

VISTA 2013 Scientific Programme

Detailed programme description

May 1-4 2013



	WEDNESDAY 1 MAY 2013
10:30 – 20:00*	Conference Registration
GSI Welcome Desk	*Opening times will be confirmed closer to the event
17:00 - 20:00	Opening Ceremony
Maritim Hotel	

	THURSDAY 2 MAY 2013
09:00 - 09:15	Paralympic Scientific Award Ceremony
VISTA Room 1	
09:15 - 10:00	Paralympic Sport Equipment: Performance Enhancement or
VISTA Room 1	Necessary for Performance?
	Keynote Lecture, Brendan Burkett (University of the Sunshine Coast, Australia; Member IPC Sports Science Committee)
10:00 - 10:30	Coffee Break
10:30 - 12:10	SESSION A - INVITED SYMPOSIUM 1
VISTA Room 1	Cycling Covering Equipment and Technology Development in Tricycles, Handcycles and Tandem Cycling
	Moderator: Thomas Abel (Deutsche Sporthochschule Köln, Germany)
	Panel Members:
	Claudio Perret (Schweizer Paraplegiker – Zentrum, Switzerland)
	Karine Jacon Sarro (Centro de Educacao Fisica e Desportos, Universidade Federal do Espirito Santo, Brazil)
	Oliver Heine (German Olympic and Paralympic Training Centre, Germany)
	Vicky Tolfrey (Peter Harrison Centre for Disability Sport, Loughborough University, UK)



10:30 - 12:10	SESSION B – FREE COMMUNICATIONS I
VISTA Room 2	Paralympic Swimming
10:30	Relationship between Passive Drag and IPC Swimming Class
	C. Payton - #45
10:50	Relationship between Passive Drag and Anthropometric
	Characteristics of Swimmers with a Physical Impairment
	Y-T. Oh - #42
11:10	The Effect of Tether Speed on Muscle Activation and
	Recruitment Patterns in Physically Impaired Swimmers
	C. Lee - #34
11:30	Comparison of Race Parameters for Visual Impaired Swimmers
	J. Martens - #39
12:10 – 13:40	Lunch Break
13:40 – 14:40	SESSION A – FREE COMMUNICATIONS II
VISTA Room 1	Coaching and Counselling
13:40	Wheeled Mobility in Sports: Replicating Sports Wheelchair Propulsion in a Laboratory Environment
	B. Mason - #40
14:00	Acceleration Profile during 20-M Sprints in Elite Wheelchair Tennis Players
	T. Janssen - #29
14:20	Test-Retest Reliability of Different Test Concepts in Ice Sledge Hockey
	Ø. Sandbakk - #55
14:40	A Comparison of Wheelchair Tennis Player Development Pathways, Focusing on Changes in Regional Representation and Case Studies of Players Progression
	M. Bullock - #9



13:40 – 14:40	Session B – FREE COMMUNICATIONS III
VISTA Room 2	Equipment Design
13:40	Lower Leg Prosthesis for Nordic Skiing Skate Technique — from Prototype to Production
	J. Danvind - #13
14:00	Lower Leg Prosthesis for Cross-Country Skiing Classical Technique
	P. Skoglund - #58
14:20	Optimization of Sledge Properties in Ice Sledge Hockey
	P. Kjarnli - #32
14:40 - 15:00	Coffee Break
15:00 – 16:20	Session A – FREE COMMUNICATIONS IV
VISTA Room 1	Classification Concepts and Methodology
15:00	Autonomic Cardiovascular Control and Sports Classification in Paralympic Athletes with Spinal Cord Injury
	A. Krassioukov - #33
15:20	Visual Impairment and Sporting Performance: Implications for Vision Classification in Paralympic Sport
	D. Mann - #38
15:40	Analysis of Table Tennis Specific Tests for Players with Intellectual Impairment
	S. Wu - #71
15:00 – 16:20	Session B – FREE COMMUNICATIONS V
VISTA Room 2	Equipment Design
15:00	Effect of Low Compression Balls on Wheelchair Tennis Matchplay
	P. Sindall - #57
15:20	Influence of Non-Circular Chainrings on Physiological Parameters in
	Handcycling
	S. Zeller - #72



