

**13th INTERNATIONAL
CONFERENCE ON
KINANTHROPOLOGY**



Sport and Quality of Life
7.—9. September 2022

CONFERENCE PROGRAMME

Brno, Czech Republic

MUNI **20** LET
SPORT **YEARS**



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SPORT YEARS



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Welcome to the

**13th INTERNATIONAL
CONFERENCE
ON KINANTHROPOLOGY
„Sport and Quality of Life“**

**FACULTY OF SPORTS STUDIES
MASARYK UNIVERSITY**

IN COLLABORATION WITH

**FACULTY OF KINESIOLOGY
UNIVERSITY OF ZAGREB**

SEPTEMBER 7-9, 2022

Brno, Czech Republic

G E N E R A L T O P I C S

Language

The official language of conference is English for all presentations. Interpretation into English will be arranged for introductory speeches of Czech representatives during the Opening Ceremony.

Oral Presentations

All thematic sections include one 15-20 minutes keynote lecture and 5 minutes for discussion or questions.

Oral presentations consist of 6 minutes presentation and 3 minutes for discussion or questions. All presenters should be available at the lecture room 10 minutes before the beginning of the section to upload their presentation and check its functionality.

All submitted papers will be reviewed. Accepted papers will be published in Proceedings of the conference. Proceedings will be submitted for acceptance in Scopus and Web of Science® databases.

Poster Presentations

There is one poster section during the conference. The posters will be exhibited in OREA Resort Santon, room Sázava. The authors are requested to be available 20 minutes before the beginning of the section for putting up their posters and also be available at their posters during the poster section according to program.

Registration Desk

Registration desk at the OREA Resort Santon is open throughout the conference. Please be so kind and make your registration before starting the programme.

Name tag

Participants and visitors registered to the conference will receive a name tag at the registration desk. Name tags are required to identify members of the conference and must be worn throughout scientific events, coffee breaks and social evening.

Internet Access

Free Internet Access is available in OREA Resort Santon.

Refreshment

In registration fee is included:
Coffee breaks on Thursday and Friday.

Lunch is to be paid cash by each participant on his own in a restaurant of his choice.

Opening Ceremony

Wednesday, **September 7, 17:00 – 20:00, OREA Resort Santon**

All registered participants and visitors are invited to the Opening Ceremony.

Social Evening

Thursday, **September 8, 19:00 – 24:00, OREA Resort Santon**

All registered participants and visitors are invited to the Social Evening in OREA Resort Santon

Transport Information

OREA Resort Santon
(Conference venue)

Address:

Přístavní 1064/38, 635 00 Brno

GPS: 49°13'51.3"N 16°31'05.7"E

Stop Přístaviště - bus 54, 303, N98;
trolleybus 3, 10

WEDNESDAY 7 / 9 / 2022

- 14:00 – 16:00 Arrival and registration
- 17:00 – 17:30 Opening ceremony
- 17:30 – 19:00 Opening invited lectures:
Peter Beek **Hallmarks of motor control and learning**
Sigmund Loland **Classification in sport – a question of fairness**
Luca Paolo Ardigo **Team sports match analysis: history and potential development**
- 19:00 – 20:00 Welcome drink

THURSDAY 8 / 9 / 2022

- 08:00 – 14:00 Registration
- 09:00 – 10:30 Presentations in sections
Analysis of human movement – room Svratka
Sport and social sciences – room Sázava
Sport training – room Dyje
- 10:30 – 11:00 **COFFEE BREAK**
- 11:00 – 12:00 Presentations in sections
Analysis of human movement (workshop) PhD section – room Svratka
Sport and social sciences – room Sázava
Sport training – room Dyje
- 12:00 – 13:00 **COFFEE BREAK**
- 13:00 – 14:30 Presentations in sections
Sport medicine – room Svratka
Sport and social sciences – room Sázava
Sport training – room Dyje
- 14:30 – 15:00 **COFFEE BREAK**
- 15:00 – 17:00 Presentations in sections
Sport medicine – room Svratka
Sport and social sciences – room Sázava
Sport training – room Dyje
- 19:00 Social evening: OREA Resort Santon

FRIDAY 9 / 9 / 2022

OREA RESORT SANTON Plenary sessions ICK 2022

- 09:00 – 11:30 Presentations in sections
Healthy lifestyle, active aging, nutrition and regeneration in sport – room Dyje
Poster section (PhD section) – room Svratka
- 11:30 – 12:00 **COFFEE BREAK**
- 12:00 – 13:30 **Healthy lifestyle, active aging, nutrition and regeneration in sport** – room Dyje
Poster section (PhD section) – room Svratka
- 13:30 – 14:00 **COFFEE BREAK**
- 14:00 – 15:00 **Panel discussion with elite professional athletes on dual career** – room Dyje
- 16:00 – 18:00 **Guided city center tour in English language.**
Start of the tour from the meeting point in front of the gym on Údolní street (Údolní 221, 602 00 Brno-střed).

