

22<sup>nd</sup> annual Congress of the

# EUROPEAN COLLEGE OF SPORT SCIENCE SPORT SCIENCE IN A METROPOLITAN AREA

5th - 8th July 2017, Essen - Germany

Ruhr University Bochum, Technical University of Dortmund and University of Duisburg-Esser



# ECSS MetropolisRuhr 2017



### Welcome

### Welcome to the 22nd Annual Congress of the ECSS

On behalf of the three hosting institutions of the University Alliance Ruhr (UARUhr), namely the Faculty of Sport Science (Ruhr-University Bochum), the Institute of Sport and Sport Science (TU Dortmund University) and the Institute of Sport and Movement Science (University Duisburg-Essen), it is our greatest pleasure to invite you to attend the 22° annual Congress of the European College of Sport and 87° July, 2017, at the Congress will be held between 5°° and 87° July, 2017, at the Congress Centre Essen (CCS) which is easily accessible by train from Düsseldorf International Airport and well connected by local transportation services.

"Sport Science in a Metropolitan Area", as a superior conference to topic, faces the tremendous challenges in a large and multicultural topic, faces the tremendous challenges in a large and multicultural population centre, including the broad range from Inactivity to himself intensive physical stress, the distinct trend of achieving more Individuality in lifestyle and physical activity, as well as the Inclusion of minorities. Historically, some high-performance sports, such as one professional football, have been an important key to strengthen the people's Identification with our region. These specific challenges will run as a red thread through the congress and will be taken up by the plenary talks, oral and poster presentations and symposis.

Our mission as experts in Sport Science, working within MetropolisRuh, is to explore scientifically some of these challenges and issues. We approach them from an interdisciplinary perspective, including humanities, natural sciences and medicine, and we teach them with a very practical orientation. Research-based learning is a guiding principle in all Bachelor and Master programs. By that, we ensure the best transfer of knowledge for our students, who will soon be responsible for our future society.

As young investigators are the future key-players in Sport Science research, the ECSS MetropolisRuhr 2017 will specifically attract and very warmly welcome highly motivated early stage researchers from all over the world, provide instructional workshops and satellites and bring them together with top experts in all different fields of Sport Science. We also aim at offering researchers a platform for presenting and discussing their very recent findings with their colleagues, in order to create or stallize networks, and - overall – to ensure that relevant findings will be beneficial for our society.

A congress is not only a place for transfer of knowledge but also for learning about the host country and its people. In the area of MetropolisRuhr, there has been a huge transformation from an area of coal mining and steel production to a modern metropolis of the 212 century. Our region is famous for its social diversity, a fusion of industrial history and trendy culture and numeral recreational and highperformance sporting activities. In direct neighbourhood to CCE, one can find the famous "Grugapark" offering a botanical garden with rare and beautiful plants, an attractive animal park, a health facility and spa, and a gastronomic place that invites you to get together in several stylish restaurants. The illuminated main path is perfect for doing your own recreational activities, like running or walking, and in a just five minutes' walk you can reach the popular dining and nightlife area "Rüttenscheider Straße", where local pubs invite you to linger after a long and busy congress day. If you like to learn more about Germany, we will recommend you to visit the city of Cologne and other spots in the region of North-Rhine Westphalia, as well as some of the most famous touristic places somewhere else in Germany, like the Alps in the south, the Wadden Sea in the north, or the manifold attractions of our pulsatile capital Berlin.

We look very much forward to seeing you all in Essen in 2017. Petra Platen and Alexander Ferrauti Presidents, 22<sup>nd</sup> Annual ECSS Congress

## MetropolisRuhr

### 5 reasons to visit the MetropolisRuhr area

- it is a lively cosmopolitan area
- · it is famous for its social diversity
- · it is home of numerous sporting activities
- it combines industrial history with modern and trendy culture
- · it is easily accessible

## Venue

#### Striking atmosphere

With spacious rooms, first-class technology and excellent service, the Congress Center Essen is an ideal venue for all kinds of events. The unique blend of industrial culture, modern design and spacious lawns in the centre of the Rhine-Ruhr metropolitan region provides the perfect backfroot to unique events.

## Essen - the city of many possibilities

Essen, one of the top ten biggest cities in Germany, is located in the middle of the Ruhr metropolitan region.

