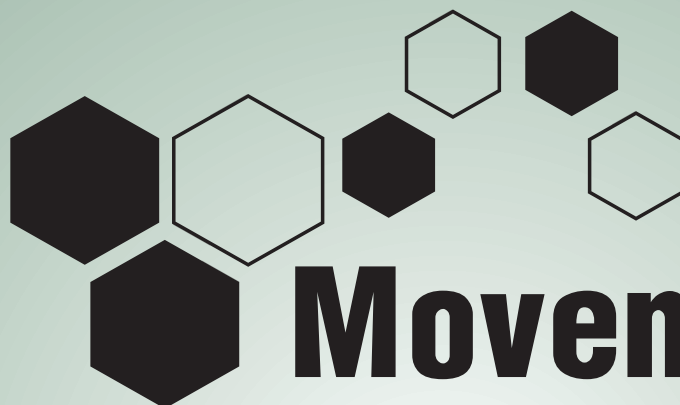




PALACKÝ  
UNIVERSITY  
OLOMOUC



# Movement & Health

Physical Activity of Children and Adolescents:  
Determinants and Outcomes

## Final Programme

7th International Conference  
June 2–4, 2014  
Olomouc | Czech Republic



Faculty  
of Physical Culture



# program at a glance

## SUNDAY | JUNE 1

### CASSIOPEIA

17:00–19:00

Registration

## MONDAY | JUNE 2

Main Auditorium | Congress Hall  
**PEGASUS**

**CASSIOPEIA**

**BERENICÉ**

**ORION**

08:00–10:00

Registration

10:30–11:00

Opening ceremony

11:00–12:00

**Keynote lecture | James Sallis**

*New and evidence-based strategies for promoting youth physical activity in schools and communities*

12:00–13:00

**Lunch** | Restaurant Benada | Clarion Congress Hotel Olomouc

13:00–14:00

**Keynote lecture | Jude Hirsch**

*Win:Win collaborations in the experiential learning classroom & beyond: Student assessment*

14:00–15:30

**Session 1A**

*Environmental Factors of Physical Activity*

**Session 4A**

*Biomechanical and Physiological Aspects of Movement in Children and Adolescents*

**Session 6**

*Experiential Education in Movement and Health*

15:30–16:00

**Coffee break and Poster session 1 | Trade Exhibition**

16:00–17:00

**Keynote lecture | Lee Gillis**

*Adventure Therapy and Adolescent Mental Health*

19:30–...

**Social Evening | Restaurant Caesar and Courtyard of the Town Hall**

10:00–18:00

**ANDROMEDA**

**WORKSHOP** | *Canadian Sport for Life – Long Term Athlete Development*



# program | june 2

## Keynote lecture | James Sallis

*New and evidence-based strategies for promoting youth physical activity in schools and communities*

## Keynote lecture | Jude Hirsch

*Win:Win collaborations in the experiential learning classroom & beyond: Student assessment*

## Session 1A | Environmental Factors of Physical Activity

- | **Mitas Josef** – Neighborhood walkability in physical activity of Czech adults – national representative study
- | **Lee Sunwoo** – Parents' perceived neighborhood environment as a determinant of physical activity engagement and resilience among children
- | **Pelclova Jana** – Associations between proximity to destinations and meeting walking recommendations when walking for transport: Differences between men and women
- | **Neuls Filip** – Monitoring of physical activity using internet maps: A verification study
- | **Liou Yiing Mei** – The construct and verification of the pattern of environments for predict the obesity rate of elementary school: A national based study.
- | **Rubin Lukas** – IPEN adolescent Czech Republic: A pilot study from Hradec Králové

## Session 4A | Biomechanical and Physiological Aspects of Movement in Children and Adolescents

- | **Botek Michal** – Association between vagal activity and aerobic capacity response after eight weeks winter preparation in soccer players
- | **Suchy Jiri** – Usefulness of training camps at high altitude for well-trained adolescents
- | **Ciesla Elzbieta** – Levels of physical fitness among 6-7 years-old children in Poland
- | **Heidari Nik Hossein** – The effects of velocity and angle of takeoff on standing long jump in children with different age groups
- | **Xaverova Zuzana** – Changes in muscle strength of adolescent soccer players
- | **Muckova Anita** – Kinematic analysis of motor behaviour in preterm infants

## Session 6 | Experiential Education in Movement and Health

- | **Prager Libor** – Sports, heroes, and personal narratives: A cognitive narratological approach
- | **Halak Jan** – The concept of „institution“ (Stiftung) as a contribution to the theory of experiential education
- | **Svoboda Jakub** – Spiritual growth through experiential education? Towards more accurate research design
- | **Hajkova Zuzana** – Wellness program: a way to healthy and quality life?
- | **Stara Jana** – Experiential wellness program: a way to healthy and quality life?

