

8th Conference of the International Sports Engineering Association - Vienna 2010 - 12th to 16th July

from		to		Tuesday 13th					
07:45		09:00		Registration					
09:00		10:45		Conference Opening Ceremony (hall GH); Speakers: Anton Sabo (Head of Organising Committee), Hermann Krist (Sports Spokesman Austrian Social Democratic Party), Alan Bramley (ISEA President), Fritz Schmöllebeck (Rector UAS Technikum Wien)					
10:45		11:30		Morning Tea					
				hall GH		hall I		hall K	
				topic		topic		topic	
11:30		11:45		FACTORS AFFECTING THE ARODYNAMIC DRAG OF ALPINE SKIERS (Mr. Leonard Brownlie)		COST EVALUATION OF DIFFERENT SNATCH TRAJECTORIES BY USING DYNAMIC PROGRAMMING METHOD (Mr. Shahram Lenjan Nejadian)		DEVELOPMENT OF AN INNOVATIVE SINGLE SCULL FOR THE RECREATIONAL ROWER (Mrs. Lenneke De Vooqd-Claessen)	
11:45		12:00		SKI JUMPING FLIGHT SKILL ANALYSIS BASED ON HIGH-SPEED VIDEO IMAGE (Mr. Masahide Murakami)		COMPARATIVE ANALYSIS OF MUSCLE ACTIVATION PATTERNS BETWEEN SKIING ON SLOPES AND ON TRAINING DEVICES (Mr. Fausto Antonio Panizzolo)		DESIGN OF AN END-USER CENTRIC INFORMATION INTERFACE FROM DATA-RICH PERFORMANCE ANALYSIS TOOLS IN ELITE SWIMMING (Mrs. Sarah Mullane)	
12:00		12:15		A Low Drag Suit For Ski-Cross Competitions (Mr. Luca Oggiano)		AN ERGOMETER BASED STUDY OF THE ROLE OF THE UPPER LIMBS IN THE FEMALE ROWING STROKE (Mr. James Jones)		THE DEVELOPMENT OF AN INEXPENSIVE PASSIVE MARKER SYSTEM FOR THE ANALYSIS OF STARTS AND TURNS IN SWIMMING (Mrs. Sian Slawson)	
12:15		12:30		RELEVANCE OF SIMILITUDE PARAMETERS FOR DRAG REDUCTION IN SPORT AERODYNAMICS (Mrs. Annick D'Auteuil)		A MOBILE MEASURE DEVICE FOR THE ANALYSIS OF HIGHLY DYNAMIC MOVEMENT TECHNIQUES (Mr. Thomas Jaitner)		REAL TIME MONITORING OF SWIMMING PERFORMANCE (Mrs. Tanya Le Sage)	
12:30		12:45		AUTOMATED AERODYNAMIC OPTIMIZATION OF THE POSITION AND POSTURE OF A BOBSLEIGH CREW (Mr. Andreas Winkler)		Kinematics of the Foot Joint in Female Soccer Players during the Ball Impact Phase of Kicking (Mrs. Keiko Sakamoto)		HIGH-FIDELITY DEVICE FOR ONLINE RECORDING OF FOOT-STRETCHER FORCES DURING ROWING (Mr. Dominik Krumm)	
12:45		13:00		LESSONS LEARNED FROM THE AERODYNAMIC SHAPE DEVELOPMENT OF A BOBSLEIGH (Mr. Albert Permpintner)		EFFICIENT HUMAN FORCE TRANSMISSION TAILORED FOR THE INDIVIDUAL CYCLIST (Mr. Alexander Purdue)		DEVELOPMENT OF A NEW PRODUCT FOR UNRESTRAINED HEART RATE MEASUREMENT IN SWIMMING: A USER CENTERED DESIGN APPROACH (Mrs. Lenneke De Vooqd-Claessen)	
13:00		14:00		Lunch					
				hall GH		hall I		hall K	
				topic		topic		topic	
14:00		14:15		STATISTICS OF BICYCLE RIDER MODEL (Mr. J. D. G. Kooijman)		HGH - TECH - TEXTILES IN COMPETITION SPORTS (Mrs. Michaela Nusser)		Performance artificial turf components – fibrillated tape (Mr. Peter Sandkuehler)	
