| | Pre-conference |
|---------------|---|
| | Wednesday 4 September |
| | Outside the official VISTA programme there is a special opportunity to take part |
| | in five interesting workshops. These workshops are complementary to the VISTA |
| | conference, additional fees are required. |
| | |
| 09:00 – 12:00 | PRE-CONFERENCE WORKSHOPS |
| 09:00 – 10:30 | PRE-CONFERENCE WORKSHOP 1 - The role of functional electrical stimulation in maximising Paralympic athlete health |
| 10:30 - 12:00 | Prof.dr. Thomas Janssen – professor in Rehabilitation Research, Spinal Cord Injury and |
| Rosa 4-5 | Disability Sports, Vrije Universiteit Amsterdam, Reade rehabilitation center and the |
| | Center for Adapted Sports Amsterdam |
| | Ralph Scholten – Physical therapist, Reade rehabilitation center, Amsterdam |
| | Vasilis Tomaras MSc – Human Movement Scientist, Reade rehabilitation center, |
| | Amsterdam |
| | Guido van Werven – Physical therapist, Reade rehabilitation center, Amsterdam |
| 00.00 10.30 | DDC CONFEDENCE WORKSHOP 3. Tasking akhlatas as the Lade Food as the slabely |
| 09:00 – 10:30 | PRE-CONFERENCE WORKSHOP 2 - Testing athletes on the Lode Esseda wheelchair ergometer |
| 10:30 – 12:00 | Sonja de Groot, PhD – Associate professor, rehabilitation center Reade, Amsterdam |
| Rosa 6 | Riemer Vegter, PhD – Assistant professor, Center for Human Movement Sciences, |
| | UMCG, RUG, Groningen |
| | Rick de Klerk, MSc. – PhD student, Center for Human Movement Sciences, UMCG, RUG, |
| | Groningen |
| | |
| 09:00 – 10:30 | PRE-CONFERENCE WORKSHOP 3 - Training the basketball shot using occlusion glasses |
| 10:30 – 12:00 | Raôul Oudejans PhD – Senior researcher, Vrije Universiteit Amsterdam and Amsterdam University of Applied Sciences |
| Calla 1 | Offiversity of Applied Sciences |
| Cana 1 | |
| 10:30 – 12:00 | PRE-CONFERENCE WORKSHOP 4 – The Dutch dream for Paralympic sports |
| Calla 2 | Raymon Blondel – President National Paralympic Committee of the Netherlands |
| | |
| 09:00 – 12:00 | PRE-CONFERENCE WORKSHOP 5 - Statistical learning techniques for Classification |
| Calla 3 | Research (duration: 3 hours) |
| | Rianne Ravensbergen, PhD – Post-doctoral Fellow, IPC Classification Research & |
| | Development Centre for Athletes with Vision Impairment, Vrije Universiteit Amsterdam David Mann, PhD – Associate Professor, Director IPC Classification Research & |
| | Development Centre for Athletes with Vision Impairment, Vrije Universiteit Amsterdam |
| | = 2.2.2.p.m.t.m.c.co.m.t.m.c.co.m.mpa.m.c.m, 1.1.p. c.m.c.co.m.m.c.co.m.acc.d.d.m. |

| | Wednesday 4 September |
|---------------|--|
| 09:00 – 20:00 | Conference Registration |
| | Registration desk, foyer |
| | |
| 09:00 - 12:00 | PRE-CONFERENCE WORKSHOPS |
| | |
| 13:00 – 14:30 | #1 FREE COMMUNICATIONS – Evidence-Based Classification |
| Calla 1-2 | Chairperson: Prof. dr. Lucas van der Woude |
| 13:00 – 13:15 | Development and reliability of a sport specific isometric strength test battery for |
| | para-kayak (#6) |
| | A. Bjerkefors; M. Ekman; J.S. Rosén |
| 13:15 – 13:30 | Relationship between arm impairment, isometric strength and performance in |
| | wheelchair rugby players (#85) |
| | B. Mason; V. Altmann; M. Hutchinson; F. Bettella; N. Petrone; V. Goosey-Tolfrey |
| 13:30 – 13:45 | The relationship between isometric and dynamic leg strength in elite para-cyclists and |
| | its use in para-cycling classification (#77) |
| | J. Liljedahl; C. Nooijen; A. Bjerkefors; T. Arndt |
| 13:45 – 14:00 | Posture-Cognition Dual-Tasking in Elite Athletes with Intellectual Impairment (#115) |
| | R.C. Pineda; D. Van Biesen; R. Krampe; Y. Vanlandewijck |
| 14:00 – 14:15 | Adaptive behaviour related to basketball sport performance in athletes with |
| | intellectual disability – a possible method for quantitative behaviour analysis for |
| | classification (#87) |
| | K. McCulloch; D. Van Biesen; I. Noens; Y. Vanlandewijck |
| 14:15 – 14:30 | Decision making and game performance of elite-basketball players with intellectual |
| | impairment: a step forward for an evidence-based classification system (#116) |
| | I. Polo; J. Pérez-TejeroJ; J. Pinilla; D. van Biesen |
| 13:00 – 14:30 | #2 FREE COMMUNICATIONS – Sociology |
| Calla 3 | Chairperson: Dr. David Howe |
| 13:00 – 13:15 | An Intense Sabbatical: What one mid-career researcher in spinal cord injury has |
| | learned about spinal cord injury since his son acquired one (#147) |
| | S. Tweedy |
| 13:15 – 13:30 | Parenting in the Paralympic Pathway: roles, obstacles and rewards (#14) |
| | J. Coates; P.D. Howe |
| 13:30 – 13:45 | Developmental Trajectories and Training Histories of Canadian and Australian |
| | Paralympic Athletes (#26) |
| | N. Dehghansai; J. Baker; R. Pinder |
| 13:45 – 14:00 | Re-presenting parasport bodies: Disability and the cultural legacy of the Paralympics |
| | (#54) |
| | P.D. Howe; C.F. Silva; L. Misener; M. Silk |