## Poster session 1

- | **Balaban Vlado** – Analysis of correlations between fundamental motor skills, motor abilities and intensity of physical activity in primary school age children
- | **Halawani Hassan** – Relationship of school obesity and motor skills of elementary age students
- | **Honzikova Lucie** – COP movement during gait in children with flexible flat foot
- | **Idrizovic Kemal** – Talent identification model in women's long jump
- | **Pokora Ilona** – Restoration of body fluid volumes after a heat stress and exercise-induced dehydration in unacclimated men
- | **Klugarova Jitka** – The highest level of evidence – Effectiveness of hallux valgus surgery: systematic review protocol
- | **Lauermanova Lucie** – Laughter yoga in the context of active leisure of children and adolescents: A narrative review of the literature of potential benefits of laughter yoga and practical use laughter yoga in children and adolescents.
- | **Liou Yiing Mei** – Impact of urbanization on obesity-related environmental factors in Taiwan.
- | **Lubowiecki-Vikuk Adrian P.** – Personal and environmental determinants of junior high school youth participation in sport (Central Poland)
- | **Matochkina Anna** – Social educational aspects of the formation of physical activity among school-aged children.
- | **Miao Lidan** – Energy expenditure during skipping rope to explore teen weight lose
- | **Mikkola Henna** – The physical activity of 1st graders – using new physical activity technology with children to research and to learn about physical activity
- | **Nama Ashish Prem Singh** – Effect of six-week breathing exercise and yogaasana on motor learning of simple basketball shooting skills
- | **Zbikowski Jarosław** – Assessment of occupational mobility and recreational physical activity of the disabled: a cross-sectional study of countrymen with disabilities in Poland
- | **Selingerova Mariana** – Relationship between bone mineralisation and skeletal maturity in adolescent athletes
- | **Tomankova Kristina** – Static foot geometry among Czech adults age 45 years and older: body composition as a risk factor.
- | **Wittmannova Julie** – Playwork: Project VIPER as gap-bridging instrument of volunteering and out of school childcare sector in the Czech Republic
- | **Xing Ruifeng** – Comparison different ways of sit-ups abdominal exercise effect adolescent lumbar muscles

## Keynote lecture | Lee Gillis

*Adventure Therapy and adolescent mental health*

## Workshop | Canadian Sport for Life – Long Term Athlete Development

# program at a glance

## TUESDAY | JUNE 3

07:00–08:00	Optional physical activities			
	Main Auditorium   Congress Hall <b>PEGASUS</b>	<b>CASSIOPEIA</b>	<b>BERENICÉ</b>	<b>ORION</b>
08:30–09:30	<b>Keynote lecture   Joseph Hamill</b> <i>Does changing footfall patterns improve running performance?</i>			
09:30–10:00	Coffee break			
10:00–11:30	<b>Session 1B</b> <i>Environmental Factors of Physical Activity</i>		<b>Session 2A</b> <i>Movement in the Development of Children</i>	<b>Session 4B</b> <i>Biomechanical and Physiological Aspects of Movement in Children and Adolescents</i>
10:00–11:30	<b>PERSEUS</b>	<b>Session 7A   Tourism for Quality of Life and Sport Management</b>		
11:30–12:30	Lunch   Restaurant Benada   Clarion Congress Hotel Olomouc			
12:30–13:30	<b>Keynote lecture   Mark De Ste Croix</b> <i>Physical activity and sport aren't good for you: Examining injury risk in youth sport</i>			
13:30–15:00	<b>Session 2B</b> <i>Movement in the Development of Children</i>		<b>Session 5A</b> <i>Sedentary Behaviour Children and Adolescents</i>	<b>Session 7B</b> <i>Tourism for Quality of Life and Sport Management</i>
15:00–15:30	Coffee break and Poster session 2   Trade Exhibition			
15:30–16:00	<b>Keynote lecture   David Weaver</b> <i>Enlightened mass tourism: A new sustainable tourism model for the 21st century.</i>			
16:30–18:00	Ball games   Sport Hall UP Tandem Jumps   Aiport Prostějov			
19:30–...	Social Evening   Restaurant Podkova			
17:00–18:00	<b>ORION</b>	<b>Round table   for the Czech participants</b> <i>Co je MABC-2 a jak může pomoci v diagnostice motorického vývoje dětí?</i>		