The outstanding transportation infrastructure and the Düsseldorf Airport only 20 minutes away, make arrival and departure very convenient. The efficient public transport network on-site allows for quick access to all the city's highlights.

In just five minutes' walk, you will reach the popular dining and nightlife area Rüttenscheider Straße – simply called "Rü" by Essen locals. In this district, you will find a vibrant, authentic scene where local pubs invite you to relax.

In just five minutes on the U 11, you will reach the city centre, with a rich cultural offering, a bustling pedestrian area and numerous cafes and restaurants.

#### Exhibition

The ECS congress exhibition presents the latest products and services in spot science, from untition and performance enhancing supplements to physiological and biomechanical analysis and measurements, as well as state-of-the-art training devices and wearable technologies also. Giving you access to the latest information and solutions in sport science, the ECSS MetropolisRuhr 2017 exhibition will host around 60 international exhibitors.

# ECSS Young Investigators Award

scientists and foster state-of-the-art research. For this reason, the ECSS established the Young Investigators Award (YIA). At ECSS MetropolisRuhr 2017, young scientists will again have the opportunity to enter this prestigatous competition for scientific excellence, where outstanding scientific research will be presented. A Jury consisting of the ECSS Scientific Board and ECSS Scientific Committee grants the awards based on an oral and mini-oral presentation for the too ten presentations.

One of the key objectives of the ECSS is to promote junior

### **GSSI Nutrition Award**

Designed for the broad area of sports nutrition and high performance, the GSSI Nutrition Award is open for submissions from the ECSS Metropolishuhr 2017 congress nutrition section. Throughout the congress, two independent ECSS reviewers and one GSSI representative will evaluate five finalists based on industry value and scientific excellence of their research. The winners will be announced during the GSSI Nutrition Award Ceremony.

## Aspetar Excellence in Football Research Award

The aim of the "Excellence in Football Research Award" is to attract and support novel, applied research projects with relevance to football (soccer). Although this does not exclude basic science studies, the award is aimed at stimulating more research in applied science with potential applications to the football pitch. One winner will be announced during the Aspetar Excellence in Football Research Award Ceremony.

## **Committees**

ECSS Executive Board Tim Cable - President (QAT), Marco Nariol - Past President (GBR), Joan L. Duda - President Elect (GBR), Erich Müller (AUT), Bente Klärlund Pedersen (DEN), Stephen Seiler (NOR). Congress Presidents Alexander Ferrauti (GER), Petra Platen (GER), Thomas Jailtner - Congress Vice President (GER), Tendens Jailtner - Congress Vice President (GER).

Chairs of Local Scientific Committee Petra Platen (GER), Thomas Jaitner (GER), Elke Grimminger (GER).

Chairs of the Organising Committee Alexander Ferrauti (GER), Henning Jarck (GER)

Members of the Organising Committee Anna Adamski (GER), Ulrich Bartmus (GER), Alexander Doeweling (GER), Daniela Fett (GER), Janina Fett (GER), Ulf Gebken (GER), Volker Grabow (GER), Marco Hagen (GER), Thomas Henke (GER), Dirk Hoffmann (GER), Gernot Jendrusch (GER), Kilian Kimmeskamp (GER), Marius Kirmse (GER), Till Krusche (GER), Martin Lemke (GER), Vanessa Oertzen-Hagemann (GER), Christian Raeder (GER), Christoph Schneider (GER), Katharina Trompeter (GER), Jan Venzke (GER), Thimo Wiewelhove (GER). Members of the ECSS Scientific Board Flemming Dela - Chair (DEN), Jan Cabri - Secretary (NOR), Paul Greenhaff (GBR), Albert Gollhofer (GER), Martin Halle (GER), Susanna Hedenborg (SWE), Luc van Loon (NED), Abigail Mackey-Sennels (GBR), Nicole Wenderoth (SUI) Members of the ECSS Scientific Committee José Antonio López Calbet (ESP), Annalisa Cogo (ITA), Wim Derave (BEL), Peter Federolf (NOR), Taija Finni (FIN), Markus Gruber (GER), Jørn Wulff Helge (DEN), Ylva Hellsten (DEN), Pierre-Nicolas Lemyre (NOR), Johannes Van Lieshout (NED), Maria Francesca Piacentini (ITA), Afroditi Stathi (GBR), Cecilie Thogersen-Ntoumani (AUS), Janice L. Thompson (GBR) ECSS Office Thomas Delaveaux (GER), Elias Tsolakidis (GRE), Steffen Neubert (GER), Juliane Leyva Gonzalez (GER), Tuulia Hokkanen (FIN), Alexandra Zavadska (SVK), Kate Nuttall (GBR)