| 14:00 – 14:15 | The Development of Participation of Women in Para sport: A Comparison of Four IPC |
|---------------|--|
| | Sports (#24) |
| | N.A. Dean; N. Scadden; A. Bundon; P.D. Howe |
| 14:15 – 14:30 | Local Bamboo as a Cost-Effective Construction Material for Daily Use Wheelchairs and |
| | Sports Chairs: Increasing Mobility Accessibility for Persons with Disabilities in |
| | Socioeconomically Disadvantaged Settings (#28) |
| | M. Scheffers; F. Doolan; Y. Tuakli-Wosornu; R. Cooper; B. Dapaah |
| | |
| 14:30 – 15:30 | #3 SYMPOSIUM – Mental Health Preparation |
| Calla 1-2 | |
| | The approach of TeamNL to mental health in Paralympic sport. Psychological support |
| | for Paralympic elite athletes and coaches in the Netherlands (#163) |
| | Speakers: P. Wylleman; P. Huybrechtse; S. van Essen |
| | Chairperson: Dr. Raoul Oudejans |
| 14:30 – 15:30 | #4 POSTER SESSION I |
| Foyer | |
| | |
| | Athlete Health and Well-being |
| | - An exploration of the organisational stressors encountered by international |
| | disability footballers (#3) |
| | J.B. Barker; J. Whittingham; M.J. Slater; R. Arnold |
| | - Exploring the Effects of a Single Rational Emotive Behavior Therapy (REBT) |
| | Workshop in Elite Blind Soccer Players (#4) |
| | J.B. Barker; A. Wood; M. Turner; P. Thomson |
| | - Athletic Identity (AI) formation in novice, young adult Para swimmers with |
| | cerebral palsy who have high support needs (#7) |
| | T. Block, E. Enright, E. Beckman, M. Connick, S.M. Tweedy |
| | - The impact of functional classification on competitive anxiety among |
| | wheelchair basketball athletes (#8) |
| | N. Bosma; N.W. van Yperen |
| | - Physical Fitness Status Among Athletes Participating in Primary and |
| | Secondary School Disability Sports Competitions in Kenya (#91) |
| | P. Bukhala; E. Sabiri |
| | - Oral health-related quality of life of athletes with disabilities (#125) |
| | L.R. Davi; L.P.C. Ferruzzi; D.C.B. Lima; D.G. de Freitas; M. Tavares; A.M.C. Prado |
| | - Video analysis of difference in fall characteristics between Wheelchair Rugby |
| | and Wheelchair Basketball tournament (#80) |
| | N. Maeda; Y. Urabe; R. Simizu; T. Kobahashi; J. Sasadai |
| | - What are the psychological superiorities of Paralympic Athletes? (#95) |
| | A. Mousavi; M. VaezMousavi |

- Sleep quantity and quality in international wheelchair rugby players across a competitive period of the season (#96)

C. Murphy; V. Tolfrey; I. Hartescu

- Interference of breathing in the efficiency of screening at programming stages with the help of upper limbs (#137)

M.F.F. Vara; R.N. Cordeiro; K.S. Urbinati; E. Scheeren; P. Nohama; R. Menslin

Socio-Economic Determinants of Paralympic Participation and Success

- The comparison of how sport for people with intellectual impairment is organised across 10 European Countries (IDEAL project) (#149)

D. Van Biesen; A. Marin-Urquiza; J. Kerremans

- Birth of a Para-Sports Nation? An evaluation of Brazilian societal perceptions of disability, para- sports and related milestones during its rise to Paralympic prominence since the start of the 21st century (#36)

R.A. Flindall; R. Rodrigues Pantoja

- A study on intangible legacy of the Paralympics Focus on the recognition of the words referring to the Paralympics (#93)

M. Fujita

- Moving Beyond the 3%: Building the Paralympic Pathway through Community-Based Research (#101)

T. Konoval; J. O'Rourke; A. Bundon; S. Lawson

 Analysis of the organizational structure of National Governing Bodies of Disability Sport in Japan (#66)

K. Obuchi; M. Fujita; M. Saito; M. Kawanishi

- Sustainability strategy for the high performance of the Brazilian Paralympic Committee for the 2017/2012 cycle (#10)

D.R. Calegari; R. Pereira de Souza; J. Fernandes Filho; I. Brandão Vieira; M. Conrado de Oliveira

- Barriers to Sports Participation amongst Youth Refugees with Disabilities in Kenya: A Case of Kakuma Refugee Camp (#92)

E. Sabiri; P. Bukhala

Female Athletes in the Paralympic Movement: Past, Present and Future (#25)
N. Scadden; N.A. Dean; A. Bundon; P.D. Howe

From Social Barriers to Paralympic Participation to Socio-Economic Emancipation for Paralympic Success. An empirical analysis of the Cameroonian context (#142)

E. Songa Bidjocka

Evidence-based Classification

Time Motion Characteristics and Physiological Responses of Para-Footballers with Cerebral Palsy in Two Small Sided Games (#50)

M. Henríquez; A. Iturricastillo; R. Reina

- Expert consensus statement to guide evidence-based classification of athletes for para taekwondo: A Delphi Study (#102)
 - D. M. O'Sullivan; O. Hansson
- The basis for the development of a point-based classification system in CP-Football (#123)
 - R. Reina
- Objective measures of impaired lower limb coordination in RaceRunning athletes with Cerebral Palsy (#126)
 - C. Riddle; M. Verheul; S. Psycharakis; S. Ainslie; J. Whitlam
- Evaluation of impaired balance in para-athletes using smartphones (#128)
 A. Roldán; C. Toledo; D. Barbado; J.M. Sarabia; C. Caballero; R. Reina
- Evidence-based classification in para-athletics: Acoustic reaction in athletes with cerebral palsy (T35-T38) (#11)
 - J.P.C. Souza; C.W. Oliveira Filho; L.G. Santos; P.S. Freitas; M. Arruda