15:40	Technical Development of an Adaptive Sports Ankle Prosthetic Component as an Equipment Aid for the Lower Leg Amputee Paratriathlete during the Transition to and from the Swimming Event.
	D. K. Lyle - #37
16:00	Sports Equipment and Technology in Developing Nations: Grass Root Initiatives to Enhance Parasports in Kenya
	P. Bukhala - #08
16:20 – 16:40	Coffee Break
16:40 – 18:20	SESSION A – INVITED SYMPOSIUM 2
VISTA Room 1	Equipment Development in Winter Sports
	Moderator: Brendan Burkett (University of the Sunshine Coast, Queensland, Australia; Member IPC Sports Science Committee)
	Panel Members:
	Laura Gastaldi (Dipartimento di Ingegneria Meccanica e Aerospaziale
	Politecnico di Torino, Italy)
	Sylvana Mestre (Play and Train, Spain; Chairperson IPC Alpine Skiing Sports Technical Committee)
	Vesa Linnamo (Department of Biology of Physical Activity
	University of Jyväskylä , Finland
16:40 – 18:20	SESSION B – FREE COMMUNICATIONS VI
VISTA Room 2	Classification in Athletes with Hypertonia, Ataxia and Athetosis
16:40	Evaluating the Validity of Tests of Impaired Coordination and Range of Motion in Runners with Hypertonia, Ataxia and Athetosis
	M. Connick - #10



17:00	Evaluating the Validity of a Novel Battery of Upper and Lower Limb Coordination and Throwing Performance in Athletes with Hypertonia, Ataxia and Athetosis J. Spathis - #61
17:20	The Assessment of Lower Limb Muscle Strength and Running Performance in Athletes with Ataxia, Athetosis and Hypertonia E. Beckman - #05
17:40	Adaptation of Block and Box Test to Evaluate Grasp and Release in Boccia Players R. Reina - #47

	FRIDAY 3 MAY 2013
09:00 – 10:00 VISTA Room 1	Equipment and Technology: from Products for Grass Roots Development to High-Tech Applications
	Keynote Lecture, Chris Rushman (Motivation, UK) / Simone Oehler (Otto Bock, Germany)
10:00 - 10:30	Coffee Break
10:30 - 12:10	SESSION A - INVITED SYMPOSIUM 1
VISTA Room 1	Athlete Health Moderator: Walt Thompson (Georgia State University Department of Kinesiology and Health, USA; Member IPC Sports Science Committee)
	Panel Members:
	David MacDonagh (Emergency Sports Medicine Research Centre, NTNU University, Norway)
	Wayne Derman (UCT Sport Science Institute of South Africa, University of Cape Town, South Africa; Member IPC Medical Committee)
	Julia Alleyne (Sport C.A.R.E., Women's College Hospital, Canada)



10:30 – 12:10	SESSION B – FREE COMMUNICATIONS I
VISTA Room 2	Wheeled Mobility
10:30	Wheeled Mobility in Adapted Sports: an Ergonomics Perspective
	L. van der Woude - #65
10:50	Wheeled Mobility in Sports: Time and Power Output over a 15m- Wheelchair Sprint as Measures of (Anaerobic) Sprint Capacity
	J.van der Scheer - #64
11:10	Wheeled Mobility in Sports: Skill Acquisition of Handrim Wheelchair Propulsion
	R. Vegter - #66
11:30	Wheeled Mobility in Sports: Optimal Training in Handcycling
	F. Hettinga - #24
12:10 – 13:40	Lunch Break
13:40 – 14:40	SESSION A – FREE COMMUNICATIONS II
VISTA Room 1	Ergometry
13:40	Compact Dynamometry in Wheelchair Sports: a New Concept for Evaluation the Propulsive Power
	S. Oliveira - #43
14:00	Paralympic Athletes Fitness Using a New Wheelchair Ergometer
	D. Freitas - #19
13:40 – 14:40	SESSION B – FREE COMMUNICATIONS III
VISTA Room 2	Classification Concepts and Methodology
13:40	Evidence Based Practice in Classification: Application of
	Systematic Review in Wheelchair Rugby
	A. Hart - #23
14:00	Can Simulations Assist in Classification Development?
	J. Holmberg - #25