## **Key Dates**

15th December 2016, 24:00 CET Abstract submission opening and opening of registration 15th February 2017, 24:00 CET Abstract submission deadline

April 2017, 24:00 CET Notification to authors about acceptance

1st April 2017, 24:00 CET End of Early bird registration May 2017, 24:00 CET Deadline for registration for presenting authors

## Registration fees

Accompanying person\*\*

ECSS MetropolisRuhr 2017	Early Bird Registration	Late Registration
Registration fee	Before or on 1st April 2017, 24:00 CET	On or after 2 <sup>nd</sup> April 2017, 0:00 CET
ECSS Member*	450 €	500 €
Non-Member	600 €	650 €
Student ECSS Member*	300 €	350 €
Student Non-Member	400 €	450 €

- \* Save on registration fee by becoming an ECSS Member 2017 before registering for ECSS MetropolisRuhr 2017.
- \*\* Social programme only no access to scientific sessions granted.

250 €

### Registration fee for participants includes

- admission to all scientific sessions
- admission to exhibition opening ceremony
- · opening reception1
  - congress material, congress bag, Final Programme in print, Book of Abstracts - in print on demand 25,-€1/35,-€ on-site
  - Coffee breaks (6) and lunches (3) at the congress venue<sup>1</sup>

300 €

<sup>1</sup>Pre-booking required. Only granted when pre-booking received!

## **Travel information**

## By airplane

ECSS MetropolisRuhr 2017 can be reached from several airports: Düsseldorf (DUS), Dortmund (DTM), Cologne (CGN), and Frankfurt (FRA). Amsterdam Schiphol (AMS) in the Netherlands is also an option and very well connected to the venue. SAVE UP TO 20% ON TRAVEL WITH THE STAR ALLIANCE™ NETWORK

The Star Alliance member airlines are pleased to be appointed as the Official Airline Network for ECSS MetropolisRuhr 2017.

## By train

Essen main railway station is very well connected by ICE, Eurocity and Interregio trains with German, Belgian and Dutch cities. A frequent ICE connection from Düsseldorf Airport station only takes 22 minutes to Essen main station. All other international Airports in the area, such as Dortmund, Cologne or Frankfurt, have excellent ICE connections to Essen (daily). For more information about travelling by train visit www.bahn.com.

#### By car

To reach the congress venue conveniently use motorway A3, A40, A42 or A52.

### Accommodation

The ECSS has negotiated a large number of hotel rooms at attractive rates in several categories of hotels ranging from budget to 4-star. These rates are only available through the congress website. You will find that all of these hotels offer quality accommodation including breakfast. Most hotels have car park facilities and are in close proximity to the congress venue.

Please find recent updates on www.ecss-congress.eu/2017









@ECSS2017 #ECSS2017

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# **EUROPEAN COLLEGE OF SPORT SCIENCE** SPORT SCIENCE IN A METROPOLITAN AREA

5th - 8th July 2017, Essen - Germany



# **Scientific Programme**

# PLENARY SESSIONS

Individuality - Social and Physiologic Perspectives for Fitness and Health <sup>IA</sup>
- Date: 05.07.2017 - PL-PS01 in Lecture Room: "Europa/West"
Chair: Bente Klarlund Pedersen [Denmark]

Speakers:

Roberta Sassatelli [Italy]: Consumers, Active Leisure and Performative Rationalization
Hans Hoppeler [Switzerland]: Individuality in Sport - A Physiological Perspective

Development of Talented Players to World Champions in Football (A) - Date: 06.07.2017 - PL-PS02 in Lecture Room: "Europa/West" Chair: Joan Duda [United Kingdom]

liams [United Kingdom]: Developing Elite Football Players: Practice,

Specificity, and Plasticity

Tim Meyer [Germany]: Scientific Support for Elite Football - Lessons From
Brazil 2014

Back Pain - Prevention and Therapy in the Modern Society (6) - Date: 08.07.2017 - PL-PS03 in Lecture Room: "Europa/West" Chair: Frank Mayer [Germany]

Speakers: Deborah Falla [Germany]: New Insights Into Motor Adaptation in Low Back Pain and Neck Pain: Implications for Sports Medicine and Rehabilitation Monika Hasenbring (Germany): Physical Activity and Biopsychosocial Medi-ration in Musculoskeletal Pain: How to Conceptualize Health-Promoting Acti-vity?