<u>Integrative Approaches to the Preparation of Paralympic Athletes</u>

- The wheelchair tennis serve motion pattern: a case study exploring differences between classifications (#17)
 - C. D'Angeli; M. King; B. Mason; V. Goosey-Tolfrey
- The effect of a weight control strategy in Para powerlifting performance using multivariate analysis (#49)
 - S. Hatanaka; Y. Kojima; T. Kinugasa
- Efficient brain activity during grip force control in individuals with complete spinal cord injury (#97)
 - T. Nakanishi; H. Kobayashi; K. Nakagawa; H. Obata; K. Kudo; K. Nakazawa
- The Effects of Warm-up on Simulated Wheelchair Rugby Game play and Thermoregulation (#100)
 - T. O'Brien; S. Briley; B. Mason; V. Goosey-Tolfrey
- Differences in propulsion kinematics of highly trained wheelchair rugby players after a fatiguing bout of exercise (#105)
 - Y. T. Oh; B. Mason; S. Briley; T. O'Brien; V. Altman; V. Goosey-Tolfrey
- Paralympic Sports Training Center: a proposal for a Paralympic sports service focused on high performance (#34)
 - R. Pereira de Souza; I. Brandão; J. Fernandes Filho

Technology and Engineering

- Development of built-in inertial measurement unit for kinematic analysis in the boccia ball throwing (#19)
 - T.L.F. Souza; S. Peixoto; B. Guedes; M. Jancy Bezerra; Edgard
- MY PARALYMPIC SPORT App (#43)
 - D. G. de Freitas; L. R. Davi

| | - Does the Apple Watch® provide an accurate estimate of Push Counts for |
|---------------|---|
| | People Using Manual Wheelchairs? (#64) |
| | K.S. Karinharju; A.M. Boughey:,S.M. Tweedy; K.M. Clanchy; S.G. Trost; S.R. Gomersall |
| | - A novel computer-controlled servo-driven dual-roller handrim wheelchair |
| | ergometer - a technical note (#23) |
| | R. de Klerk; R.J.K. Vegter; H.E.J. Veeger; L.H.V. van der Woude |
| | |
| | Other: |
| | - Accessibility to Sports |
| | Accessibility as a Paralympic legacy: A comparative case study of sports |
| | infrastructure in post- event Japan and Brazil (#153) |
| | A.P. van der Veere; S. Geijer |
| | - Applied biomechanics |
| | Anthropometric Characteristics of Iranian Males and Females Athletes with |
| | Disabilities (#81) |
| | M.R. Mahmoudkhani; M. Doosti; S. Hasani |
| | - <u>Athlete and performance</u> |
| | A head movement strategy of blind footballers during trapping an |
| | approaching ball (#89) |
| | T. Mieda; M. Saito; M. Kokubu |
| | - Athlete training and evaluation |
| | Correlation between body composition, VO2peak, and sprint times in high |
| | performance wheelchair rugby players (#83) |
| | L.A. Malone; B. Kane; E. Moore; K. Miller |
| | - <u>Body Composition</u> |
| | Body composition assessment in an athlete with a congenital limb deficiency |
| | (#47) |
| | N. Hakamada; K. Shitara; Y. Kubo; Y. Ishige |
| | - <u>Nutrition</u> |
| | Total energy expenditure and physical activity level of Japanese athletes with |
| | spinal cord injury, as measured using the doubly labeled water method (#94) |
| | K. Motonaga; Y. Yamada; T. Yoshida; E. Kondo; T. Nakagata; H. Sagayama; M. |
| | Yoshino; N. Hakamada; M. Yamamoto; H. Takahashi; M. Hangai; T. Ogata |
| | - <u>Sports injury</u> |
| | Video analysis of fall patterns of wheelchair basketball player by differences |
| | in classification of disability (#140) |
| | R. Shimizu; Y. Urabe; J. Sasadai; N. Maeda |
| | |
| 15:30 – 16:00 | Coffee Break |
| Foyer | |
| | |
| | |

| 16:00 – 17:30 Calla 1-2 | #5 INVITED SYMPOSIUM – Data Science to Optimize Sport Performance |
|----------------------------|--|
| | Speakers: Joost Kok (NED), Ryuji Hiramatsu (JPN), Laura Gastaldi (ITA) |
| | Chairperson: Ms. Debbie Low |
| 16:00 - 17:30 | #6 FREE COMMUNICATIONS – Athlete Health and Well-Being |
| Calla 3 | Chairperson: Dr. Sonja de Groot |
| 16:00 – 16:15 | Why are athletes bringing injuries into the Games? The risk profiles associated with |
| | the high pre-competition period injury rate at the Rio 2016 Paralympic Games: a |
| | multivariate analysis of 51,198 athlete days (#131) |
| | P. Runciman; E. Jordaan; W. Derman |
| 16:15 – 16:30 | A comparison of injuries sustained during the Sochi 2014 and Pyeongchang 2018 |
| | Paralympic Winter Games: results of the consecutive web-based Paralympic injury |
| | and illness surveillance study (#27) |
| | W. Derman; P. Runciman; E. Jordaan; N. Webborn; C. Blauwet |
| 16:30 – 16:45 | Incidence of sports-related injuries and illnesses in Paralympic athletes – a |
| | prospective 52-week study (#30) |
| | K. Fagher; Ö. Dahlström; J. Jacobsson; T. Timpka; J. Lexell |
| 16:45 – 17:00 | The relationship between shoulder ultrasound abnormalities, physical examination |
| | findings, and pain in wheelchair athletics (Track v Field) (#159) |
| | N. Webborn; W. Derman; C. Blauwet; D. Morrissey; J. Chakraverty |
| 17:00 – 17:15 | Preserving shoulder health in wheelchair users: The role of wheelchair propulsion |
| | induced fatigue and capacity (#9) |
| | F.M. Bossuyt; U. Arnet; A. Cools; M.L. Boninger |
| 17:15 – 17:30 | Relationship between shoulder pain assements and wheelchair basketball |
| | performance (#117) |
| | I. Polo; García-Gómez, S; Pérez-Tejero, J; Pinilla, J; Barakat, R. |
| | |
| 17:45 – 19:00 | Opening Ceremony including keynote IPC Scientific Award Winner |
| Calla 1-3 | |
| 19:00 – 20:00 | Opening Reception |
| Foyer and | |
| Rosa 4-6 | |