14:20	A Conceptual Framework for the use of Fitts' Law to Detect Intentional Misrepresentation of Skills and/or Abilities in Paralympic Athletics
	S. Tweedy - #15
14:40 – 15:00	Coffee Break
15:00 – 16:20	SESSION A – FREE COMMUNICATIONS IV
VISTA Room 1	Athlete Health / Participation and Legacy
15:00	Assessment of Fatigue in Athletes During Manual Wheelchair Propulsion
	B. Crespo Ruiz - #12
15:20	Performance, Pacing and Neuromuscular Fatigue of Athletes with Cerebral Palsy
	P. Runciman - #51
15:40	London 2012 Volunteers: Motivations and Social Legacy Potential
	T. Dickson - #16
16:00	Reliability of Goal Perspectives and Sport Participation Motivation
	Questionnaires for Athletes with Intellectual Disabilities
	Y. Hutzler - #27
15:00 – 16:20	SESSION B – POSTER SESSION
VISTA Foyer	
	New Wheelchair Ergometer for Physical Evaluation and Training – Electronic Systems and Methodology
	S. A. A. Vieira - #1
	New Wheelchair Ergometer for Physical Evaluation and Training — Design and Tests C. A. Araújo - #3
	Analysis of Relationship Between Strength and Speed in Athletes with Visual Impairment and Guides Participants of Athletics Brazil Paralympic Team
	R. A. Barros - #4
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Chair of Shot Put Designed to Paralympic Athletes
E. D. Bonifácio - #7
Pulley System to Assess Resistive Power During Manual Wheelchair Propulsion on a Treadmill
B. Crespo-Ruiz - #11
Wheeled Mobility in Sports: the Development of a Wheelchair Propulsion Lab
S. de Groot - #14
Functional Classification of Athletics in Paralympic School Games: a Sample of the Four Editions.
P. S. de Freitas - #20
The Functional Classifiers Training in Brazil
P. S. de Freitas - #21
Psycho-Social Effects of an Intensive Competitive Boccia Training Program Compared to Recreational Boccia Training and no Training in Persons with Severe Chronic Disability
Y. Hutzler - #26
Wheeled Mobility in Sports: Hand-rim forces and gross mechanical efficiency in asynchronous and synchronous wheelchair propulsion: a comparison
J. Lenton - #35
Technical Development of an Adaptive Sports Ankle Prosthetic Component as an Aid for the Lower Leg Amputee Equestrian Paralympics' Rider to Achieve Optimum Balance and Alignment.
D. K. Lyle - #36
This works: Equipment rental services for disability sports and recreation
J. Parviainen - #44
Evidence-Based Research Starting Point for Classification in Paralympic Football-7-A-Side
R. Reina - #48



	Assessing Wheelchair Locomotion Through the use of Gyroscope Technology
	J. Rhodes - #49
	Promotion of Accessibility from Disability Sports Point of View -Lessons Learned
	A. Saari - #54
	Kinematic Evaluation of Paralympic Supine
	S. Soares - # 56
	Hand Prosthesis for Cross-Country Skiing
	H.S. Sjöberg - #59
	Evaluation of the Brazilian Paralympic Committee Anti-Doping Program from 2009 to 2012. A Critical Review
	H. Silva - #60
	Wheeled Mobility in Sport: Hand Cycling the Alpe d'Huez with a SCI
	L. Valent -#63
	Functional Profile and Age of Football Seven a Side Brazilian Athletes
	M. da Silva Campeão + #67
	Wind Tunnel to Evaluate Alpine Skiing Paralympic Athletes
	N. A. C. Vinagre - #68
	Evaluation of Muscle Imbalances and the Relationship with Sport Injuries in Athletes with Visual Impairment and their Guides.
	M.P. Magno e Silva - #70
16:20 – 16:40	Coffee Break



