

Sunday 1st September

6:00 PM - REGISTRATIONS OPENS

7:00-12:00 PM - OPEN CEREMONY, WELCOME RECEPTION – PALAZZO RE ENZO COURTYARD

Monday 2nd September

8:00 AM - REGISTRATIONS OPENS

8:30-9:15 AM - PLENARY SESSION

New technologies have enhanced the quality and availability of measures of biomechanical risk factors. How can we keep workers' digital footprint under control?

Sarah Sharple - Horizon Digital Economy Research, Human Factors Research Group, University of Nottingham, Nottingham, United Kingdom

9:15-10:00 AM - 3 PARALLEL SESSIONS

“Symposium” Title: Newly developed and redesigned key indicator methods for assessment of different working conditions with physical workloads. Aspects of background, objectivity, reliability and validity. PART I

Chair: André Klussmann

Presenters: Klussmann André, Liebers Falk, Serafin Patrick, Schust Marianne, Hartmann Bernd, Gebhardt Hansjürgen

Risk Assessment (Session 1)

Chair: Francesco Violante

What is the attributional fraction due to work for musculoskeletal disorders on a national level?

Van der Molen Henk

Proportion of upper extremity musculoskeletal disorders attributable to personal and occupational factors: Results from the French Pays de la Loire study

Nambiema Aboubakari

Music-specific and generic psychosocial stressors among performing musicians with various work arrangements

Laura Punnett

Special Session

MSD among Immigrant workers and Ageing, MS Health and Work

Chair: Acran Salmen Navarro

Work-related musculoskeletal disorders preventive program on New York City vulnerable Immigrant working population: A Clinic / University - community participatory collaboration

Acran Salmen Navarro

Do work exposures help explain musculoskeletal disorder work absence health inequalities?

Stock Susan

Multisite musculoskeletal pain in migrants from the Indian subcontinent to the UK: A cross-sectional survey

Ntani Georgia

10:00-10:30 AM *Coffee break*

10:30-12:00 AM - 4 PARALLEL SESSIONS

“Symposium” Title: Newly developed and redesigned key indicator methods for assessment of different working conditions with physical workloads. Aspects of background, objectivity, reliability and validity. PART II

Chair: André Klusmann

Presenters: Klusmann, André, Liebers Falk, Serafin Patrick, Schust Marianne, Hartmann Bernd, Gebhardt, Hansjürgen

MSD Case Definition and Surveillance (Session 1)

Chair: Roberta Bonfiglioli

A review of international programmes for the prevention and management of musculoskeletal disorders
Boocock Mark

The surveillance of musculoskeletal disorders in Italy: findings from the MALPROF System
Papale Adriano

Carpal tunnel syndrome as sentinel for detrimental occupational hand activities: a nationwide Danish cohort study
Tabatabaeifar Sorosh

Severity of carpal tunnel syndrome and manual work: findings from a case-control study
Mattioli Stefano

Twenty years of CTS surveillance among diverse occupational groups
Rosecrance John

Prognosis of patients with suspected carpal tunnel syndrome in relation to occupational mechanical exposure of the wrist and impaired median nerve conduction
Frost Poul

Occupational risk factors for surgically treated carpal tunnel syndrome – a prospective cohort study of 220,610 Swedish construction workers
Wahlström Jens

Effective interventions to prevent MSD (Session 1)

Chair: Laura Punnett

Using a mobile app to conduct process evaluation in a participatory ergonomics healthcare intervention
Chin Winnie

Effectiveness of the multi-component Dynamic Work intervention to reduce sitting time in office workers – results from a cluster randomised controlled trial
Renaud Lidewij

Controlling Vibration Exposure when Drilling into Concrete: Findings from Two Studies
Rempel David

Effectiveness of a vacuum lifting system in reducing spinal loads during airline baggage handling
Lu Ming-Lun

Work ability and vitality in coach drivers: a RCT to study the effectiveness of a self-management intervention during the peak season
Van Schaaik Art

Systematic Evaluation of Engineering Controls to Reduce Muscular Loading during Patient Handling Tasks
Kim Jay

Psychosocial effects of workplace exercise – A systematic review
Bordado Sköld Margrethe

POSTER SESSION

Chair: Andrea Farioli

A multidisciplinary team to manage ergonomic hazard: Case report of a storekeeper with hand strain
Lim Joseph

Designing and making smart class board into automatic height adjustable and determine the effect on user body posture
Habibi Ehsanollah

The relationship between status ergonomic construction jobs and musculoskeletal disorders construction workers using check list NIOSH-CPWR
Habibi Ehsanollah

Musculoskeletal disorders, ageing and overweight in the workforce - a prospective cohort study
Gram Bibi

Relationship between depression and musculoskeletal disorders
Nakata Minori

Work related musculoskeletal disorders among garment workers in south asia: a systematic review
Dissanayake Lasith

Comparison of musculoskeletal symptoms in blue-collar and white-collar workers in the previous seven days - analysis stratified by age
Cardoso Viviane de Freitas

Influence of low and high cognitive loading on task precision during a 30-min tracking task in younger and older subjects
Florestan Wagenblast

The Swedish Work Environment Authority introduces medical checks for hand-intensive work
Lorén Kersti

The U.S. National Occupational Research Agenda for Musculoskeletal Health
Lu Ming-Lun