# program | june 3

## Keynote lecture | Joseph Hamill

*Does changing footfall patterns improve running performance?*

## Session 1B | Environmental Factors of Physical Activity

- | **Sigmund Erik** – Effect of longitudinal school-based physical activity intervention on reducing overweight and obesity of czech children aged 6-12 years
- | **Robinson Daniel** – Making tracks 1.0: Action researching a school-based active transportation education program
- | **Salonna Ferdinand** – Is the increase of BMI among Czech adolescents and young adults associated to the perception of environmental factors and physical activity?
- | **Buergi Rahel** – Where are children physically active? Localization of physical activity in primary school children using accelerometer and GPS
- | **Besic Damir** – The influence of socioeconomic factors on healthy active lifestyle in elementary school- aged children

## Session 2A | Movement in the Development of Children

- | **Tomatis Laura** – Reference values of fitness tests for Swiss first grade school children
- | **Kokstejn Jakub** – Motor competence in Czech children aged 11-15 years: What is the incidence of DCD?
- | **Valtr Ludvik** – The effect of gender, age, height, weight and body mass index on performance in movement assessment battery for children 2nd edition in adolescents
- | **Slachtova Martina** – The different movement strategy in preschool children
- | **Palomo Miriam** – The effects of various visual conditions on the gait cycle in children with different level of motor coordination-a pilot study

## Session 4B | Biomechanical and Physiological Aspects of Movement in Children and Adolescents

- | **Svoboda Zdenek** – Variability of pressure distribution during gait in children with heel valgus
- | **Martinaskova Eliska** – Foot kinematic analysis in children with clinical flatfoot
- | **Kubisova Michaela** – The effect of motor proficiency to pressure distribution during gait in pre-school children – pilot study
- | **Hirjakova Zuzana** – Visual and vibrotactile biofeedback for balance control in young people
- | **Vorlicek Michal** – Comparison of muscle activity during basic skateboard jumps
- | **Valdmanova Linda** – Musculoskeletal computer model used for gait analysis

## Session 7A | Tourism for Quality of Life and Sport Management

- | **Herget Jan** – Prague Marathon
- | **Sebek, Ludek** – The story behind winning the seven wonders of Olomouc region prize
- | **Kotulek Jakub** – Adolescents' perspectives on voluntourism experience in Czech Republic: The case of WWOOF

## Keynote lecture | Mark De Ste Croix

*Physical activity and sport aren't good for you: Examining injury risk in youth sport*

## Session 2B | Movement in the Development of Children

- | **Gaba Ales** – Is moderate-to-vigorous physical activity or steps per day more related to adiposity in a sample of Czech children?
- | **Abdollahipour Reza** – Performance of a gymnastics skill benefits from an external focus of attention
- | **Collard Dorine** – Physical activity and overweight are associated with physical fitness elements in primary school children
- | **Allawy Mohamed** – Differences in athletic aggression among egyptian junior players according to type of sport activity
- | **Roztocil Tomas** – Efficiency of P.E. lessons with short relays and parcours

## Session 5A | Sedentary Behaviour Children and Adolescents

- | **Stelzer Jiri** – How a different level of motivation to participate in physical activity affects the professional knowledge and healthy lifestyle of two groups of university students located in two countries.
- | **Jakubec Lukas** – Association between physical activity, well-being and physical fitness during school days in adolescents
- | **Kren Filip** – The usage of the internet for the research and promotion of physically active and health lifestyle
- | **Klimesova Iva** – Gender differences in eating habits of elementary school children
- | **Brovey Andrew** – Using tablet computers to support and encourage physical activity in the school
- | **Kudlacek Martin** – Competencies of general physical educators for inclusive physical education