# Inclusion in Sport - Date: 07.07.2017 - PL-PS04 in Lecture Room: "Europa/West" Chair: Susanna Hedenborn (Swerton) sanna Hedenborg [Sweden]

- Thair: Susanna Hedenory [Sweden]
  Seakars:
  Gert-Pete Brüggemann [Germany]: Prostheses and orthoses How do they
  Finet Load Management and Sports Performance?
  P. David Howe [United Kingdom]: The Business of Inclusive Sport: A Philosophical Anthropology of Ulopia
- INVITED SESSION

- speakers: Faravi Kadi [Sweden]: The Systemic Environment and Aging: Influence of Litistyle Factors and Biological Effects Vuolko Koranen [Finland]: Circulating Micromas Body Composition and Muscale Performance Abigail Mackey [Demmark]: Changing the Local and Systemic Environment to Improve the Adaptation of Human Skeletal Muscale

# Exercise and the Brain - Date: 07.07.2017 - IS-PM02 in Lecture Room: "Europa/West" Chair: Stefan Schneider [Germany]

- Tabair. Skfan Schneider [Germany]
  popalaris:
  Romain Meeusen [Beigium]. Exercise, Neurotransmission and Neurogenesis
  Stand Schneider [Gemmary]: From Space to School Neuro-Enhancement
  Through Exercise
  Maniar-Gristina Polidori [Germany]: Effects of A Structured Exercise Program
  on the Relationship Between Cognition, Antioxidant Defence System and Vascular Function

# Training Children's Hearts - Cardias Adaptations to Exercise and Training in the Childhood Elite Athlete and Children with Heart Disease. - Date: 06.07.2017 - 18-PM03 in Lecture Room: \_Deutschland/South" Chair: Craig Williams [United Kingdom]

- speakers:
  Guido Peles (Caruda): Paediatric Curduc Exercise Physiology in Health and
  Disease Insights From Exercise Stress Imaging in Childrood Athletes and
  Childrian with Companith Heart Disease.
  Craig Williams (United Kingdom): Integration of Echocardiography and Curdiogniumous' prasting with Young Adolescents
  Renate Oberthofie (Jermany): Exercise Performance and Training Adaptation
  of Young Adhletes
- Individualisation in Recovery Science Date: 05.07.2017 IS-PM04 in Lecture Room: "Deutschland/South" Chair: Tim Meyer [Germany]

cksteden [Germany]: Individualized Diagnosis of Fatigue and Recovery Needs
Shona Halson [Australia]: Individual Response to Interventions Supporting

Recovery Mathieu Nédélec [France]: Sleep and Recovery in Elite Athletes - A Good Example for Large Interindividual Variability

Hot Topics in Altitude Medicine and Altitude Training - Date: 07.07.2017 - IS-PMO5 in Lecture Room: "Europa/West"
Chair: Schmidt Walter [Germany]

Chair. Schmidt Walter (sermany)
Speakers:
- Peter Blacksol (Bermany): The Brain in Acute Mountain Sickness and High
Adhubb Cerebon Edman
- Homes and Althube - An Update Focussing on
Petromance, Training and Health
- Petromance, Training and Health
- Lawa A Garviora-tree! (Bustralia): Challenges of Competition and
Petromance at Althube - Hor to Makinins the Response to Althube
- Mark 1921 11: Speake 61
- Speakers -

Partier mance at Allitude - Hor to Makeniss the Response to Allitude
Fascia - An Extensively Overtooked Tissue - Date: 06.07.2017 - IS-PM06 in
Lecture Room: \_Deutschland(South\*
Chair: David Behm [Canada]
Spekelds:

Speakers: Carla Stecco [Italy]: Anatomic and Physiologic Basics of the Human Fascial Network and its Relevance in Sport Science Steffen Desser [Germany]: The Impact of Nutrition on the Fascial System David George Belm (Canada): The Effects and Potential Mechanisms of Foa Rolling on Athletic Performance