Effectiveness of workplace interventions in the rehabilitation of musculoskeletal disorders among workers with physical employment: Systematic review
Sundstrup Emil

The impact of office ergonomics intervention: a case study in 18 companies across Singapore
Rusli Noer Triyanto Rusli

Sit-stand tables in overweight and obese computer workers: investigation of a comfortable pre-set time
Barbieri Dechristian

Evaluation of the Current Advise for Return to Activities and Work after Total Knee Arthroplasty
Straat A. Carlien

Supervisor's roles and responsibilities in preventing prolonged disability in workers with musculoskeletal disorders
Nastasia Iuliana

Review of research, policy and practice on prevention of work-related Musculoskeletal Disorders (MSDs)
Sas Katalin

An unobtrusive wrist orthotic for carpal tunnel syndrome intervention
Luong Pauline

Comparison of municipal bus driver whole-body vibration exposures when operating a bus with an active, passive and static suspension bus seat
Peter W. Johnson

12:00-AM – 1:30 PM - 3 PARALLEL SESSIONS

“Symposium” Title: The Ergo-UAS system and a new design approach: overview and validation

Chair: Gabriele Caragnano

Presenters: Gabriele Caragnano, Fabrizio Caruso, Roberta Bonfiglioli, Martin Haselhuhm, Lidia Ghibaudo/ Stefania Spada

MSD Case Definition and Surveillance (Session 2)

Chair: Alexis Descatha

Personal, biomechanical, psychosocial and organizational risk factors for carpal tunnel syndrome: a Structural Equation Modelling Approach
Yves Roquelaure

Correlations between pain in the back and neck/upper limb in the European Working Conditions Survey
Rizzello Emanuele

Work-Related Musculoskeletal Disorder Workers' Compensation Claims of the Low Back, Shoulder, Hand/Wrist, Knee, Elbow and Neck in the In-Home Care Industry in Washington State, 2006-2016
Howard Ninica

Predictors of Self-Reported Work-Preventing Upper Extremity Symptoms in Canadian Bovine Veterinarians
Reist Robyn

Disc herniation with radiculopathy: epidemiologic and economic indicators of compensation in the Pays de la Loire region
Fouquet Natacha

Using occupational injury and hazard surveillance in the development of safety interventions for professional loggers
Rosecrance John

Distribution of age, sex, and occupation of carpal tunnel syndrome patients using national health insurance data
Kim Young-Ki

Effective interventions to prevent MSD (Session 2)

Chair: Stefania Curti

Synthesizing the evidence on workplace practices and policies to prevent MSD
Irvin Emma

Results of a Participatory Ergonomics Intervention With Wearable Technical Measurements of Physical Workload in the Construction Industry
Brandt Mikkel

A sustainable participatory approach to reducing musculoskeletal hazards in long term care facilities
Van Eerd Dwayne

New strategies to commit subcontracting managers in MSD prevention

Aude Cuny-Guerrier

Does training duration of a worksite-supervised adapted physical activity program affect trunk functional capacities and pressure pain sensitivity over the low back among vineyard-workers?

Balaguier Romain

Smart workwear system with real-time vibrotactile feedback for improving postural behaviour in industry

Yang Liyun

Optimizing ergonomic working conditions by using a participatory program: the design of a goods-to-person picking system in a Belgian company

Costers Ruth

1:30-2:30 PM *Lunch time*

2:30 – 4:30 PM - 3 PARALLEL SESSIONS

“Symposium” Title: Job exposure matrices for biomechanical factors: from validation to application

Chair: Alexis Descatha; Co-Chairs: Bradley A Evanoff, Johan H Andersen

Presenters: Laure Ngabirano, Ann Marie Dale, Marc Fadel, Bradley A Evanoff, Annett Dalboge, Alexis Descatha

MSD Case Definition and Surveillance and Work Ability (Session 3)

Chair: Stefano Mattioli

Validation of a conceptual model for shoulder pain risk factors

Bodin Julie

Work above shoulder level and shoulder disorders – a systematic review

Wærsted Morten

Longitudinal analysis of shoulder kinematics and muscle EMG in patients surgically treated for rotator-cuff tear

Cutti Andrea Giovanni

Occupational biomechanical risk factors for surgical treatment of subacromial impingement syndrome (SIS) in a 16-year prospective study among male construction workers

Lewis Charlotte

Occupational mechanical and psychosocial exposures and Subacromial Impingement Syndrome: a systematic review

Andersen Johan H

Cervical intervertebral disc herniation and occupational risk factors: a literature review

Zunarelli Carlotta

Occupational risk factors for hospitalization due to cervical disc disorder in a 29-year prospective study of Swedish male construction workers

Jackson Jennie

MRI lumbar disco-vertebral findings, age and manual material handling. A cross-sectional multicenter study

Bonfiglioli Roberta

Persistent postoperative pain after groin hernia repair in relation to occupational mechanical exposures

Svendsen Susanne Wulff

Inguinal hernia and occupational physical exposure: systematic review and meta-analysis

Kuijjer Paul

Gender and MSD and Work Ability (Session 1)

Chair: Emma Irvin

Are there sex differences in scaption torque steadiness?

Oliveira Ana Beatriz

Are there sex differences in the muscle activation and in the relationship between objective and subjective indicators of muscle fatigue in the neck/shoulder region during a repetitive task?