## Session 7B | Tourism for Quality of Life and Sport Management

- | **Schwartzhoffova Eva** – Summer camps as a phenomenon in children's travel
- | **Stloukalova Brigita** – Monitoring of swimming education at swimming schools
- | **Sala Jozef** – Prerequisites and the directions for restructuring of spas in Poland
- | **Vicar Michal** – Comparison of the children sport talent models in the UK
- | **Suba Pavel** – Volunteering in the context of tourism
- | **Malachovsky Andrej** – Tourism study in Slovak Republic



# program | june 3

## Poster session 2

- | **Agricola Adrian** – *The relative age effect on tennis performance in the adolescents*
- | **Cristi Montero Carlos** – *Critical periods in body weight gain in Chilean schools: Winter vacation and National Holidays.*
- | **Dimitrijoska Sunchica** – *The mentors' program for children in the conflict*
- | **Drobek Wiesław** – *Active tourism in the Nysa-Jeseník borderland and the local and regional historical-cultural heritage*
- | **Dvorak Donna** – *Consumers and health in H&WB destinations – partial results from project WelDest*
- | **Chmelik Frantisek** – *Level of physical activity in adolescent boys playing active video games*
- | **Kasuyama Tatsuya** – *Comparison of the deep squatting pattern in the upper and lower grades of Japanese elementary school children*
- | **Korvas Pavel** – *The analysis of tourism in Brno region*
- | **Kowalik Krzysztof** – *Sport, tourism and recreation as a form of religiosity on the basis of selected examples of Catholic youth ministry in Poland*
- | **Lelonek Magdalena** – *Appropriate body mass and motor fitness in children and teenagers stemming from Kielce*
- | **Lelonek Magdalena** – *Comparative analysis of physical development level in children and teenagers living in Poland and The Czech Republic*
- | **Lelonek Magdalena** – *Level of motor skills and motor fitness in 5-year-olds participating in extra motor classes*
- | **Martinez-Bello, Vladimir** – *Older people can not move! A content analysis of the motor level activity in the pictures of early childhood education textbooks*
- | **Opocensky Jakub** – *Opinions of Czech and Norwegian cross-country skiing coaches to youth sports training*
- | **Pirsl Danica** – *The influence of physical education curricula on the development of ballistic and repetitive muscle potential in primary school pupils*
- | **Plewnia Danuta** – *Recreation and sport In pre-school athletics*
- | **Pyky Riitta** – *Profiles of physically inactive young men*
- | **Stelmach Marian** – *Compliance with the recommendation of physical activity using accelerometers as the controller and motivating method in the treatment of obesity in children*
- | **Safar Michal** – *Psychosocial risks of excessive movement activities in children and youth along with the factors linked to the dropout of the girls organized movement activities*
- | **Tokimoto Kumiko** – *Children's play and exercise in Fukushima prefecture following the 2011 nuclear accident*
- | **Zareba Monika** – *The level of motor skills developed by children at the age of 6 in relation to birth weight*
- | **Zhuang Jie** – *Effectiveness of 12-wk jump rope intervention on elementary students' physical fitness*

## Keynote lecture | David Weaver

*Enlightened mass tourism: A new sustainable tourism model for the 21st century.*