The Individual Human Phenotype - Effects of Genetics, Epigenetics, Exercise and Nutrition - Date: 07.07.2017 - IS-PM07 in Lecture Room: "Europa/West" Chair: Wilhelm Bloch (Germany)

speakers:
Bernd Wolfarth (Germany): Genetic Aspects
Withlem Bloch (Germany): Epigenetic Aspects
Luc Van Loon (Netherlands): Individualized Prescription of Exercise and
Nutrition

Dietary Nitrate As An Ergogenic Ald - Date: 06.07.2017 - IS-PM08 in Lecture Room: "Europa/West" Chair: Lex B Verdijk [Netherlands]

hatalo [United Kingdom]: Dietary Nitrate As An Ergogenic Aid ijk [Netherlands]: Who Will Benefit From the Ergogenic Properties of

Dietary Nitrate?
Louise Burke [Australia]: Practical Application of Dietary Nitrate Supplementation in Sports

Strategies for Optimizing Elite Endurance Exercise Performance (A) - Date: 06.07.2017 - IS-PM10 in Lecture Room: "Europa/West" Chair: Carsten Lundby [Switzerland]

Speakers: - Asker Jeukendrup [United Kingdom]: Nutritional Strategies - Bent Rönnestad [Norway]: Periodization and High Intensity Interval Training - Carsten Lundby [Switzerland]: Altitude and Heat Training Strategies.

- Catasin Lordoy (Swizzhand), Andobe and read manning strategies.

Resistance Training in Youth Athletes (A) - Date: 07.07.2017 - IS-PM11 in Lecture Room: "Deutschland/South"

Chair: Thomas Muehlbauer [Germany]

Armstrong [United Kingdom]: Youth Athlete Development dri Lloyd [United Kingdom]: Long-Term Athlete Development: The Role of

cerryth acher [Germany]: Effects and Dose-Response Relationships of the Training in Youth Athletes



- Misscle Carniline: The Key Player in Muscle Fauel Selection? Dale: 08.07.2071 13-PM12 in Lecture Room: Speakers: Turnopal Time In Lecture Room: Speakers: Turnopal Time Indiance In Paul Greenhalf [United Kingdom] Denter Kiens [Denterland; The Limitations for Taty Acid Dediction in the Transition From Michaelme for High Intensity Exercise in Funancia and the Transition From Michaelme for High Intensity Exercise in Funancia and the Transition From Michaelme Analysis (Switzerland; The Impact of Carniline Repletion on Tissue Carniline Availability and Mascle Metabolism and Function Francis Selection (Judick Highopol): Increasing Muscle Carniller Availability in Humans and its Impact on Misscle Faul Selection and Regulation in Euroce and Health

# Macro and Micro Vascular Dysfunction: Adaptations to Exercise Training-Date: 07.07.2017 - IS-PM13 in Lecture Room: "Deutschland/South" Chair: Karen Birch [United Kingdom]

- peakers:
  Dick Thijssen (Netherlands): Exercise Training: Vascular Adaptations in Function-Structure and the Role of Shear Rands Part (United Ningdom): Exercise Training: Interval Exercise, Shear and Progenitor Cells
  Trayelantic Cells
  The Helisten (Demnark): Exercise Training: Microvascular Adaptation to Exercise in Health and Disease
- Exercise Testing and Training in Clinical Populations From High Performance Sports to Patients (5) Date: 08.07.2017 IS-PM14 in Lecture Room

ind/South" Friederike Scharhag-Rosenberger [Germany]

akers: iederike Scharhag-Rosenberger [Germany]: Exercise Testing in Clinical Po-

- pulations
  Jan Helgerud [Norvay]; "Hit the Patient" Strength and Endurance Training
  in Clinical Populations
  Lars Donath [Switzerland]; Aerobic Exercise Intensity Prescription and HighIntensity Low Volume Exercise (Hilhe) in Depressive Disorders

# Social Sciences & Humanities [SH]

everaging Sport Events for Sport Participation a 5.07.2017 - IS-SH01 in Lecture Room: "M/Süd" hair: Marie-Luise Klein [Germany]

- Speakers:

  Miks Weed [United Kingdom]: Leveraping Sport Participation From Mega-Sport Fewrits: Translating Possibilities (Into Policies Marijer Bais [Clarifica]): Sport Fewriss and Sport Participation: Quest for A Research Agenda Marijer Bais [Clarifica]: Sport Fewriss and Sport Participation of Ademographic Participation of Ademograp

# sss Regulation and Physical Activity - Date: 06.07.2017 - IS-SH02 in ture Room: "USūd" ir: Sandra Klaperski [United Kingdom]

- Speakers: Gether [Switzerland]: Cardionespiratory Filmess Moderates the Relationship Birtheren Perceived Stress and Cardiovascular Risk Factors: Sandrine Isoard-Satularu Firancei): Obes Physical Activity Moderate the Stress-Birmout Relationship?
  Stress-Birmout Relationship? Obest and Buttering Effects of Physical Exercise on Health: A Rct to Test and Examine the Stress Butter Effect
- Getting the Moves: Bodily Learning in Three Movement Cultures Date: 06.07.2017 IS-8H03 in Lecture Room: "L/Süd"
  Chair: Larissa Schindler [Austria]

- Opeaners:
  Chiara Bassetti [Italy]: Incarnating A Kinesthetic Culture: on the Embodiment of Contemporary Dance
  Lairssa Schinder (Austria): Vis-Ability: How to Learn Martial-Arts
  Sophie Merit Müller (Germany): Becoming A Bailet Body: Reconfiguring Distributed Corporabilities

# Prevention of Sexual Harassment and Abuse in Sports - Date: 07.07.2017 - IS-SH04 in Lecture Room: "L/Süd" Chair: Kari Fasting [Norway]

- peakers: Kari Fasting [Norway]; Preventing Sexual Harassment in Zambian Sport The Voices of Athletes and Coaches
- vouces or Antinetes and Coaches.

  Milke Hartill [United Kingdom]. Child Sexual Abuse in Sport and Leisure Settings: An Analysis of Reports to Uk Local Authorities
  Gretchen Kerr [Canada]: "Millial Michiness". As Contributor to Experiences
  of Sexual Harassment and Abuse in Sport.

# Doping Prevention – The Role of Coaches - Date: 07.07.2017 - IS-SH05 in Lecture Room: "L/Süd" Chair: Laurie Patterson [United Kingdom]

- Thair: Laurie Patterson (Unided Kingdom)
  Speakers:
  Laurie Patterson (Unided Kingdom): Investigating Uk-Based Coaches' Roles in
  Housest for Claus Sport
  Connella Bank (Hustria): Doping in Sport: West-Austrian Sport Teachers' and
  Canales' Knowledge Affitudes, and Bethaniour
  Philip Sulfivan (Canada): The Nature of Coaches' Efficacy in Confronting Doping Affitels

# How to Integrate Pedagogy of Health and Physical Education for School Subject? - Date: 07.07.2017 - IS-SH06 in Lecture Room: "L/Süd" Chair: Yoshinori Okade [Japan] s. ori Okade [Japan]: Health and Physical Education From An Asian Per-

- spective Marc Cloes [Belgium]: Health and Physical Education From A European Per-
- ctive ise Mccuaig [Australia]: Exploring the Hete in Physical Education Teacher cation: An Australian Perspective
- Volition in Sport and Physical Activity Date: 07.07.2017 IS-SH07 in Lecture Room: "L/Süd" Chair: Michael Kellmann [Germany]

- Jürgen Beckmann [Germany]: Volition, Personality and Sport Performance Jürgen Beckmann [Germany]: Volition in the Physical Activity Context. Measu-rement of Volition and Its Importance for Keeping Up Regular Exercise Roy Baumeister [United States]: Strength Model of Volition

# Serious Games in Sport and Health – Chances and Challenges - Date 05.07.2017 - IS-SH08 in Lecture Room: "Berlin/West" Chair: Josef Wiemeyer [Germany]

- Josef Wiemeyer [Germany]: Serious Games in Sport and Health- A Critical
- Review
  Amanda Staiano [United States]: Friend or Foe? Competition Versus Coopera-tion in Games for Health
  Michael Kokmeler-Rust [Austria]: Personalizing Educationally-Inspired Ga-ming Experiences
- The Psychology of Judgments and Decision-Making in Sport and Exercise Date: 08.07.2017 IS-SH09 in Lecture Room: "L/Süd"
  Chair: Markus Raab [Germany] Dakir. Markus Raab (setmeny)