Machado Cid Marina

Are sex differences in neck/shoulder electromyographical changes induced by a fatiguing repetitive task affected by the choice of the fatigue criterion?

Machado Cid Marina

Evaluating the treatment of sex and gender when assessing methodologic quality in a systematic review of explanatory and prognostic studies of musculoskeletal disorders

Stock Susan

What are the determinants of the sex/gender difference in the duration of work absence for musculoskeletal disorders? a mixed studies systematic review

Stock Susan

Sex-specific effects of standing vs sitting on trunk and leg muscular and vascular outcomes during a repetitive manual work task

Cote Julie

Awareness, Skill Building and Behavior Modification Program amongst Community and Office Employees on Safer Use of Computing Technology Equipment (Laptops, Desktops, Hand-held Devices, including smart-phones)

Madhwani Kishore P

4:30-6:00 PM - 3 PARALLEL SESSIONS

“Symposium” Title: Exposure response relationship assessing biomechanical overload of lumbar spine and upper limbs by methods suggested in ISO standards

Chair: Deepak Sharan

Presenters: Enrico Occhipinti, Enrique Alvarez Casado, Natale Battevi, Daniela Colombini, Deepak Sharan

“Symposium” Title: Methods for health risk assessment and risk factors identification of work-related musculoskeletal disorders

Chair: Sunisa Chaiklieng

Presenters: Sunisa Chaiklieng, Pornnapa Suggaravetsiri, Worawan Poochada,

Effective interventions to prevent MSD (Session 3)

Chair: Benjamin Steinhilber

Knowledge transfer and exchange for work and health research to practice

Van Eerd Dwayne

Operator-exoskeleton interactions: preliminary study on the acceptability of these devices

Atain kouadio Jean Jacques

Potential of back exoskeletons in limiting spinal muscles activity depends on their design and on task modalities

Theurel Jean

Postural consequences of the use of upper-limb exoskeletons during overhead work: influence of exoskeleton design?

Desbrosses Kévin

The effect of passive exoskeleton on the spatial distribution of low back muscles activity during simulated work conditions

Vieira dos Anjos Fabio

Efficacy, usability and acceptability of exoskeletons for workers assistance: A Systematic Review of current and potential application

Carta Angela

A pilot study evaluating the use of a passive exoskeleton as potential intervention for mitigating low back pain risk factors in farmers

Thamsuwan Ornwipa

6:00 PM Exhibition closes

Tuesday 3rd September

8:00 AM - REGISTRATIONS OPENS

8:30-9:15 AM - PLENARY SESSION

Insights into workplace and personal factors that predict disability related to CTS: The NIOSH Consortium Study

Carisa Harris Adamson - Assistant Professor, University of California, Director, UCSF/UCB Ergonomics Graduate Training Program, Richmond CA, USA

9:15-10:00 AM - PLENARY SESSION

New findings from the Italian OCTOPUS and related studies on CTS

Roberta Bonfiglioli - Associate Professor of Occupational medicine Chair of the ICOH SC Musculoskeletal Disorders - Department of Medical and Surgical Sciences, University of Bologna, Italy

10:00-10:30 AM *Coffee break*

10:30-12:00 AM - 4 PARALLEL SESSIONS

“Symposium” New and Revised Exposure and Risk Assessment Methods For DUE MSDS

Chair: Carisa Harris Adamson

Presenters: Carisa Harris Adamson, Brad Evanoff, Lukas Mitterlehner, Britta Weber, Sean Gallagher

MSD Case Definition and Surveillance (Session 4)

Chair: Susan Stock

The Sleeping on the Floor and the Range of Pelvic Tilt in Korean College Students

Yoon Jangwhon

Occupational musculoskeletal disorders among forestry workers

Pantea Codrina Petronela

Musculoskeletal disorders stemming from working in the wind industry: Results of an updated scoping review

Freiberg Alice

The differences in the number of varicose vein patients according to occupational categories and working positions: Pilot study on the disease's correlation to work

Lee Ilho

Bus road drivers: implementation of a remote physical exercise program using smartphone: a protocol study
Padula Rosimeire Simprini

Musculoskeletal disorders due to handheld devices: Changing patterns in the past 12 years
Sharan Deepak

Does screen work result in musculoskeletal symptoms? A systematic review and meta-analysis
Coenen Pieter

Effective interventions to prevent MSD (Session 4)

Chair: Paul Kuijer

How do we measure adherence? The effect of different measures of exercise adherence during a workplace-based exercise training intervention for office workers
Welch Alyssa

Longitudinal monitoring of musculoskeletal disorders: the relevance for ergonomic interventions
Major Marie-Eve

A novel model for health examinations for workers exposed to hand intensive work – a process evaluation of the ergonomist's perspective
Dahlgren Gunilla

The effects of an electro-mechanical seat suspension to reduce whole body vibration and low back pain in long haul truck drivers: Results from a randomized controlled trial
Dennerlein Jack

Supporting Return to Work after Total Knee Arthroplasty: Development of an Integrated Care-Intervention including eHealth and Goal Attainment Scaling
Straat A. Carlien

Workplace practices and research evidence in preventing prolonged disability in workers with musculoskeletal disorders
Nastasia Iuliana

A model for risk assessment and health examinations for workers exposed to hand intensive work. -The companies' experiences
Eliasson Kristina