| | Thursday 5 September |
|---------------|--|
| 08:00 - 17:00 | Conference Registration |
| | Registration desk, foyer |
| 08:15 - 09:10 | #7 KEYNOTE ADDRESS |
| Calla 1-3 | "Parasport Development from grassroots to sporting spectacle: A view from Africa" |
| | Prof. Dr. Leslie Swartz, University of Stellenbosch (RSA) |
| | Chairperson: Dr. David Howe |
| | |
| 09:10 – 09:30 | Short break |
| Foyer | |
| | |
| 09:30 – 11:00 | #8 FREE COMMUNICATIONS – Evidence-Based Classification |
| Calla 1-2 | Chairperson: Dr. David Mann |
| 09:30 – 09:45 | Classification of Athletes with Coordination Impairments in Wheelchair Rugby (#150) |
| 22.15.10.00 | K. van Breukelen; E. Lammers |
| 09:45 – 10:00 | Is possible the linkage of performance determinants in team para-sports with |
| | classification purposes? An example applied in CP-Football (#122) |
| 10.00 10.15 | R. Reina; D. Castillo; A. Iturricastillo; C. Toledo; J. Yanci |
| 10:00 – 10:15 | The new kid on the World Para Athletics block: The evidence for classification |
| | measures to be included in RaceRunning classification (#151) |
| 10.15 10.00 | M.L. van der Linden; O. Corrigan; N. Tennant; M.H.G Verheul |
| 10:15 – 10:30 | RaceRunning Classification within World Para Athletics: A Consensus Statement |
| | (#156) |
| 10:30 – 10:45 | M.H.G. Verheul; M.L. van der Linden; N. Tennant; H.J.C. Ravensbergen |
| 10:30 - 10:45 | Minimal Impairment Criteria in Para Table Tennis for Standing Players with Physical |
| | Impairments: Evidence-Based Support for Revisions (#162) |
| 10:45 – 11:00 | S.K. Wu; Y. Li; P. Perez; J. Stefak |
| 10.45 – 11.00 | The influence of arm and ski pole during alpine skiing (#160) D. Wedeking; M. Swarén; J. Danvind; M. Lund Ohlsson |
| | D. Wedeking, IVI. Swaren, J. Danvind, IVI. Lund Onisson |
| 09:30 – 11:00 | #9 SYMPOSIUM – Beat the Heat |
| Calla 3 | ins string esternic freat |
| | Speakers: Hein Daanen (Vrije Universiteit Amsterdam, NED), Liz Broad (US Paralympics, |
| | USA), Tatsuru Ibusuki (Japan Para Athletics and World Para Athletics, JPN), Peter van |
| | der Vliet (International Paralympic Comittee, GER) |
| | Chairperson: Prof. dr. Thomas Janssen |
| | · |
| 11:00 – 11:30 | Coffee Break |
| Foyer and | |
| Rosa 4-6 | |
| | |

| 11:30 – 13:00 | #10 INVITED SYMPOSIUM – Equipment & Technology in Paralympic sports and |
|---------------|---|
| Calla 1-2 | applied towards cycling and handcycling |
| | Speakers: Bryce Dyer (GBR), Sonja de Groot (NED), Barbara Springer (USA) |
| | Chairperson: Prof. dr. Lucas van der Woude |
| 11:30 - 13:00 | #11 FREE COMMUNICATIONS – Sociology |
| Calla 3 | Chairperson: Dr. Ivo van Hilvoorde |
| 11:30 – 11:45 | Fit for Optimal Performance? Creating More Inclusive Sport Systems through Policy, |
| | Funding, and Evaluation Frameworks (#109) |
| | C. Pentifallo Gadd; A. Hammond; A. Bundon; S. Lawson; T. Konoval |
| 11:45 – 12:00 | "Too Many Chairs at the Table": The Athlete Perspective of Inclusion/Exclusion in |
| | Paralympic Sport (#119) |
| | N. Quinn; L. Misener |
| 12:00 – 12:15 | The implementation of disability inclusive sport policy by sporting organizations in |
| | British Columbia, Canada (#48) |
| | A. Hammond; C. Pentifallo Gadd; A. Bundon; T. Konoval |
| 12:15 – 12:30 | Paralympic Sports as content in physical education sessions: the educative program |
| | "Inclusive Sports in School" in Spain (#104) |
| | C. Ocete; M.Z. Ibarra; J. Coterón; J. Pérez-Tejero |
| 12:30 – 12:45 | The Integration of disability sport into mainstream sports clubs, the Dutch case (#154) |
| | C. van Lindert |
| 12:45 – 13:00 | Questionnaire development to assess inclusion processes in badminton sport entities |
| | at European level: the "Badminton for All" project (#46) |
| | A. Gutiérrez-Suárez; C. Ocete; J. Coterón; J. Pérez-Tejero |
| | |
| 13:00 – 14:30 | Lunch |
| Foyer and | |
| Rosa 4-6 | |
| | |
| 14:30 – 16:00 | #12 INVITED SYMPOSIUM - From A to Z in Classification Research |
| Calla 1-2 | |
| | Speakers: David Mann (NED), Emma Beckman (AUS), Scott Field (RSA) |
| | Chairperson: Prof. dr. Anne Hart |
| 14:30 – 16:00 | #13 FREE COMMUNICATIONS – Athlete Preparation |
| Calla 3 | Chairperson: Dr. Maarten Moen |
| 14:30 – 14:45 | Variability in pacing strategies along race performance of swimmers with intellectual |
| | impairment at the Paralympic Games (#111) |
| | J. Pérez-Tejero; A. Navandar; A. Almena; S. Veiga |
| 14:45 – 15:00 | Evaluating the anaerobic responses to physical exercise in trained male Paralympic |
| | athletes with locomotor impairment (#12) |
| | V. Cavedon; F. Alviti; C. Milanese; M. Bernardi |