THURSDAY

Analysis of human movement

ROOM SVRATKA

CHAIRS: Mario Kasovič, Lovro Stefan

OPENING LECTURE:

09:00

Kasovič Mario:

**An Introduction To Human Gait: Future Directions
in Biomechanics Analysis**

09:20

Bozděch Michal

Performance analysis of various features and functions settings on the neural network accuracy

09:35

Burger Ante

Foot deformities in boys athletes and non-athletes aged 14 to 18 years

09:50

Gimunová Marta

Centre of pressure changes during stance and gait after alcohol intoxication in relationship with habitual alcohol use in young women

10:05

Pavlinović Vladimir

Construction and validation of newly developed triangle test of reactive agility in school children

10:30

COFFEE BREAK

11:00

Analysis of human movement – workshop

12:00

COFFEE BREAK

Sport medicine

ROOM SVRATKA

CHAIRS: Julie Dobrovolná, Ana Carolina Paludo

OPENING LECTURE:

13:00

Dobrovolná Julie

Re-conceptualizing stress: Shifting perspective on the consequences of stress in sports medicine

13:30

Bandaru Niharika

A Cross-sectional Study: Correlation of Static Joint Angles and Balance Performance in Elderly with Mild Cognitive Impairment

13:45

Bazalová Pavlína

Impact of cancer and 12 weeks of chemotherapy on the balance of the autonomic nervous system in cancer patients

14:00

Grün Vojtěch

The cardiorespiratory parameter in ice hockey players diagnosed with COVID-19 after the 2020 competitive season: a case study

14:15

Hrušková Martina

First Aid Teaching and First Aid Instructions for Teachers

14:30

COFFEE BREAK

15:00

Kožlenia Dawid

Musculoskeletal injury risk based on static balance and movement quality in physically active women

15:15

Marić Dora

Injury prevalence in amateur lacrosse players; gender difference

15:30

Stefaniak Wojciech

Heightened tone and stiffness with concurrent lowered elasticity of peroneus longus and tibialis anterior muscles in athletes with chronic ankle instability as measured by myotonometry

15:45

Válek Tomáš

Lateral differences in handgrip strength in Czech U14 male tennis players in the context of injury prevention

16:00

Vasilcova Veronika

Pilot study: Effect of Developmental Dysplasia of the Hip on the gait and feet posture

16:15

Schuster Snjezana

Menstrual Cycle and Reproductive Health in the Training Process of Croatian Athletes According to Sports Groups

16:30

Triki Abdelaziz

Efficient Deep Neural Networks for Classification of Mild Cognitive Impairment from Scalp EEG Recordings

Sport and social sciences

ROOM SÁZAVA

CHAIRS: Stanislaw H. Czyz, Andrew Jahoda

OPENING LECTURE:

09:00

Czyz Stanislaw H.

**The effect of practice schedule on retention in motor learning of children and youth and older adults – is it biased?
The meta-analytic preliminary results**

09:20

Jahoda Andrew

09:45

Kampasová Jitka

Social Behavior in Participants of Special Olympics and Non-sporty Children with Intellectual Disability

10:00

Vít Michal

The role of a forensic expert in the field of self-defense under current legislation and beyond

10:15

Jozić Marijan

Examination of opinions, attitudes of students of the Police College on the values of judo sport

10:30

COFFEE BREAK

11:00

Jůva Vladimír

Development of a questionnaire focused on sports coaches learning

11:15

Hurych Emanuel

The Effect of Physical Activities on Somatic Parameters of Masaryk University Students – Some Selected Results

11:30

Kotlík Kamil

Sport and Physical Activity of Prague's Inhabitants

11:45

Labaš Damir

A subjective experience of athlete quality of life after retiring from a sports career

12:00

COFFEE BREAK

13:00

Možná Tereza

Socio-culturally different motor skills of Czech children with ASD aged 7-10 years assessed by the Test TGMD-3

13:15

Roček Michal

Development of a questionnaire focused on sports coaches learning

13:30

Sebera Martin

Physical activity of esport players

13:45

Strachová Milena

Olympic versus sokol movement

14:00

Škorić Sanela

Qualitative analysis of the attendees of the road cycling event „La Vuelta“

14:15

Topolovec Anja

Mapping the needs of different groups of athletes of the City of Zagreb and the Republic of Croatia during crisis situations