POSTER SESSION

Chair: Alysha Meyers

Implementing preventive interventions for work-related upper extremity disorders in agriculture: facilitators and barriers
van der Molen Henk

Physical Exercise Intervention to reduce musculoskeletal disorders and improve work performance – a systematic literature search
Sjøgaard Gisela

A Participatory Ergonomics Research Model for Development of Interventions and Identification of Cultural Norms
Fulmer Scott

Gender differences on work-related musculoskeletal disorders among workers who perform their activities on sitting posture
Ana Beatriz Oliveira

If sternocleidomastoid muscle activation increased in women during the simulation of repetitive tasks could it predict greater risks of disorders?
Ana Beatriz Oliveira

Gender differences in the prevalence and intensity of neck, back and shoulder pain in Austrian bank headquarter workers - a secondary analysis of an observational study
Schwartz Bernhard

Correlation between fibromyalgia severity score and fitness for work: A cross-sectional study
Moshe Shlomo

Investigation of morningness and eveningness and it's related of factors caused by shift working in hospital nurses.
Habibi Ehsanollah

Presenteeism and Work-Related Musculoskeletal Disorders in Brazilian Nursing Workers
Baptista Patricia

Factors of success and of failure in the process of returning to work after surgery for a work-related degenerative shoulder injury: description of the sample
Desbrosses Kévin

The experience of nursing workers without work related musculoskeletal disorders on a sick team
Baptista Patricia

Work ability and self-rated health of workers with chronic musculoskeletal diseases: A prospective cohort study
Padula Rosimeire Simprini

A multiprofessional care program to chronic work-related musculoskeletal diseases individual: a cohort prospective study.
Padula Rosimeire Simprini

The independent Association Between Number Of Pain Sites And Return To Work. An Explanatory, Prospective Cohort Study
Drongstrup Jesper

Development and measurement properties of a firefighter-specific work limitations scale.
Macdermid Joy

Perceptions of facilitating factors and barriers when implementing activity based workplaces before and after implementation
Wijk Katarina

Correlation between exposure to work-related musculoskeletal risk factors and self-reported musculoskeletal lower back and neck/upper limb symptoms: A cross-sectional study based on the fourth Korean Working Conditions Survey
Oh Sungsoo

Consensus on testing and evaluation of occupational exoskeletons in the workplace, for a better integration
Atain Kouadio Jean-Jacques

Patient Transfers and Risk of Back Injury: An Electromyographic Evaluation of Assistive Devices
Vinstrup Jonas

12:00 AM-1:30 PM - 3 PARALLEL SESSIONS

“Symposium” Title: Exoskeletons for industrial use

Chair: Tessy Luger; Benjamin Steinhilber

Presenters: Jean Theurel, Ulrich Glitsch, Tessy Luger, Idsart Kingma, Divya Srinivasan

“Symposium” Title: Time patterns of biomechanical exposures at work in prevention and health promotion related to MSD: activity, pauses and variation

Chair: Kaj Bo Veiersted

Presenters: Kaj Bo Veiersted, Suzanne Merkus, Pascal Madeleine, Padula Rosimeire Simprini, Svend Erik Mathiassen

Ageing, MS Health and Work (Session 1)

Chair: Anne Marie Dale

When musculoskeletal pain limits work capacity – results from the Senior WorkingLife study among 11,791 senior workers
Andersen Lars L.

Synthesis of predictor factors for early departures of ageing workers by a systematic literature review
Pletea Elisabeta

Musculoskeletal disorders as predictors of health-related job loss amongst older workers: Results from the HEAF Study
Walker-Bone Karen

Informal caring responsibilities and poorer health amongst working 50-64 year olds: results from the Health and Employment After Fifty (HEAF) Study
Harris E. Clare

Safer and healthier work at any age
Sas Katalin

Trajectories of multisite musculoskeletal pain among middle aged employees: Association with mental symptoms and lifestyle factors
Neupane Subas

Obesity and the ability to work to older ages: insights from the Health and Employment After Fifty (HEAF) study
D'Angelo Stefania

1:30-2:30 PM *Lunch time*

2:30-4:30 PM - 3 PARALLEL SESSIONS

“Symposium” Title: Multilevel inventory of methods for risk assessment of physical workload (MEGAPHYS) – A joint project of the German Federal Institute for Occupational Safety and Health (BAuA) and the German Social Accident Insurance (DGUV)

Chair: Britta Weber; Marianne Schust

Presenters: Britta Weber, Marianne Schust, Ralph Bruder, Matthias Jäger

MS Work Disability (Session 1)

Chair: David Rempel

Do Pre-Operative Patient Expectations Regarding Work Ability Become True 6 Months After Total Knee Arthroplasty (TKA)? A Multicenter Prospective Cohort Study
Kuijjer Paul

The contribution of excess body mass to the risk of all-cause and cause-specific disability retirement: A systematic review and meta-analysis
Shiri Rahman

Impact of first-line healthcare providers on injured workers' trajectories of care: a four jurisdiction critical analysis
Hudon Anne

Objective predictors of physical work ability in aged manual workers
Norheim Kristoffer Larsen

Musculoskeletal diseases mediate the association of work ability and work life satisfaction with intention to retire
Nygård Clas-Håkan

Measurement properties of instruments assessing permanent functional impairment of the spine: blending evidence and stakeholder perspectives
Goes Suelen M.