| 15:00 – 15:15 | Effect of six weeks of high intensity strength training on power and speed |
|---------------|--|
| | development of top Brazilian Paralympic sprinters (#78) |
| | T. F. Lourenço; L. G. dos Santos; A. Veríssimo; C. Winckler |
| 15:15 – 15:30 | Spinal cord injury and training status impact the differentiated RPE response to |
| | incremental wheelchair propulsion (#56) |
| | M.J. Hutchinson; J. Kilgallon; C.A. Leicht; V.L. Goosey-Tolfrey |
| 15:30 – 15:45 | Race performance trajectories of Tandem Para-cyclists (#68) |
| | T. Kinugasa; R. Hiramatsu |
| 15:45 – 16:00 | The influence of equimolar nitrate doses from beetroot juice and sodium nitrate on |
| | upper and lower body exercise in paralympic athletes and able-bodied men (#37) |
| | J.L. Flueck; A. Gallo; P. Bracher; C. Perret |
| | |
| 16:00 – 19:00 | Side Event |
| Sporthallen | Workshop Wheelchair Rugby/Boccia |
| Zuid | |
| 16:00 – 19:00 | Side Event |
| Amsterdam | Visit to Friendship Sports Center |
| Noord | |
| | |
| 21:00 – 23:00 | Informal Networking Opportunity over Drinks (optional) |
| Amsterdam | |
| Inner City | |

| Friday 6 September | |
|--------------------|---|
| 08:00 - 17:00 | Conference Registration |
| | Registration desk, foyer |
| 08:15 - 09:10 | # 14 KEYNOTE ADDRESS |
| Calla 1-3 | "Fair Play Play it Fair" |
| | Prof. Dr. Marjan Olfers, professor Sports & Law, Vrije Universteit Amsterdam (NED) |
| | Chairperson: Dr. Marije Deutekom |
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| 09:10 - 09:30 | Short break |
| Foyer | |
| | |
| 09:30 – 11:00 | #15 FREE COMMUNICATIONS - Athlete Health and Well-Being |
| Calla 1-2 | Chairperson: Prof. dr. Gudrun Doll-Tepper |
| 09:30 – 09:45 | Short-term mental health effects of training for the HandbikeBattle and associations |
| | with physical capacity (#72) |
| | I. Kouwijzer; S. de Groot; C.M.C. van Leeuwen; L.J.M. Valent; C.F. van Koppenhagen; |
| | L.H.V. van der Woude; M.W.M. Post |
| 09:45 – 10:00 | Incidence of head injuries and concussion among Swedish Paralympic athletes – a 52- |
| | week prospective study (#76) |
| | J. Lexell; G. Lovén; K. Fagher |
| 10:00 – 10:15 | The relationship between disability-related identities and well-being in elite para |
| | athletes (#16) |
| | C. Cunningham; J. B. Barker; M. J. Slater |
| 10:15 – 10:30 | Sleep habits, quality and chronotype of Paralympic athletes in the preparation for |
| | Tokyo 2020 Games (#35) |
| | O. Fliess Douer |
| 10:30 – 10:45 | Psychological Preparation for Paralympians (#84) |
| | J. Martin |
| 10:45 – 11:00 | Non-Accidental Harms in Athletes with Impairment: A State-of-the-Art Review (#145) |
| | Q. Sun; Y. Tuakli-Wosornu; M. Gentry; K. Ona-Ayala; F. Doolan; B. Caldwell; T. Ottesen; |
| | N. Naushad; P. Huang; S. Kirby |
| 09:30 – 11:00 | #16 FREE COMMUNICATIONS - Athlete Preparation |
| Calla 3 | Chairperson: Ms. Debbie Low |
| 09:30 – 09:45 | Relationship between shoulder range of motion and specific clinical test before and |
| | after shoulder home-based exercise program in elite wheelchair basketball players |
| | (#40) |
| | S. García-Gómez; J. Pérez-Tejero; R. Barakat |

| performance development (#113) | |
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| | |
| C. Perret | |
| 10:00 – 10:15 The road to the silver medal at 2016 Rio Paralympic Games: game related statisti | С |
| analysis of the Spanish wheelchair basketball male team (#110) | |
| J. Pérez-Tejero, J. Pinilla, J. Aceituno | |
| 10:15 – 10:30 Wheelchair mobility performance of elite wheelchair tennis players during four fi | eld |
| tests: inter-trial reliability and construct validity (#127) | |
| T. Rietveld; R.J.K. Vegter; R.M.A. van der Slikke; A.E. Hoekstra; L.H.V. van der Woud | de; S. |
| de Groot | |
| 10:30 – 10:45 Crank fore-aft position affects economy and technique in trained recumbent | |
| handcyclists (#144) | |
| B. Stone; B.S. Mason; M.B. Warner; V.L. Goosey-Tolfrey | |
| 10:45 – 11:00 Evaluating the impact of sport activity on body composition in subjects with | |
| physical impairments (#13) | |
| V. Cavedon; C. Zancanaro; C. Milanese | |
| | |
| 11:00 – 11:30 Coffee Break | |
| Foyer and Rosa | |
| 4-6 | |
| | |
| 11:30 – 13:00 #17 INVITED SYMPOSIUM - The Long-Term Impact of High Quality Social Research | h |
| Calla 1-2 | |
| Speakers: Karen DePauw (USA), Stephanie Wheeler (USA), David Howe (CAN) | |
| Chairperson: Dr. Ivo van Hilvoorde | |
| 11:30 – 13:00 #18 FREE COMMUNICATIONS – Evidence-Based Classification | |
| Calla 3 Chairperson: Dr. David Mann | |
| 11:30 – 11:45 An investigation of classifiers' perceptions of working with athletes with a disabil | ity |
| (#75) | |
| J. Lawson; J. Turnnidge; M. Habash; M. Watson; A. Latimer-Cheung | |
| 11:45 – 12:00 "We know who is a cheat and who is not. But what can you do?": Athletes' | |
| Perspectives on Classification in Visually Impaired Sport (#118) | |
| B. Powis; J. Macbeth | |
| 12:00 – 12:15 Getting a grip on classification in judo: Developing evidence-based classification f | or |
| judo athletes with vision impairment (#74) | |
| K. Krabben, R. Ravensbergen, D. Mann | |
| 12:15 – 12:30 When does vision impairment limit performance in swimming – towards evidence | e- |
| based minimum impairment criteria (#121) | |
| R.H.J.C. Ravensbergen; L. de Wit, I. Wouters; D.L. Mann | |