  Markus Raab (United Kingdom); The Power of Simplicity; Why Less-Is-More
  Indicates Received Chiciaes

  The Power of Parallel Processing: Experts Use
  of Multiple Class in An Install

  Care Manamon (Australia); The Revet to Take Complexity and Context of
  Decision-Making Into Consideration



## e: 07.07.2017 - IS-BNO

Biomechanics & Neuromuscular [BN]
Specificity of Balance and Balance Training (5) - Date
in Lecture Room: "Berlin/West"
Chair: Markus Gruber [Germany]

Dhair. Markus Gruber (uermany)
Speakers:
Fey Honak (United States): The Speakericity of Postural Control and Balance in
Feytherist with Movement Disorders
Markus Cruber (Germany): Task Specificity of Balance Training
-Wolfgang Table (Switzerland): Balance Faining, Specific Adaptations with Age
-Wolfgang Table (Switzerland): Balance Faining, Specific Adaptations with Age
- Wolfgang Table (Switzerland): Balance Faining

- Vollagno Tubel [Switzerland]: Salince Training – Specific Adaptions with Age Tain and Neuromascular Function in Und Age—Implications for Qualitive and Motor Performance 1º - Date: 07.07.2017 - 18-8N02 in Lecture Room: Perlini/Nest" Marco Narici (United Kingdom) Speakers:
- Oron Levin (Belgium): Brain Metrics and Impaired Motor Performance: The Effects of Aging on Structural and Functional Interhemispheric Interactions of National Interhemispheric Interactions (Interhemispheric Interactions): Marco Naria (United Kingdom): Neuromuscular Protective Effects of Regul Physical Actury)
- Neur Neur (United Kingdom): Neuromuscular Protective Effects of Regul Proyect Actury
- Neur Neur (United Kingdom): Advanced Popular Control and Posture-United Affections Control in Advanced Age

Muscle-Tendon Unit Properties and Running Economy - Date: 06.07.2017 - IS-BN03 in Lecture Room: "Berlin/West"
Chair: Adamantics Aramontzis (Germany)

- Dalar Adamantios Arampatis (Germany)
  Speakers:

  Adamantios Arampatis (Germany): Tendomuscular Factors Affecting the Matabolic Cost of Running
  Bran Macintosh (Cianada): Skelital Muscle Energetics and Tendon Stiffness
  Implications for Energy Oost of Running
  Massals Inlikawa (Napan): Massculcischelat Oranzeleristics and Function During Running for 70g. Level Endurance Running

# Residual force Enhancement - An Underrated Neuromuscular Property for Sport & Health - Date: 06.07.2017 - IS-BN04 in Lecture Room: "Berlin/West" Chair: Daniel Hahn [Germany]

- psekkers.

  Walten Herzog (Lanada), Residual force Enhancement The Neglected Neuro
  muscular Property in Sport and Health.

  Daniel Hahn (Semany), 'The Stretch-Nortening-Oycle Revisited: New Residual force Enhancement Contributes to Increased Performance.

  Geoffrey A Power (Lanada): Maintenance of Heuromuscular Function in in
  Acutely and Chronically Altered Neuromuscular States by Mechanisms of Residual force Enhancement
- Variability and Coordination in Human Movement Date: 07.07.2017 IS-BN05 in Lecture Room: "Berlin/West" Chair: Erich Müller [Austria]
- Speakers: Erich Müller [Austria]: Motor Constraints and Functional Variability Katherine A Boyer [United States]: Examining Movement Coordination and It's Variability to Understand Pathological Gait. Peter Federoil [Austria]: Balance and Coordination New Insights in Biomechanics of Muscle Contraction - Date: 06.07.2017 - IS BN06 in Lecture Room: "Berlin/West" Chair: Toblas Siebert [Germany]
- ipeakers: Christian Rode [Germany]: New Insights in Microstructure and Muscle force
- Generation
  James Wakeling [Canada]: Multidimensional Models for Predicting Muscle
  Structure and Fascole Pennation
  Tobias Siebert [Germany]: Influence of Muscle Compression on Muscle force
  Experimentation and Simulation
- Big Data in Sports Date: 07.07.2017 IS-BN07 in Lecture Room: "Berlin/West Chair: Martin Lames [Germany]
- speasers.