A trajectory of good workability: An analysis of workplace predictors over 6 years
Oakman Jodi

Is it possible to estimate health economics from work ability score in musculoskeletal in workers with musculoskeletal disorders?
Hagberg Mats

Muscle strain and postures during conventional and robotic-assisted laparoscopic surgery: A paired cross-sectional study
Dalager Tina

Calcium fluxes in work-related muscle disorders: implications from a rat model
Barbe Mary F

Work Ability (Session 1)

Chair: Carisa Harris Adamson

Favorable changes in physical working conditions and risk of sickness absence: Analyzing a prospective cohort study as a pseudo-experiment
Shiri Rahman

QuickDecks: A new tool for sharing best evidence in back pain
Irvin Emma

Associations between muscular pain in neck and shoulders and psychosocial factors at work in relation to leisure physical activity among teachers
Malinauskiene Vilija

Linking health care and workplace: role of occupational therapists in workplace based occupational health care to prevent MSA-related workdisability
Désiron Huget

Neck, trunk, and upper arm posture variation during computer work at a sit-stand table in a real work setting
Barbieri Dechristian

Variation in upper trapezius and wrist extensor EMG among computer workers during sit-stand table use in a real work setting
Barbieri Dechristian

Implementing Activity-based Workplaces (ABW) and the importance of participating in process activities
Bergsten Eva

Evaluation of an Information Package on MSD Prevention for Small and Micro Business in Ontario, Canada
Yazdani Amin

4:30-6:00 PM - 3 PARALLEL SESSIONS

“Symposium” Title: SELFBACK, a digital health intervention to support self-management in low back pain

Chair: Karen Søggaard

Presenters: Karen Søggaard, Paul Jarle Mork, Mette Jensen Stochkendahl, Barbara Nicholl, Malene Jagd Svendsen, Louise Fleng Sandal

“Symposium” Title: The use of work-related PROMS in clinical care. Can the use of PROMS facilitate the dialogue between clinical care and occupational health?

Chair: Annechien Beumer

Presenters: Bert van de Wijdeven, Yasmayne Karel, Paul Kuijjer, Annechien Beumer

Effective interventions to prevent MSD (Session 5)

Chair: Susanne Wulff Svendsen

Reducing postural exposure in repetitive manual handling using the Smart Workwear System – effects of vibrotactile feedback and verbal instructions

Carl Lind

The Economic Burden of Work-Related Musculoskeletal Disorders in Five European Countries

Amirabbas Mofidi

Investigating the Potential for Workplace Injury Tradeoffs: Needle-less Injection Tools in Pork Production

Trask Catherine

Implementing an ergonomics program on commercial construction worksites reduced new incidents of pain and injury: Results from a cluster randomized controlled trial

Dennerlein Jack

Physiological effects of two level compression socks on security guards during prolonged standing work

Garcia Gabriela

Short interruptions during full day computer work and trapezius muscle activity – a randomized laboratory study

Läubli Thomas

Process Evaluation of a Workplace-Based Exercise and Health Promotion Cluster-Randomised Trial to Increase Productivity and Reduce Neck Pain in Office Workers: a RE-AIM Approach

Welch Alyssa

6:00 PM Exhibition closes

Wednesday 4th September

8:00 AM - REGISTRATION OPENS

8:30-9:15 AM - PLENARY SESSION

Imaging and biochemical biomarkers research in non-traumatic musculoskeletal disorders (MSD). Practical recommendations

Judith Gold - Centre for Musculoskeletal Research, Department of Occupational and Public Health Sciences, University of Gävle, Gävle, Sweden. Gold Standard Research Consulting

9:15-10:00 AM - PLENARY SESSION

Frailty and pre-frailty are major determinants of inability to work at older ages: what can we do about it?

Karen Walker-Bone - Director Arthritis Research UK/MRC Centre for Musculoskeletal Health and Work, MRC Lifecourse Epidemiology Unit, Southampton United Kingdom

10:00–10:30 AM *Coffee break*

10:30-12:00 AM - 4 PARALLEL SESSIONS

“Symposium” Title: Evidence-based, sustainable interventions: Do research and practice meet?

Chair: Laura Punnett

Presenters: Henk van Rhee, Jan Dul, Yves Roquelaure, Mohsen Zare, Kasper Edwards, Dwayne van Eerd, Maaïke Huijsmans

MSD Case Definition and Surveillance (Session 5)

Chair: Brad Evanoff

Impact of working technique on cumulative loadings among other factors

Vallée Marcotte Jasmin

Implementation of patient transfer technique and good perceived psychosocial working climate association with peak exposures of physical load among health care providers in nursing homes in Norway

Amro Amin

Characterizing musculoskeletal injuries in two public sector workforces with exposure to two different custodial populations

Kurowski Alicia

The BRAZilian eValuation of Occupational health (BRAVO) database: presentation of the workers' profile and prospects for future studies

Barros Fernanda Cabegi de

Prevalence of upper limb disorders and occupational health problems among the women brick molders of west bengal, india

Das Banibrata

Work-related polyneuropathy of upper limb

Ishteryakova Olga

Salient beliefs underlying the intention to diagnose WRMSD among General Practitioners: a qualitative study using Theory of Planned Behaviour

Mohd Yusoff Hanizah

Risk Assessment (Session 2)