| 12:30 – 12:45 | Exploration of the Minimum Visual Impairment Criteria for Para Alpine Skiing using |
|----------------|---|
| | Simulated Vision Impairments (#18) |
| | K. Dalton; A. Stalin |
| 12:45 – 13:00 | Exploration of the Minimum Visual Impairment Criteria for Para Nordic Skiing using |
| | Simulated Vision Impairments (#143) |
| | A. Stalin; K. Dalton |
| | |
| 11:00 – 11:30 | Lunch |
| Foyer and Rosa | |
| 4-6 | |
| | |
| 14:30 – 16:00 | #19 INVITED SYMPOSIUM – Prevention of Injury and Protection of the Health of the |
| Calla 1-2 | Athlete |
| | Speakers: Willem van Mechelen (NED), Mohammad VaezMousavi (IRI), Anja |
| | Hirschmueller (GER) |
| | Chairperson: Prof. dr. Wayne Derman |
| 14:30 – 16:00 | #20 FREE COMMUNICATIONS – Technology and Engineering |
| Calla 3 | Chairperson: Prof. dr. Rory Cooper |
| 14:30 – 14:45 | A Novel Cost-Efficient Wheelchair Training Roller for Persons with Disabilities in |
| | Economically Disadvantaged Settings: EasyRoller (#29) |
| | F. Doolan; M. Scheffers; Y. Tuakli-Wosornu; R. Cooper; J. Buckley |
| 14:45 – 15:00 | Development and first results of the Wheelchair ExercisE and Lifestyle Study |
| | (WHEELS) app: a mobile lifestyle application to stimulate physical activity, healthy |
| | diet and relaxation in wheelchair users with spinal cord injury or lower limb |
| | amputation (#53) |
| | J.F.M. Holla; L. te Loo; S. Dankers; E. Nijhuis; D. Hoevenaars; H. Houdijk; T.W.J. Janssen; |
| | M. Deutekom |
| 15:00 – 15:15 | The Alberta Adaptive Contact (AACT) Database – Geospatial Tracking of Accessible |
| | Resources Available to an Athlete / Participant (#138) |
| | O. Sawicki |
| 15:15 – 15:30 | Wheelchair Mobility Performance enhancement by changing wheelchair properties; |
| | what is the effect of grip, seat height and mass? (#152) |
| | R.M.A van der Slikke; A.M.H. de Witte; M.A.M. Berger; D.J.J. Bregman; H. E.J. Veeger |
| 15:30 – 15:45 | The differences between synchronous and asynchronous submaximal handcycling in |
| | light of practice: effects on physiology and force production (#73) |
| | C. Kraaijenbrink; R.J.K. Vegter; H. Wagner; L.H.V. van der Woude |
| 15:45 – 16:00 | Validity of two wheelchair-mounted devices for measuring wheelchair speed and |
| | distance during wheelchair-based activities (#63) |
| | K.S. Karinharju; L.T. Yeo; S.R. Gomersall; K.M. Clanchy; S.G. Trost; S.M. Tweedy |
| | |
| | |

| 16:00 - 18:00 | #21 POSTER SESSION 2 and Exhibition |
|----------------|--|
| Foyer and Rosa | |
| 4-6 | |
| | Athlete Health and Well-being |
| | - Shoulder muscle onset activation patterns in wheelchair basketball players |
| | compared with non-wheelchair users (#41) |
| | S. García-Gómez; M. Hoozemans; D.J. Veeger; J. Pérez-Tejero |
| | Criterion validity of a field-based assessment of aerobic capacity in |
| | wheelchair rugby athletes (#146) |
| | V.L. Goosey-Tolfrey; S. de Groot; K. Tolfrey; T.A.W. Paulson |
| | Energy expenditure in rest and during wheelchair activities in daily life in |
| | people with chronic spinal cord injury (#51) |
| | D.P. Hoevenaars; Y. Ma; H.L.D. Horemans; J. Holla; R.G. Memelink; P.J.M. Weijs; |
| | R.E. De Gouveia da Costa Cachucho; J.B. Bussmann; M. Deutekom; W. Kraaij; S. |
| | de Groot; T.W.J. Janssen |
| | - Prevalence in painful shoulder among wheelchair marathon athletes (#58) |
| | T. Ibusuki; Y. Kamijo; F. Tajima |
| | - Injury epidemiology and preparedness in Para powerlifters at the Rio 2016 |
| | Paralympic Games: an analysis of 1410 athlete-days (#107) |
| | O. Ayala; P. Huang; X. Li; W.E. Derman; J. Kissick; N. Webborn; C. Blauwet; J. |
| | Stomphorst; Y.A. Tuakli-Wosornu |
| | - Exploration of Differences in Sources of Confidence for Team and Individual |
| | Division I Collegiate Able-Bodied Athletes and Paralympic Athletes in the |
| | United States (#39) |
| | W. Lawrence; A.J. Forber-Pratt; E. Kaiser |
| | - Can the anthropometric method detect differences in regional and percent |
| | body fat of athletes with spinal cord injury? (#45) |
| | L.I.G.L. de Oliveira; S.F.M. de Oliveira; M. da Cunha Costa |
| | - Evaluation of Dietary Supplement Use in Wheelchair Rugby Athletes (#79) |
| | R.F. Madden; J. Shearer; D. Legg; J.A. Parnell |
| | - Training and Competition Injury and Illness Surveillance Using a New |
| | Paralympic Surveillance Classification (#90) |
| | S. Miller; J. Wass; C. Lander; T. Paulson |
| | - Evaluation of Dietary Supplement Use in Wheelchair Rugby Athletes (#108) |
| | J.A. Parnell; R.F. Madden; J. Shearer; D. Legg |
| | - Comparison of falling frequency by classification and wheelchair type in |
| | wheelchair rugby (#136) |
| | J. Sasadai; Y. Urabe; R Shimizu; T. Kobayashi; N. Maeda |
| | - Characteristics of physic, static posture, and shoulder range of motion in |
| | Japanese elite para swimming athletes with unilateral congenital upper limb |
| | deficiency. A case series study (#141) |
| | K. Shimura; K. Koizumi; T. Yoshizawa; T. Aoki |

 Increasing core body temperature of para-sports athletes during typical training session in a hot environment in Japan: Three cases of a wheelchair tennis player, a wheelchair badminton player, and a congenital one-forearmdefect badminton player (#148)