  Andrew Mccormack-Smith [Germany]: Big Data in Sports: The Developer Perspec.

  Patrick Lucey [United States]: Big Data in Sports: The Analytics Perspective

  Anna Volossovitch [Portugal]: Big Data in Sports: The Sports Perspective

# Muscle Emg Activities in Sport Lecture Room: "Berlin/West" Chair: Taija Finni [Finland]

- speakers.

  Dario Farina [Germany]: Analysing and Interpreting Electromyo,
  Francois Hug [France]: Muscle Synergies in Different Exercises
   Taija Finni [Finland]: Muscle Inactivity and Activity During Norm al Daily Life
- Modalities of Interpersonal Coordination Date: 06.07.2017 IS-BN09 in Lecture Room: "Berlin/West"
  Chair: Alfred Effenberg [Germany]

poeurus. Cordula Vesper [Hungary]: Availability of Shared Visual Information in Joint Action Gerd Schmitz [Germany]: Auditory Information Modulates Interpersonal

- ordination er Keller [Australia]: Individual Differences in Temporal Anticipation aptation During Real-Time Interpersonal Coordination in Joint Drum

# Exchange Symposium: Exercise Performance and Health Protion - Date: 07.07.2017 - IS-EX01 in Lecture Room: "Deutschland/South"

- ers: u Zhao [China]: Development and Validation of Body Fat Prediction Equa in 20–69 Adults Vang [China]: The Health Behavior of School Aged Children in Tibet of China
- JSPFSM-ECSS Exchange Symposium: Challenging Physical Inactivity in Childhood and Adolescence What Cross-Border Evidence and Issues do we have? Date: 06.07.2017 IS-EX02 in Lecture Room: "Deutschland/South" Ryoichi Nagatomi [Japan]
- ipeakers: Koya Suzuki [Japan]: Comparison of Physical Activity and Fitness of Adoles-cents in Major Asian Cities: The Asia-Fit Study Keita Kamijo [Japan]: The Relation of Childhood Fitness to Executive Function.
- Nette canny (support to the control of the control
- ACSM-ECSS Erchange Symposium: The Compelling Link Between Physical Activity and Your Body's Delense System Date: 07.07.2017 IS-EX03 in Lecture Room. \_Deutschland,South Chair: Romain Meeusen [Belgium]
- Speakers:
  Neil Walsh [United Kingdom]: Practical Strategies to Avoid Immune Impair-ment in the Endurance Athlete and Warfighter
  David Nieman [United States]: The Immune System does its Job better in the Physically Active
- SPONSORED SESSIONS [SP]
- Nutrition for Muscle and Tendon Adaptation Sponsored by GSSI Date: 06.07.2017 IS-SP01 in Lecture Room: "Europa/West" Chair: James Carter [United States] Speakers:
- Dalari. James Carter (United States)
  Speakers:
  Leu Van Loon (Netherlands): Dietary Protein and the Skeletal Muscle Adaptive Response
  Terma Skewesson (United Kingdom): The Role of Antioxidants in Exercise Recovery and Adaptation
  Kealli Bass. (United States): Nutrition and Exercise to Minimize Musculookeletal Injury and Acceletate Return to Play.
- Sports Engineering Methods for Sports Science: Wearable Sensors and Machine Learning Sponsored by Adidas Date: 06.07.2017 IS-SP02 in Lecture Room: "Europa/West" Chair: Bjoern Eskofier [Germany]
- ipeakers.

  Valentina Cannomilia (Italy): In-Field Use of Wearable Magneto-Inertial Sensors for Motor Capacity, Sport Performance, or Risks of Injury Evaluation:
  State of the Art and Perspectives
  Bijoent Eskolet (Edermany): Wearable Computing Systems and Machine Learning for Sports Sentere Research Medical Research Research Vell Sennes (Edermany): When Modeling Becomes the Key to Understanding:
  The Previor of Medicing Approaches in Syorts Science and Engineering

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Chair: George Nassis [Qatar]

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  esile Podiog [United States]: Psychological Predictors of Injuries in Team Sports
  im Gabbett [Australia]: An Integrated Model for Health and Performance Ma agement in Football