Chair: Andre Klusmann

A critique of duty cycle and its role in assessing MSD risk

Gallagher Sean

Instrumental-based methods for biomechanical risk assessment

Draicchio Francesco

Musculoskeletal health in people on sick leave: Validation of the Norwegian version of the Musculoskeletal Health Questionnaire

Tingulstad Alexander

Sitting, standing and physical activity among male and female office workers of different age: behaviours examined using compositional data analysis

Mathiassen Svend Erik

The influence of nursing home, ward, eldercare worker and work situation on the use of assistive devices during resident handling

Karstad Kristina

Subjective criteria for knife sharpness evaluation in meat-cutting activities

Savescu Adriana

Psychophysiological reactions, stress and recuperation among telecommuting academics

Widar Linda

POSTER SESSION

Chair: *Julie Coté*

A Study on musculoskeletal complaints and working postures in pathology specialists in Iran
Rafiei manesh Ehsan

Lumbar disc surgery: is it only a sentinel event of spinal disease?
Fouquet Natacha

The effect of individual, occupational and psychosocial factors on low back pain among steel industry workers
Rafiei manesh Ehsan

The Upper limb neurodynamic test 1 in the clinical diagnosis of carpal tunnel syndrome
Trillos Maria

Worker's strategies analysis to prevent musculoskeletal disorders: the case of deburrers in the foundry sector
Schoose Clara

Occupational Injuries in Craft Beer Brewing Industry
Brents Colleen

Parsonage-Turner Syndrome: differential diagnosis of painful shoulder in a bus driver
Barbieri Dechristian Franca

Raynaud's phenomenon in the occupational context
Barbieri Dechristian Franca

Prevalence of and factors associated with nonspecific lower back pain in warehouse workers
Martins Gomes Maryanne

Prevalence of musculoskeletal pain and evaluation of postural risk among administrative workers at the Costa Rica Institute Technology
Campos-Fumero Adriana

Online dashboard for surveillance of ergonomic-related workers
Meyers Alysha

Difference between experts' and novices' footstep patterns during a palletizing task
Vallée Marcotte Jasmin

Work-related musculoskeletal injuries among health care workers handling patients - Brief statistical analysis
Melo Daniel

Evaluation of resilience in nursing workers in a teaching hospital
Baptista Patricia

Evaluation of a passive back exoskeleton in simulated industrial tasks
Baer Mona

Creating Awareness amongst Community and Office Employees on Safer Use of Computing Technology Equipment (Laptops, Desktops and Hand-held Devices)
Singh Jitendra Kumar

Implementation of short passive and active breaks during simulated laparoscopic work
Luger Tessy

Effect of telehealth program to office workers on knowledge, skills and on behavior: a secondary analysis of a cluster randomized controlled trial.
Padula Rosimeire Simprini

The Workers Applied More for the Sick Days Secondary to Musculoskeletal Disorders in the Year of a Major Downsizing: An observed case report at a Korean manufacturing company
Yoon Jangwhon

12:00-AM – 1:30 PM - 3 PARALLEL SESSIONS

“Symposium” Title: Effectiveness of interventions to prevent low back pain: insights from the field

Chair: Stefania Curti

Presenters: Henk van der Molen, Rahaman Shiri, Paul Kuijjer, Emma Irvin

Effective interventions to prevent MSD (Session 6)

Chair: Minoru Nakata

Outcome of treatment of work-related myofascial pain syndrome using a sequenced interdisciplinary rehabilitation protocol

Sharan Deepak

Evidence Based Sustainable Interventions for Safer Working amongst Office Employees, Physicians and Paramedical Staff

Madhwani Kishore P

Effectiveness of onsite occupational health clinics in management of work-related musculoskeletal disorders in information technology professionals

Sharan Deepak

An on-line intervention tool for reducing musculoskeletal discomfort amongst individuals working with computers and laptops from home

Madhwani Kishore P

Integrated care for work participation among orthopaedic surgery patients – a systematic review with meta-analysis

Coenen Pieter

Comparisons of whole body vibration exposures and related musculoskeletal stress between single-axial passive and multi-axial active suspension in a mining vehicle application

Kim Jay

A Cochrane Review: Ergonomic interventions for preventing work-related musculoskeletal disorders of the upper limb and neck among office workers

Victor CW Hoe

Risk Assessment (Session 3)

Chair: Lope H Barrero

Reaction Parameters Linked to Cumulative Trauma Disorders during Use of Powered Tightening Tools: A Literature Review

Mazaheri Ava

A participative toolkit for workplace users to assess and control risk of musculoskeletal disorders (MSDs)

Oakman Jodi

Physical load of rescue workers during patient transport in stairwells

Schiefer Christoph

Motion-based estimation of back loading during manual material handling tasks

Muller Antoine

Low back pain risk assessment: combining trunk kinematic and electromyographic data through a deep learning neural network

Delisle Alain

Monitoring working activities with inertial and magnetic sensors in place of video cameras: what are the advantages?

Ferrari Alberto

In Vitro Fatigue of Human Flexor Digitorum Tendons

Gallagher Sean

1:30-2:30 PM Lunch time & ICOH SC MSD Meeting

2:30 – 4:30 PM - 3 PARALLEL SESSIONS

“Symposium” Title: Fatigue Manichaeism and Musculoskeletal disorders

Chair: Bernard J. Martin

Presenters: Karen Søggaard, Julie Coté, Marie Barbe, Sean Gallagher, Bernard J. Martin

Work Ability (Session 2)

Chair: Andreas Seidler

Alternations between physical and cognitive tasks – does temporal pattern and cognitive task difficulty influence fatigue development?