Athlete and Coach Education

S. Ueki

- Introducing the Para Coach Project (2018-21) and preliminary workforce data (#55)
 - T. Huntley; A. Whitehead; A. Ryrie; C. Cushion
- Effects of a backrest and vertical bar in seated shot put and javelin throws (#65) K. Kawabata; T. Ibusuki; C. Nakamura; N. Kitabayashi; S. Kemmochi; H. Makita; K. Seo; T. Mitsui; Y. Kamijo; F. Tajima
- Analyzes of Participants of the "Citizen Athletes Program" (#135)
 V. Santos Oliveira; V. Severino Neto; L.G.F. Santos; C. Winckler

Evidence-based Classification

- Expert consensus statement to guide evidence-based classification of visionimpaired athletes in track athletics: a Delphi study (#1)
 - P.M. Allen; R. Dolan; H. Croxall; R. Ravensbergen; A. Brooks; D.L. Mann
- Time-motion analysis in male judo athletes with vision impairment: analysis of the Rio 2016 Paralympic Games (#71)
 - R. Kons; K. Krabben; D. Mann; D. Detanico
- Handcycling classification: A first look into the current system (#22)
 - R. Muchaxo; S. De Groot; T. Janssen; L. Van der Woude; C. Nooijen
- Sport-specific Classification for Football 5-A-Side: A Three Phase Method to Establish the Minimum Impairment Criteria (#132)
 - O.R. Runswick; H.J.C. Ravensbergen; D.L. Mann; P.M. Allen; N. Datson; P. Northeast; S. Blacker; S. Myers
- Initial Steps To The Development Of An Evidence Based Classification System In Wheelchair Fencing (#157)
 - A. Villiere; E. Mashkovskiy

Integrative Approaches to the Preparation of Paralympic Athletes

- Thermography applied in sitting volleyball (#2)
 - M.C. Haiachi; H. Almeida Júnior; A.P. Lima
- Classification significantly impacts match load: implications for practice using the example of Visually Impaired cricket (#57)
 - M.J. Hutchinson; V.L. Goosey-Tolfrey

- An evaluation of embedded sport science support within the daily training environment of a Paralympic wheelchair rugby athlete (#67)
 - B. Kean; L. Hogarth; B. Burkett
- Attempt to evaluate gross upper extremity muscle strength in overhead position for para swimming athletes with unilateral congenital upper limb deficiency. A development of upper extremity prone push test (#69)
 - K. Koizumi; K. Shimura; T. Yoshizawa; T. Aoki
- Goalball game Effect's control during a preparation for World Championships (#161)
 - C. Winckler; T. Lourenço; A. Tossin, A. Tramp; L.G.T.F. Santos

Technology and Engineering

- Performance and risk of injury during manual wheelchair propulsion with a tennis racket (#31)
 - M. Astier; I. Alberca; F. Chénier; E. Watelain; J. M. Vallier; D. Pradon; A. Faupin
- Sprint speed and propulsion asymmetry in wheelchair rugby (#32)
 S. Bakatchina; D. Pradon; M. Astier; T. Weissland; A. Faupin
- Comparison of the MMG signal in the assessment of spasticity between patients with supraspinal lesions and spinal cord injuries - Preliminary studies (#33)
 - M. de Fátima Fernandes Vara; E. da Luz dos Santos; C. Diehl Nogueira, E. Krueger; Guilherme Nunes Nogueira Neto; P. Nohama
- Crank fore-aft position alters the distribution of work over the push and pull phase during synchronous recumbent handcycling of able-bodied participants (#155)
 - R.J.K. Vegter; B.S. Mason; B. Sporrel; B. Stone; L.H.V. van der Woude; V.L. Goosey-Tolfrey

Socio-Economic Determinants of Paralympic Participation and Success

- Mobilizing United Nations Human Rights instruments for All in and through Sport (#86)
 - G. Mayr; G. Masdeu-Yelamos, C. Carty, S. Carney
- The Statistical Analysis of the Medal Ratio At the Olympic Games and the Paralympic Games from a Socio-Economic data (#158)
 - T. Watari; N. Ideguchi

<u>Other</u>

- Accessibility to Sports

Accessibility as a Paralympic legacy: A comparative case study of sports infrastructure in post- event Japan and Brazil (#42)

A.P. van der Veere; S. Geijer

- Athlete Development Pathway

Development trajectories of Paralympic medalists (#70)

Y. Kojima; S. Hatanaka; R. Hiramatsu; T. Kinugasa

- Communication of Paralympic Goalball athletes

Elite Blind Athletes' Perceptions of the Role of Eye Contact in the Sport of Goalball (#60)

E.B. Jenks; A.B. Jenks

Educative setting

The promotion of Paralympic sports in the educative settings: the educative program "Inclusive Sports in School" (#103)

C.Ocete; J. Pérez-Tejero; Polo,I.; M.Z. Ibarra

- Inclusive fitness facilities

Barriers and facilitators for fitness centre participation among adult people with or without physical disabilities: A systematic scoping review (#98)

H. Nikolajsen; L. Fleng Sandal; C. Juhl; J. Troelsen; B. Juul-Kristensen

- <u>Inclusive para-sports; Inclusion in Physical Education...</u>

Attitudes' change towards different impairments using three non-competitive forms of football/soccer (#112)

A. Pérez-Torralba; S. González-Víllora; R. Reina; M.J. Sierra-Díaz

Novel Initiatives: Paralympic Education and Awareness

The Impact of a Paralympic Education and Awareness Intervention on University Student Attitudes Toward Inclusive Sport and Fitness (#88)

C. McKay; J. Yeon Park

- Nutrition

Energy and fluid intakes in Japanese Paralympic alpine skiers during the competition period (#164)

M. Yoshino; N. Hakamada; K. Motonaga; Y. Ishige

Paralympic Disparities in Media Coverage

Media Coverage of the Paralympics: Can Instagram Fix the Disparity? (#134)

D. Saenz; J. Lou

- Physiology and performance

Age-related changes in para and wheelchair racing athlete's performances (#139)

J. Schipman; P. Gallo; A. Marc; J. Antero; J. Toussaint; A. Sedeaud; A. Marck

Quality of life in athletes with disabilities

Influence of an adapted physical activity program on quality of life in participants with physical disabilities from a Chilean rehabilitation center (#15)