14:15		14:30		LOW-POWER, MODULAR, WIRELESS, DYNAMIC MEASUREMENT OF BICYCLE MOTION (Mr. Mont Hubbard)		A METHOD FOR THE ANALYSIS OF CYCLIST SHORTS WITH DIFFERENT PADS FOR PERINEAL AREA PROTECTION: COMPARISON BETWEEN DRUM AND ROAD TESTS (Mr. Giuseppe Marcolin)		SHOCK ATTENUATION PROPERTIES IN RUNNER-SURFACE COUPLED SYSTEM WITH PARAMETER SENSITIVITY TEST (Mr. Harutoshi Yukawa)	
14:30		14:45		Construction of a test bench for bicycle rim and disc brakes (Mr. Clemens Oertel)		FACTORS INFLUENCING THE EFFECTIVENESS OF COMPRESSION GARMENTS USED IN SPORTS (Mrs. Olga Troynikov)		DYNAMIC SIGNATURE FOR TUMBLE TURN PERFORMANCE IN SWIMMING (Mrs. Sian Slawson)	
14:45		15:00		A NOVEL DYNAMOMETRIC HUBSET DESIGN TO MEASURE WHEEL LOADS IN ROAD CYCLING (Mr. Jean-Marc Drouet)		Aerodynamic and Comfort Characteristics of A Double Layer Knitted Fabric Assembly for High Speed Winter Sports (Mrs. Olga Troynikov)		PLAYER TESTING AND STATISTICAL ANALYSIS OF TWO DIFFERENT METHODS FOR SPINE-ALIGNING GOLF CLUB SHAFTS (Mr. Jean-Samuel Rancourt)	
15:00		15:15		TRACKING A SINGLE CYCLIST DURING A TEAM CHANGEOVER ON A VELODROME TRACK WITH PYTHON AND OPCVY (Mr. Lindsey Underwood)		PRACTICAL AND SCIENCE BASED FUNCTIONALITY TESTS OF SPORT EQUIPMENTS (Mrs. Michaela Nusser)		The quasi-static and dynamic testing of damping in golf clubs shafts fabricated from carbon fibre composites. (Mr. Martin Strangwood)	
15:15		15:45		Poster Session #1: Design Of An Ergometer to Train And Evaluate Elite Cross-Country Skiers ; Electromyographic activity of shoulder muscles during the differents phases of a discus throw ; Strain in BMX frame through different tests ; Effect of flax fibre reinforcement on the riding comfort of composite racing bicycle frames ; It's not about the Bike: Factors Correlated with Better Performance in a High Altitude Ultra-endurance Mountain Bike Race ; Development of a large-scale golfer computer model to study swing kinematics ; Accounting for ball performance differences in golf club fitting ; Analyzing the motions of the soccer throw-in using inertial sensors ; The effects of ball impact location on wrist flexion for one-handed tennis backhand groundstrokes ; PROCESSING OF THE METALLIC FOAM COVERINGS FOR THE TENNIS TABLE RACKETS ; Modified Chapman Ball Control Test in Field Hockey using a Stick-mounted Accelerometer					
15:45		16:30		Afternoon Tea					
				hall GH		hall I		hall K	
				topic		topic		topic	
16:30		16:45		PROBLEMS OF SPORT ENGINEERING IN TEACHING THEORETICAL MECHANICS (Mr. Oleg Il'yayov)		COMFORT OF CRICKET LEG GUARDS: A STUDY OF STRAP CONTACT PRESSURE (Mr. James Webster)		A review of developments into therapeutic footwear research (Mr. Mohammad Reza Shariatmadari)	
16:45		17:00		UCD SPORTS ENGINEERING PROGRAM (Mr. Peter Jenkins)		Can Interactive Textiles Influence a Novice's Throwing Technique? (Mr. Ian Blanchonette)		SIX FEATURES OF MODERN SPORT FRONTIER TECHNIQUE INNOVATIONS (Mr. Cirmin Liang)	