Mixter Susanna

Occupational and leisure time physical activity and multiple pain sites in construction and healthcare workers during 2-year follow-up

Heggeland Marieke

Mobile app for employees as intervention to provoke a healthy physical workstyle

de Kraker Heleen

Quantification of stroke-induced proprioceptive and motor deficits to facilitate rehabilitation

Acosta-Sojo Yabrianna

What happens with ergonomics after relocation to a flex office?

Wahlström Viktoria

Working while working out – Using two types of dynamic office workstations (DOWs) with two intensities and the effects on tasks with various complexity

Schellewald Vera

Reasons for use and non-use of sit-stand workstations – results of a qualitative study among office workers with long-term access to sit-stand workstations

Huysmans Maaïke

Implementation of Ergonomic Intervention on Some Unorganized Sectors Workplaces at India

Ghosh Tirthankar

Inclusion of HFE Principles in the Development of a National Design Standard for Ambulances

Yazdani Amin

Inventory cost model with rest allowance based on effects of heat strain and metabolic cost

Korkulu Sezen

Risk Assessment (Session 4)

Chair: Yves Roquelaure

Proposal for an integrated multi-method holistic approach for risk assessment (and management) of biomechanical overload on the musculoskeletal system in healthcare workers of a large Italian University Hospital

Sala Emma

The Composite Strain Index (COSI) to evaluate the wrist's biomechanical overload in the milking routine: the example of the Italian dairy sector

Masci Federica

Novel Instrumentation For Measuring Hand Effort Through Pressure Mapping And Contact Forces During Actual Task Performance

MacLeod Charles

A wearable system for automated assessment of Hand Activity Level - a pilot study
Forsman Mikael

A smart hand-wrist risk assessment method
Forsman Mikael

Narrative review of risk assessment methods applied in the agricultural setting for the prevention of musculoskeletal disorders
Bonfiglioli Roberta

Ergonomic Risk Assessment and Process Efficiency in the Craft Brewing Industry: A Pilot Study
Hancock Kyle

Prevalence of musculoskeletal pain in children and youth in rural work and associated factors
Modernel Xavier Daiani

Manual force assessment using wearable pressure sensors: a case study
Graziosi Francesca

Use of Virtual Workplace Models and Predetermined Time Systems for Analysis of Work Loads
Bonfiglioli Roberta

4:30-6:00 PM - 3 PARALLEL SESSIONS

“Symposium” Title: Low Back Pain – Occupational and clinical aspects

Chair: Shlomo Moshe

Presenters: Shlomo Moshe, Ayala Krakov, Darya Levy Barak, Yael Sahar-Kostis, Yair Barak

“Symposium” Title: Beyond CTS: Findings on other health outcomes in recent large cross sectional and prospective studies

Chair: Carisa Harris

Presenters: Alysha R Meyers, Carisa Harris, Stephen Bao, David Siedel, Roberta Bonfiglioli

Effective interventions to prevent MSD (Session 7)

Chair: Dongmug Kang

Telehealth with Extended Care to promote the quality of life of office workers: a cluster randomized controlled trial

Padula Rosimeire Simprini

Adherence of office workers to active and passive pauses at workplace

Padula Rosimeire Simprini

Design of a return-to-work program to improve productivity and reduce recurrence: Back Pain Case

Lope H. Barrero

Reducing MSD risk in the aged care sector using multi-factorial evidence-based interventions

Rothmore Paul

A Cochrane Review about the effectiveness of work breaks for preventing musculoskeletal symptoms

Luger Tessy

Do high adherence to job rotation results in positive effects on the musculoskeletal symptoms, occupational risk factors perception and job satisfaction?

Comper Maria Luiza Caires

Impact of Secondary Intervention on Musculoskeletal Disorder Development, Systemic Inflammation and Sensorimotor Behavioral Declines in A Rat Model

Barbe Mary

6:00 PM Exhibition closes

Thursday 5th September

8:00 AM - REGISTRATION OPENS

8:30-9:15 AM - PLENARY SESSION

When and how to think about sex/gender during an ergonomic intervention

Karen Messing - Professeure émérite,, Département des sciences biologiques et chercheure, centre de recherche CINBIOSE, UQAM Université du Québec, Montréal - Canada

9:15-10:00 AM - PLENARY SESSION

Special Session

Exposure level assessment for causal attribution of MS diseases and Occupational Exposure Limits to prevent MS diseases and disorders.

Francesco Violante - Professor of Occupational medicine - Department of Medical and Surgical Sciences, University of Bologna, Italy

10:00–10:30 AM *Coffee break*

10:30-12:00 AM - 4 PARALLEL SESSIONS

“Symposium” Title: Developing International Criteria for Work-Related Musculoskeletal Diseases: An Initiative of the Committee on Work-related Musculoskeletal Disorders of ICOH

Chair: Roberta Bonfiglioli

Presenters: David Rempel, Karen Walker-Bone, Alexis Descatha, Andreas Seidler, Paul Kuijer

MS Work Disability (Session 2)

Chair: Adriano Papale

Which workers in France are at high risk of long-term work absence due to work-related musculoskeletal disorders?