M. Cornejo; M. Henríquez; J. Henríquez; T. Durán; N. Rozas

- <u>School Paralympics evaluation</u>

Evolving the athletics in the Brazilian school Paralympics (#20)

| | T.L.F. Filgueira Souza; M.J. Jancy Bezerra; S. Peixoto; D. Roberto; J. Irineu; I. Brandão; B. Guedes; Edgard |
|---------------|--|
| | - <u>Sport Policy for athlete health</u> |
| | The comparative study of sport policy for athlete health in the Paralympic |
| | Movement: Japan and Korea (#61) |
| | K. Jung; D.M. Kim; J.W. Lee; F. Tajima |
| 19:00 – 23:00 | GALA DINNER (additional fee) |
| | Calla 1-3 |

| Saturday 7 September | | |
|----------------------|---|--|
| 08:00 - 14:00 | Conference Registration | |
| | Registration desk, foyer | |
| 08:15 - 09:10 | #22 KEYNOTE ADDRESS | |
| Calla 1-3 | "The past, present and future of Paralympic Sports Medicine" | |
| | Prof. Dr. Nick Webborn, Clinical Professor of Sport and Exercise Medicine, School of | |
| | Sport and Service Management, University of Brighton and Sports Medicine lead, | |
| | Centre for Sport and Exercise Science and Medicine (GBR) | |
| | Chairperson: Prof. dr. Gudrun Doll-Tepper | |
| | | |
| 09:10 - 09:30 | Short break | |
| Foyer | | |
| 09:30 – 10:30 | #23 FREE COMMUNICATIONS - Athlete Health and Well-Being | |
| Calla 1-2 | Chairperson: Prof. dr. Wayne Derman | |
| 09:30 – 09:45 | Modifiable atherosclerotic cardiovascular risk factors in Paralympic athletes with a | |
| 05.50 05.45 | locomotor impairment: prevalence and relationship with aerobic fitness and sport | |
| | type (#5) | |
| | M. Bernardi; E. Cavarretta; P.G. Curatulo; D. Dante; F. Parisi; R. Lanzano; M.R. Squeo; | |
| | P.E. Adami; A. Spataro; A. Pelliccia | |
| 09:45 – 10:00 | Differences in body composition in various wheelchair sports (#38) | |
| | J.L. Flueck | |
| 10:00 – 10:15 | A relationship between retiring rate and ambient temperature during the past 14 | |
| | years of Oita International Wheelchair Marathon Race (#62) | |
| | Y. Kamijo; T. Mitsui; T. Ibusuki; F. Tajima | |
| 10:15 – 10:30 | Noncarious cervical lesions, cervical dentin hypersensitivity and gingival recession: | |
| | prevalence, risk factors and quality of life in athletes with disabilities (#124) | |
| | L.R. Davi; D.C.B. Lima; L.P.C. Ferruzzi; I.O. Cardoso; D.G. de Freitas; D.C. Mendes; P.V. | |
| | Soares | |
| 09:30 - 10:30 | #24 FREE COMMUNICATIONS – Technology and Engineering | |
| Calla 3 | Chairperson: Prof. dr. Rory Cooper | |
| 09:30 - 09:45 | The effect of prosthetic alignment on prosthetic and total leg stiffness while running | |
| | with simulated running-specific prosthesis (#44) | |
| | A. Groothuis; H. Houdijk | |
| 09:45 – 10:00 | Putting the best foot forward – a randomised controlled cross-over trial investigating | |
| | functional capacity in South African lower limb amputees (#130) | |
| | P. Runciman; J. Cockroft; W. Derman | |
| 10:00 – 10:15 | Using instrumented Running Specific Prostheses during sprinting and long jumping | |
| | for performance assessment of elite Paralympic athletes (#114) | |

| | N. Petrone; G. Costa; G. Foscan; R. Boekestijn; G. Luca Migliore; A.G. Cutti |
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| 10:15 - 10:30 | Estimation of muscle work in cross-country sit-skiing (#106) |
| | M. Lund Ohlsson; J. Danvind; L.J. Holmberg |
| | |
| 11:00 - 11:30 | Coffee Break |
| Foyer and | |
| Rosa 4-6 | |
| | |
| 11:00 – 12:30 | #25 INVITED SYMPOSIUM – Sport Psychology |
| Calla 1-2 | |
| | Speakers: John van de Kamp (NED), Raoul Oudejans (NED), Sascha Haans (NED) |
| | Chairperson: Dr. Peter van de Vliet |
| 11:00 – 12:30 | #26 FREE COMMUNICATIONS – Evidence-Based Classification |
| Calla 3 | Chairperson: Prof. dr. Anne Hart |
| 11:00 – 11:15 | Tethered swim performance in Para swimmers with physical impairment (#52) |
| | L. Hogarth; B. Burkett; C. Payton |
| 11:15 – 11:30 | Development of an objective measure of movement coordination for swimmers with |
| | neurological impairments (#82) |
| | A. Maia; L. Hogarth; B. Burkett; C. Payton |
| 11:30 – 11:45 | Handcycling classification: Influence of trunk strength on performance (#21) |
| | R. Muchaxo; S. De Groot; T. Janssen; L. Van der Woude; I. Kouwijzer; C. Nooijen |
| 11:45 – 12:00 | Inter-rater reliability of the new classification system for Para Va'a (#129) |
| | J. Rosén; V. Goosey-Tolfrey; K. Tolfrey; T. Arndt; A. Bjerkefors |
| 12:00 – 12:15 | The relation between performance measures in para-cycling classification research |
| | (#99) |
| | C. Nooijen; A. Bjerkefors; J. Liljedahl; R. Muchaxo; T. Janssen; L. van der Woude; T. |
| | Arndt; S. de Groot |
| 12:15 – 12:30 | Rapid review of performance determinants in Para-Dressage (#59) |
| | S.J. Hobbs; L. St George; J. Read; E.H. Littlefair; J. Williams; R. Stockley; C. Thetford; J. |
| | Sinclair; H.M. Clayton |
| | |
| 12:30 – 14:00 | Lunch |
| Foyer and | |
| Rosa 4-6 | |