## Round table (for the Czech participants)

*Co je MABC-2 a jak může pomoci v diagnostice motorického vývoje dětí?*



# program at a glance

## WEDNESDAY | JUNE 4

07:00–08:00

Optional physical activities

	Main Auditorium   Congress Hall <b>PEGASUS</b>	<b>CASSIOPEIA</b>	<b>BERENICÉ</b>	<b>ORION</b>
08:30–09:30	<b>Keynote lecture   John Cairney</b> <i>Motor coordination as a fundamental cause of inactivity and health in children and youth: what's the evidence?</i>			
09:30–10:00	Coffee break			
10:00–11:30	<b>Session 3A</b> <i>Physical Activity and Sport in Children and Adolescents with Special Needs</i>		<b>Session 5B</b> <i>Sedentary Behaviour in Children and Adolescents</i>	<b>Session 8B</b> <i>Movement in Management of Injuries and Diseases in Children and Adolescents</i>
11:30–12:30	Lunch   Restaurant Benada   Clarion Congress Hotel Olomouc			
12:30–13:30	<b>Keynote lecture   Jozef Opara</b> <i>Sequelae of traumatic brain injury in childhood and adolescence</i>			
13:30–15:00	<b>Session 3B</b> <i>Physical Activity and Sport in Children and Adolescents with Special Needs</i>		<b>Session 5C</b> <i>Sedentary Behaviour in Children and Adolescents</i>	<b>Session 8B</b> <i>Movement in Management of Injuries and Diseases in Children and Adolescents</i>
15:00–15:30	Coffee break and Poster session 3   Trade Exhibition			
15:30–16:30	<b>Keynote lecture   James H. Rimmer</b> <i>Adapted physical activity guidelines for promoting inclusion and wellness of Czech youth with disabilities into existing evidence-based physical activity/obesity prevention programs for non-disabled Czech youth</i>			
19:30–...	Social Evening   Restaurant Konvikt			

16:30–18:00

**ORION**

**Round table | Session 3C** | Physical Activity and Sport in Children and Adolescents with Special Needs  
*„dis” HBSC* | Health Behaviour in School-aged Children: WHO Collaborative Cross-National Study



# program | june 4

## Keynote lecture | John Cairney

*Motor coordination as a fundamental cause of inactivity and health in children and youth: what's the evidence?*

## Session 3A | Physical Activity and Sport in Children and Adolescents with Special Needs

- | Invited speaker: **Scheetz Nanci A.** – *Communication strategies coaches and PE teachers use to communicate with players/students at residential schools for the deaf in the US*
- | **Valkova Hana** – *Special Olympics healthy athlete program: concept and relation with HBSC study*
- | **Liu Yang** – *Study on prospective physical education teachers' intentions toward inclusive physical education in China*
- | **Popiel Marcin** – *Physical activity by tourism of people with special needs*
- | **Halawani Hassan** – *Barriers to participation in physical activity/exercise for students with physical disabilities*
- | **Zoukova Irena** – *Objectivizing the assessment of motor development in infants and young toddlers*

## Session 5B | Sedentary Behaviour in Children and Adolescents

- | **Borraccino Alberto** – *Association between sedentary behaviors and eating behaviors in Italian 11, 13, 15 old young adolescents*
- | **Bezerra Jorge** – *Excessive TV watching time among adolescents from the state of pernambuco, Brazil: what has happened over a five-year period?*
- | **Cristi Montero Carlos** – *Changes in body composition, physical activity and food intake during the national holidays in Chilean children.*
- | **Badura Petr** – *Test-retest reliability of the questionnaire on physical activity and sedentary behaviour*
- | **Vasickova Jana** – *Popularity of school physical education and its effect on performed number of steps*
- | **Adar Ben Zion** – *Prolonged sitting and physical inactivity in relate to postural deformities and back pain complains among school children*

## Session 8A | Movement in Management of Injuries and Diseases in Children and Adolescents

- | **Neumannova Katerina** – *The effect of 4-week pulmonary rehabilitation programme on chest expansion in children with mild bronchial asthma disease*
- | **Valouchova Petra** – *Motor coordination disturbance in preschool and school age children – movement therapy according to Dynamic Neuromuscular Stabilization (DNS)*
- | **Smekal David** – *Diagnostics and physiotherapy of Sinding-Larsen-Johansson syndrome*
- | **Kobesova Alena** – *Kolar's approach to Dynamic Neuromuscular Stabilization (DNS): A developmental kinesiology approach for pain, dysfunction and optimal Performance*
- | **Suzan Zuzana** – *Kolar's approach to Dynamic Neuromuscular Stabilization (DNS): A developmental kinesiology approach to prevent athletic injuries and achieve optimal sport performance*