Chazelle Emilie

Individual Placement and Support as a model of vocational rehabilitation for patients unemployed with chronic pain: A feasibility programme

Catherine Linaker

Effects of an early multidisciplinary intervention on sickness absence in patients with persistent low back pain - a randomized controlled trial

Mortensen Ole

Prevalence of sickness absenteeism and presenteeism due to musculoskeletal disease in manufacturing workers

Comper Maria Luiza Caires

Prevalence of musculoskeletal complaints in minimal invasive surgery

Steinhilber Benjamin

Future work ability is not regularly discussed with their general practitioner by patients suffering from musculoskeletal disorders – results of a survey among patients of a German population-based integrated healthcare model

Rieger Monika A

Definition of work disability from shoulder pain in a large French population

Godeau Diane

Musculoskeletal disorders in children due to overuse of electronic devices: Risk factors and clinical features

Sharan Deepak

Occupational Exposure Limits (Session 1)

Chair: Svend Erik Mathiassen

Lifestyle risk factors in the incidence and prognosis of chronic pain

Shiri Rahman

Time-use composition of physical behaviors at work and sick leave trajectories due to musculoskeletal pain

Hallman David

Predictive equations for initial horizontal hand forces when pushing or pulling trolleys based on trolley weight

Douwes Marjolein

Improved Planning for Active Pauses during Computer Work via Ocular Biofeedback

Samani Afshin

Concordance between exposure to physical factors in the Italian and the US O*NET database

d'Errico Angelo

How does heavy physical workload effect the progression of musculoskeletal pain? A cohort study of Swedish workers with pre-existing occasional pain

Badarin Kathryn

Prevalence and risk factors for musculoskeletal disorders in South African workers

Nyantumbu-Mkhize Busisiwe

POSTER SESSION

Chair: Francesca Graziosi

The relationship between sustained inflammation and work-related upper limb disorders - preparation of a cohort study

Läubli Thomas

Associations of objectively measured forward bending at work with low-back pain intensity: a 2-year follow-up study of construction and healthcare workers

Veiersted Kaj Bo

Developing RAMP 2.0 - for enhanced applicability

Rose Linda M

Sitting dynamics are age-dependent during computer work

Madeleine Pascal

Change of Musculoskeletal symptoms and working condition in a car part assembling factory during 2004 ~ 2016

Kang Dongmug

A Mixed Methods Analysis of Farm Machinery Injury: Contributing Factors and Proposed Prevention Strategies

Trask Catherine

Ergonomic Assessment of PASCAL Photocoagulator Machine in An Ophthalmology Clinic

Lim Joseph

Musculoskeletal disorders risk factors among Ophthalmologists in the operating theatre

Lee Lay Tin

Reliability of an observation protocol for foot motion assessment in a palletizing task

Vallée Marcotte Jasmin

Can productive manufacturing layouts influence of the pauses and worker`s health?

Padula Rosimeire Simprini

Risk factors for work related musculoskeletal disorders in information technology professionals
Sharan Deepak

A holistic approach to a disability management program in Occupational Health management
Van Niekerk Catherine Sarah

Correct identification of health promotion awareness to facilitate return to work
Minnie Denise

The my relief project: a european online education programme for older workers with chronic low back pain
Cibelli Anna

The Workers Applied More for the Sick Days Secondary to Musculoskeletal Disorders in the Year of a Major Downsizing: An observed case report at a Korean manufacturing company
Yoon Jangwhon

12:00 AM-1:00 PM - 3 PARALLEL SESSIONS

"Symposium" Title: Musculoskeletal Injuries amongst Firefighters

Chair: Joy C MacDermid

Presenters: Joy C MacDermid, Kathryn Sinden, Susan Stock

Risk Assessment (Session 5)

Chair: Sean Gallagher

Ergonomic risk assessment for work related musculoskeletal disorders in an orthopedic surgery team
Sharan Deepak

Working in cold environments and chronic pain lasting ≥ 3 months, a cross-sectional study from The Tromsø Study 6
Farbu Erlend

Non-explicit observational method is reproducible and valid for the analysis of occupational biomechanical exposure of workers
Valentim Daniela P

Prevalence and associated factors of musculoskeletal pain in artisanal fishermen in southern Brazil
Cezar-Vaz Marta Regina

Direct assessment of net spinal moments in subjects wearing a passive exoskeleton for trunk support in stooped working pose
Baten Chris

Ageing, MS Health and Work and Work Ability (Session 2)

Chair: Dwayne van Eerd

Dose-response relationship between cumulative physical workload and osteoarthritis of the hip – a meta-analysis applying an external reference population for exposure assignment
Andreas Seidler

Opioids prescribed to manage musculoskeletal pain often lead to opioid use disorder among construction workers
Dale Ann Marie

Patterns in concurrent low back and neck/shoulder pain among eldercare workers - A one-year longitudinal study with 4-weeks measurements
Søgaard Karen

The profile of people working in the social care sector in a cohort of 50-64 year-olds: results from the Health and Employment After Fifty (HEAF) study
D'Angelo Stefania

Work-Related Musculoskeletal Disorders among Older Construction Workers in the United States
Dong Xiuwen Sue

1:00-1:30 PM

Concluding remarks & closing ceremony

2:00 PM Exhibition closes