORIAN KREUZPOINTNER. BIOMECHANICAL SETTINGS OF TWO WAYS TO EXECUTE THE GOLF SWING
- PS2-31 MORTEZA SHAHBAZI. DETERMINATION OF ARMS AND LEGS CONTRIBUTION TO PROPULSION AND PERCENTAGE OF COORDINATION IN BUTTERFLY SWIMMING
- PS2-32 DANIEL MARINHO, FILIPE CARVALHO, TIAGO BARBOSA, VICTOR REIS, FRANCISCO ALVES, ABEL ROUBOA AND ANTÓNIO SILVA. THE DETERMINATION OF DRAG IN THE GLIDING PHASE IN SWIMMING
- PS2-33 MIKE LAUDER AND REBECCA NEWELL. ASYMMETRY IN FRONT-CRAWL SWIMMING WITH AND WITHOUT HAND PADDLES
- PS2-34 LIN-HWA WANG, KUO-CHENG LO, YUNG-CHUN HSIEH AND FONG-CHIN SU. DIFFERENCES IN SEGMENTAL MOMENTUM TRANSFERS BETWEEN TWO STROKE POSTURES FOR TENNIS TWO-HANDED BACKHAND STROKE
- PS2-35 PARK SEUNGBUM, PARK SANGKYOON, LEE JUNGHO, LEE KYUNGDEUK, KIM DAWOONG, SEO KOOKEUN AND SHIN HAKSOO. BIOMECHANICAL ANALYSIS OF ROUNDED OUTSOLE DESIGN SHOE DURING WALKING
- PS2-36 MICHELLE MANNING, GARETH IRWIN, DAVID KERWIN AND MARIANNE GITTOES. PREPARATORY LONGSWINGS PRECEDING TKACHEVS ON UNEVEN BARS
- PS2-37 YOICHI IINO AND TAKEJI KOJIMA. RELIABILITY OF INVERSE DYNAMICS OF THE WHOLE BODY IN THE TENNIS FOREHAND
- PS2-38 FRANTISEK VAVERKA, ZLATAVA JAKUBSOVA AND DANIEL JANDACKA. THE INFLUENCE OF EXTRA LOAD ON TIME AND FORCE STRUCTURE OF VERTICAL JUMP
- PS2-39 MORTEZA SHAHBAZI AND NARGES KHOSRAVI. ESTIMATION OF HORSE LEGS MUSCLES FORCES DURING JUMPING
- PS2-40 CHENG-SHUAN CHANG AND TZY-YUANG SHIANG. THE ANALYSIS OF PEDALING FORCE AND LOWER EXTREMITY EMG USING DIFFERENT PEDALING RATES AND LOADS

PS3-01 GABRIELLA PENITENTE, FRANCO MERNI AND SILVIA FANTOZZI. ON-BOARD AND PRE-FLIGHT MECHANICAL MODEL OF YURCHENKO 1/1 TWIST ON VAULT: IMPLICATIONS FOR PERFORMANCE

PS3-02 CHUN-LUNG LIN AND CHEN-FU HUANG. GROUND REACTION FORCE OF BASEBALL FLAT GROUND PITCHING

PS3-03 AMANDA P. SILVATTI, MARCEL M. ROSSI, FÁBIO A. S. DIAS, NEUCIMAR J. LEITE AND RICARDO M. L. BARROS. NON-LINEAR CAMERA CALIBRATION FOR 3D RECONSTRUCTION USING STRAIGHT LINE PLANE OBJECT

PS3-04 HIROAKI FUJII, KEIGO OHYAMA BYUN, MITSUGI OGATA, NORIHISA FUJII. THE CONTRIBUTION OF LOWER TORSO, UPPER TORSO AND UPPER LIMBS SEGMENTAL MOTION TO HAMMER HEAD VELOCITY DURING ACCELERATION PHASE

PS3-05 JASON LAKE, MIKE LAUDER AND NEAL SMITH. ASYMMETRIC LOADING DURING THE HANG POWER CLEAN - THE EFFECT THAT SIDE DOMINANCE HAS ON BARBELL POWER SYMMETRY

PS3-06 JASON SMITH, KEVIN BALL AND CLARE MACMAHON. FOOT-TO-BALL INTERACTION IN PREFERRED AND NON-PREFERRED LEG AUSTRALIAN RULES KICKING

PS3-07 WASSF ISAAC AND A. A. KAMAL. THE STUDY AND APPLICATION OF THE INERTIA GAIT

PS3-08 MELANIE BEAULIEU, MARIO LAMONTAGNE, DANIEL VARIN AND PAUL BEAULE. LOWER LIMB BIOMECHANICAL ADAPTATIONS TO TOTAL HIP ARTHROPLASTY EXIST DURING SITTING AND STANDING TASKS

PS3-09 MASANAO MASUMURA, MARQUES WALTER QUISPE AND MICHIOYOSHI AE. FRONT AND PIPE SPIKES IN FEMALE ELITE VOLLEYBALL PLAYERS: IMPLICATIONS FOR THE IMPROVEMENT OF PIPE SPIKE TECHNIQUES.