16:40 – 18:20	INVITED SYMPOSIUM 2
VISTA Room 1	Technology and Paralympic Classification
	Moderator: Yves Vanlandewijck (Department of Rehabilitation Sciences, KU Leuven, Belgium; Chairperson IPC Sports Science Committee)
	Panel Members:
	David Howe (Peter Harrison Centre for Disability Sport, Loughborough University, UK)
	Sean Tweedy (School of Human Movement Studies, The University of Queensland, Australia; Member IPC Classification Committee)
16:40 – 18:20	SESSION B – FREE COMMUNICATIONS V
VISTA Room 2	Participation and Legacy
16:40	Paralympic Legacy — Realising its Potential
	S. Kerr - #31
17:00	Chances and Challenges of Talent Identification and Development (TID) Programmes for Paralympic Athletes — Selected Results of a Cross-National Comparison
	S. Radtke - #46
17:20	Follow up of Integration and Inclusion Phase Report of Finnish Sports Federations
	A. Saari - #53
17:40	Developing the Paralympic Movement in West Africa: Challenges and
	Opportunities for Social Inclusion in Ghana
	Y. Tuakli-Wosornu - #62



	SATURDAY 4 MAY 2013
09:00 – 10:00 VISTA Room 1	The Balance between Access, Competitive Edge and the Philosophy of Sport
	Keynote lecture, Ivo Van Hilvoorde (Faculty of Human Movement Sciences, Netherlands)
10:00 - 10:30	Coffee Break
10:30 - 12:10	SESSION A - INVITED SYMPOSIUM 1
VISTA Room 1	Technology Counselling: Technology in Paralympic Training
	Moderator: Osnat Fliess Douer (Wingate College, Israel; School of Education Bar — Ilan University, Israel, Member IPC Sports Science Committee)
	Panel Members:
	Dr. Richardo Barros (Faculty of Physical Education, University of Campinas, Brazil)
	Use of Tracking Systems for Athlete/Coach Feedback
	Dr. Marco Cardinale (English Institute of Sport, Exercise and Health, University College London, UK; School of Medical Sciences, University of Aberdeen, Scotland)
	Technology for the coach and the athlete: state of the art and future developments
	Randall L. Wilber (USOC Athlete Performance Lab, USOC, USA)
	Use of Hypoxic Units in the Preparation of Paralympic Athletes
10:30 – 12:10	SESSION B – FREE COMMUNICATIONS I
VISTA Room 2	Athlete Health
10:30	Autonomic Cardiovascular Control in Paralympic Athletes with Spinal Cord Injury
	C. West - #69





10:50	Novel Uses of Electromyography in Evaluation of Skeletal Muscle Recruitment during Exercise in Athletes with Disabilities: a Key to Injury Prevention and Future Classification?
	P. Runciman - #52
11:10	Relationship between Perceived Shoulder Pain and Kinematic Analysis of Wheelchair Propulsion in Sedentary and Active Wheelchair Users
	I. Rossignoli - #50
11:30	Nutritional Supplement Habits and Perceptions of Athletes with a Disability: Preliminary Findings
	T. Graham - #22
12:10 – 13:40	Lunch Break
13:40 – 14:40	SESSION A – FREE COMMUNICATIONS II
VISTA Room 1	Running Prosthesis
13:40	The Impact of Technological Change in Sprinting with a Lowerlimb Amputation
	B. Dyer - #17
14:00	Impulse Syncronisation of Lower-Limb Running Prosthesis Technology: an Introduction
	S. Noroozi - #41
14:20	The Science of Coaching: Lessons to be Learned from a Case Study on the Effect of Different Running Blades on Running Performance
	S. Ferreira - #18
13:40 – 14:40	Session B — Free Communications III
VISTA Room 2	(Classification in) Wheelchair Sports
13:40	Moving Towards Evidence Based Classification in Wheelchair Rugby:
	Classification of Trunk Impairment in Relation to Static Sitting Balance Measures
	V.Altmann - #02



14:00	Sprint Performance, Trunk Muscle Strength and Trunk Classification in
	Wheelchair Rugby and Basketball Athletes.
	N. Keijsers - #30
14:20	Reliability and Validity of a Wheelchair Rugby Skills Test
	T. Janssen - #28
14:40 – 15:00	Coffee Break
15:00 – 16:20	SESSION A - INVITED SYMPOSIUM 2
VISTA Room 1	Meeting The Industry