14:30

COFFEE BREAK

15:00

Válková Hana

Physical activity of persons with intellectual disability: a comparison of the capacity of activities during the outdoor camp and on the days of everyday life

15:15

Vychodilová Renáta

Strategy for change

15:30

Vychodilová Renáta

Analysis of attitudes

15:45

Svobodová Zora

Sports career termination

16:00

Chocholová Lucie

The absurdity of current trends in yoga

Sport training

ROOM DYJE

CHAIRS: Zoran Milanović, Magni Mohr

OPENING LECTURE:

09:00

Milanovic Zoran

Optimal youth athlete development: To specialize or not to specialize, that is the question

09:15

Mohr Magni

The physiology of high intensity sports – implications for training and preparation

09:30

Cuberek Roman

Differences in a dynamic load of handball players during the game in the context of player positions: Preliminary study

09:45

Bilić Zlatan

Differences in the situational parameters of tennis matches between winners and losers in the women's main draw competition at Roland Garros 2022

10:00

Bugala Martin

Human Performance Programme in the Czech Army

10:15

Caha Jan

Influence of 3 different rest pauses between series in strength training on changes in bone density in strength athletes

10:30

COFFEE BREAK

11:00

Agricola Adrian

The relative age effect in world junior tennis finals: a 5-year longitudinal study

11:15

Florian Jan

The selfish gene as a possible driving force behind HIIT

11:30

Fornaciari Shauane

Effect of 10 weeks of rhythmic gymnastics training on physical abilities performance in novice Brazilian group

11:45

Gilic Barbara

Forearm muscle sport-specific performances in elite youth sport climbers; gender, age, and maturity specifics

12:00

COFFEE BREAK

13:00

Gilic Barbara

Specific wrestling fitness test: differences according to wrestler's quality and weight category in elite youth wrestlers

13:15

Hadža Radovan

Kata selection, successfulness and scoring at the senior Karate 1 events in 2021

13:30

Horníková Henrieta

Determinants of reactive agility performance in table tennis players

13:45

Jeličić Mario

Influence of situational technical-tactical parameters on success in female basketball

14:00

Kovář Martin

Temporal interconnectedness of handball players' activities in the context of accelerating their movements: Preliminary study

14:15

Krajňák Jakub

Use of rate of force development in field testing of ice-hockey players

14:30

COFFEE BREAK

15:00

Modric Toni

Match outcome and running performance among UEFA Champions league soccer players

15:15

Morávek Zdeněk

Specificity of PAPE effect using explosive and maximal isometric stimuli on anaerobic cycling tests

15:30

Nemčić Tihana

Characteristics of different shots on goal considering the outcomes of the matches of one soccer team during half- season

15:45

Schlegel Petr

High-intensity functional training in pregnancy: a case study

16:00

Struhár Ivan

The role of the verification phase for determination of maximal aerobic capacity

16:15

Veršić Šime

Effects of 4-week Olympic weightlifting training on speed and power performance in recreational athletes

16:30

Winiarski Slawomir

Angular differences in major joints of the playing limb between short and long serve in table tennis

FRIDAY

Healthy lifestyle, active aging, nutrition and regeneration in sport

ROOM DYJE

CHAIRS: Armin Paravlic, Vjekoslav Cigrovski

OPENING LECTURE:

09:00

Paravlic Armin

The use of digital-based interventions on health-related performance measures in older

09:30

Geets-Kesic Marijana

Health literacy, physical literacy, and body composition; gender-specific associations among Croatian adolescents

09:45

Kavalířová Gabriela

The Difference in Quality of Life and Selected Parameters of Body Composition of Physically Active and Inactive Middle-aged Women

10:00

Kotková Michaela

Impact of whole-body electromyostimulation and resistance training programme on strength parameters and body composition in group of elderly women at risk of sarcopenia

10:15

Kumstát Michal

Nutrition periodization in recreational endurance athletes during training camp – case study

10:30

Stiebler Marvin

Dance against dementia (DiADEM): effects of a sportive dance training on cardiorespiratory fitness (and cognition) in seniors with mild cognitive impairment (MCI)

10:45

Bernaciková Martina

Reasons for an early career termination: a case study of female runners from Slovakia national team

11:00

Hrubý Michal

Nuovo Therapy

11:30

COFFEE BREAK

12:00

Nohelová Denisa

Age-related changes in older adults' gait pattern

12:15

Svobodová Lenka

The effect of parkour concept on functional mobility in older adults

12:30

Štefan Andro

Walking speed: a factor in the physical fitness of the elderly

12:45

Zenic Natasa

Attitudes toward doping in high level team-sport coaches; Gender specific correlates of doping intentions