PS3-10 EAMONN DELAHUNT, DOMENICO CROGNALÉ, BRIAN GREEN, CHRIS LONSDALE AND DENISE MCGRATH. ACTUE EFFECTS OF WHOLE-BODY VIBRATION ON KNEE JOINT DROP LANDING KINEMATICS AND DYNAMIC POSTURAL STABILITY

PS3-11 PIOTR ASCHENBRENNER AND WLODZIMIERZ ERDMANN. SECURITY OF RUNNING OF COMPETITIVE COURSE IN ALPINE SKIING ACCORDING TO ITS GEOMETRY OF SETTING

PS3-12 PHILIPPA JONES, DAVID KERWIN, GARETH IRWIN, LEN NOKES AND RAJIV KAILA. LOWER LIMB LANDING BIOMECHANICS ON NATURAL AND FOOTBALL TURF

PS3-13 MANUEL FORERO RUEDA, WALTER HALLEY AND MICHAEL GILCHRIST. FALL AND INJURY INCIDENCE RATES OF JOCKEYS WHILE RACING IN FRANCE, GREAT BRITAIN AND IRELAND

PS3-14 LAURA-ANNE FURLONG AND ANDREW HARRISON. ACUTE EFFECTS OF WHOLE-BODY VIBRATION TRAINING ON ELASTIC CHARGE TIME IN TRAINED MALE ATHLETES

PS3-15 YO CHEN, JIA-HAO CHANG, TAI-YEN HSU AND YU-PEI KAO. AN INVESTIGATION INTO THE IMPACT FORCE EXPERIENCED BY DIFFERENT TYPES OF FOOTBALLS

PS3-16 MATILDE ESPINOSA-SANCHEZ. THE SYMMETRY IN GAIT KINEMATICS OF ADOLESCENTS' CASE STUDIES

PS3-17 KATHLEEN SHORTER, NEAL SMITH AND MIKE LAUDER. ANKLE JOINT LOADING DURING THE DELIVERY STRIDE IN CRICKET MEDIUM-FAST BOWLING

PS3-18 YI-CHIEN PENG, KUO-CHENG LO, HWAI-TING LIN AND LIN-HWA WANG. EMG ANALYSIS OF THE LOWER EXTREMITY BETWEEN VARYING STANCE SQUAT WIDTHS IN BASEBALL CATCHER THROWING

PS3-19 DANIEL MARINHO, RICARDO FERRAZ, ROLLAND TILLAR, ALDO COSTA, VICTOR REIS, ANTÓNIO SILVA, JUAN GONZÁLEZ-BADILLO AND MÁRIO MARQUES. RATE FORCE DEVELOPMENT DURING BENCH PRESS IS ONLY RELATED TO THROWING VELOCITY WHEN USING LIGHT LOADS

PS3-20 JING XIAN LI, LIN WANG AND YOU LIAN HONG. WHAT ARE VALUES OF SHOELACES IN RUNNING?

PS3-22 DAISAKU HIRAYAMA, NORIHISA FUJII AND MICHIOYOSHI AE. CHANGES IN SCAPULAR MOTION DURING A SIMULATED BASEBALL GAME

PS3-23 ZGURSKY NIKOLAY, BORIS DYCHKO AND ALEXANDER KOCHERGIN. USING OF THE BIOMECHANICAL INNOVATION EXERCISER IN THE HARD-OF-HEARING SWIMMERS TRAINING

PS3-24 BRIAN HANLEY, ANDI DRAKE AND ATHANASSIOS BISSAS. THE MEASUREMENT OF KINETIC VARIABLES IN RACE WALKING

PS3-25 PAUL WORSFOLD, NEAL SMITH AND ROSEMARY DYSON. IN-SHOE PLANTAR PRESSURE MEASURES DURING GOLF SWING PERFORMANCE WEARING METAL AND ALTERNATIVE SPIKED GOLF SHOES

PS3-26 MOSHE AYALON, IFTACH HETSRONI AND DAVID BEN SIRA. STATIC AND DYNAMIC ANALYSIS OF THE FOOT IN SOCCER PLAYERS SUSTAINING PROXIMAL 5TH METATARSAL STRESS FRACTURE

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