## Keynote lecture | Jozef Opara

*Sequelae of traumatic brain injury in childhood and adolescence*

## Session 3B | Physical Activity and Sport in Children and Adolescents with Special Needs

- | **Allen Kirsty** – *Validity and reliability of the Test of Gross Motor Development-3 (TGMD-3) with the use of visual supports for children with autism spectrum disorder.*
- | **Foran Amanda** – *Exergame play for physical activity and social engagement in young adults with and without autism spectrum disorder*
- | **Ferreira Jose** – *Physical activity of ambulatory and non-ambulatory youngsters with cerebral palsy: A descriptive profile*
- | **Kwok Ng** – *Personal factors in serial mediation with physical activity in Finnish adolescents with long-term illness and disabilities*

## Session 5C | Sedentary Behaviour in Children and Adolescents

- | **Parnell Samantha** – *Social marketing to engage children in sustained patterns of physical activity*
- | **Roberson Donald** – *Gardening: The introduction of children to a healthy lifestyle*
- | **Zahedmanesh Forouzan** – *How can helped to overweight women for more physical activity: need support and motivational regulations for different forms of physical activity*

## Session 8B | Movement in Management of Injuries and Diseases in Children and Adolescents

- | **Opavsky Jaroslav** – *Motor skills in child with a unilateral congenital below elbow deficiency performed with the use of myoelectric prosthesis – a case report*
- | **Jancikova Vera** – *How should we treat elbow fractures in children?*
- | **Nemcova Nina** – *The quality of the CTh erection of infants and its influence on the function of the posture and performance in adulthood*
- | **Kasparast Jui Ray Mehdi** – *Effect of physical activity on blood pressure among hypertensive patients*
- | **Chvalova Olga** – *Oscillation- anti-gravity method - one of possible answers to the challenge of the IT age?*





# program | june 4

## Poster session 3

- | **Abdolmaleki Zahra** – *A structural equation model of physical self-concept among girl children and adolescents: with role of puberty*
- | **Baloun Ladislav** – *The results of the pilot comparative study SE-PETE-D questionnaire at the selected public Universities*
- | **Djordjevic Ivana** – *Assessment of motor development in 5-7 years old children involved in organized physical activity*
- | **Djordjic Visnja** – *Experience of physical education teachers in inclusive education and perceived needs for support*
- | **Gasilewski Jarosław** – *Selection of a dominant leg in hurdle races*
- | **Hong-Min Lee** – *Sport education as a pedagogical application for students with disabilities in physical education*
- | **Iskra Janusz** – *Recreation and sport in pre-school athletics*
- | **Krejci Eva** – *The effect of hippotherapy on level of memory and attention of children with cerebral palsy*
- | **Martinez-Bello Daniel** – *Silenced bodies in the pictures of early childhood education textbooks*
- | **Migdaoua Alena** – *Results of the research project: Inclusion of pupils with physical disabilities into physical education in schools in Prague and Central Bohemian region*
- | **Petrova Lucie** – *Using elements of adventure therapy for children and youth with special needs*
- | **Protic Mladen** – *Impact of physical activity on inhibitory control component of executive functions in individuals with intellectual disabilities: A review*
- | **Protic-Gava Branka** – *Motor abilities of typically developing adolescents and adolescents with mild intellectual disabilities*
- | **Sabzi Amir Hamze** – *The effect of different intensity exercises-induced arousal on discriminative reaction time*
- | **Sklenarikova Jana** – *Temporal and content trends in research: Analysis of abstracts presented at EUCAPA Congresses from 2004 – 2012*
- | **Sklenarikova Jana** – *Training Methods for Paravaulting Athletes: Theoretical Overview*
- | **Struhar Ivan** – *Effects of core stability programme for young football players on the level of postural stability*
- | **Varekova Renata** – *Obesity in asthmatic children*
- | **Wittmannova Julie** – *Structure of leisure time activities in youth with physical disability*
- | **Liu Yang** – *Effects of inclusive physical education intervention on students without disabilities in the current Chinese compulsory education*
- | **Zareba Monika** – *The level of physical fitness in prematurely born children in early school years*
- | **Zhang Xiaoxia** – *The comparison of adapted physical education teacher training program between Palacky university and Xi'an university of sport*

## Keynote lecture | James H. Rimmer

*Adapted physical activity guidelines for promoting inclusion and wellness of Czech Youth with disabilities into existing evidence-based physical activity/obesity prevention programs for non-disabled czech youth*

## Session 3C Round table – „dis” HBSC