13:00

Palijan Lana

Characteristics of the menstrual cycle according to the sports groups of the new generation of female athletes

Poster section (PhD section)

ROOM SÁZAVA

CHAIRS: Zdenko Reguli, Petar Barbaros

09:00

Babić Matej

Anthropometric and somatotype differentiation between elite kyorugi and poomsae competitors

09:05

Belcic Ivan

Relationship between the length of an active wrestling career with selected attitudes and behavior caused by the covid-19 virus pandemic

09:10

Belcic Ivan

Does the amount of injuries affect the final ranking at the end of the competitive season in football?

09:15

Bon Ivan

Analysis of importance of physical preparation for recreational alpine skiers

09:20

Dukarić Vedran

Comparison of some kinetic and kinematic parameters during performance of straight punch with two boxing techniques – case study

09:25

Jenčíková Kateřina

Does the number of prescribed medications affect the quite stance in elderly?

09:30

Juříková Jana

Knowledge of proper physical activities of pregnant women

09:35

Grubšič Mateja

The Test of Sensory Functions in Infants (TSFI) for screening purpose in full term infants

09:40

Maglov Mate

Kiteboarding injuries

09:45

Marinović Marin

Differences between traditional and modern technology in the acquisition of new ski knowledge abstract

09:50

Materová Eliška

Analysis of 24-hour monitoring of physical behavior in girls and boys of school age in the context of after school organized physical activity

09:55

Milčić Lucija

Differences in height and weight in young female gymnasts

10:00

Novotna Alexandra

Cost-Effectiveness of Preventive Physical Activity Programs in Elderly; theoretical background and methodology

10:05

Ohnjec Katarina

Correlation between wrist motor control and throwing velocity in young male handball players

10:10

Petrů Jiří

The relationship between selected kinematic parameters and the speed of the jump topspin serve in men's volleyball

10:15

Pietraszewska Jadwiga

Morpho-functional changes in young female volleyball players during training cycle

10:20

Pokorná Alena

The analysis of students and lectures' attitudes towards online streamed sports courses within the compulsory physical education at Masaryk University during the COVID-19 pandemic

10:25

Polach Marek

Influence of the pull-out technique on start and turn performances in elite male 50 m breaststroke swimmers

10:30

Rajković Vuletić Petra

Differences in motivation for exercise between male and female high school students

10:35

Rešetar Tomica

Analysis of somatotype of young Croatian volleyball players in the women's national team

10:40

Sekulic Damir

The effect of successful team pressing on running and technical performance in elite soccer

10:45

Stachoń Aleksandra

Differences in body fat and muscle mass in relation to competitive level in male handball players

10:50

Šipl Milan

The Effect of Physical Activities on Somatic Parameters of Masaryk University Students – Some Selected Results

10:55

Vencurik Tomas

Correlation of speed, power, and reactive agility in U19 basketball players

11:00

Vindiš Jan

24 hours physical behavior monitoring of patients with heart failure: the study design

11:05

Milčič Lucija

Biomechanical analysis of back extension roll and methodical exercises

11:10

Barbaros Petar

Construction of questionnaire for assessment of corruption intensity in tennis

14:00 – 15:00

Panel discussion with elite professional athletes on dual career

ROOM DYJE

CHAIR: Martin Santelmann, Universität Potsdam

A panel discussion with former world-class athletes on dual-career topics. What challenges does elite training bring to an athlete throughout a career? How do athletes balance training and learning? Is education the key to success in post-sports life? These issues will be addressed and discussed by athletes.

SCIENTIFIC COMMITTEE

Jan Cacek

Head

Dean, Faculty of Sport Studies, Masaryk University

Zuzana Sajdlová

Vice-dean for Science and Research, Faculty of Sports Studies

Andrew Jahoda

University of Glasgow

Armin Paravlič

Institute of Kinesiology Research, Koper

Luca Paolo Ardigo

University of Verona

Magni Mohr

University of the Faroe Islands

Peter J. Beek

Vrije Universiteit Amsterdam

Julie Dobrovolná

Masaryk University

Tomislav Rupčić

University of Zagreb

Sigmund Loland

Norwegian School of Sport Sciences

Stanislaw H. Czyż

Wroclaw University of Health and Sport Sciences

Zoran Milanović

University of Niš

Mario Kasović

University of Zagreb

ORGANIZING COMMITTEE

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Vice-dean for Science and Research, Faculty of Sport Studies, Masaryk University

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