



28th International Symposium on
Epidemiology in Occupational Health

From the Workplace to the Population:
Exposure and Prevention

October 25-28, 2021

@epicoh2021  #epicoh2021



CONFERENCE PROGRAM



Detailed Conference Program

All times listed below are in Eastern Daylight Time (EDT)



MONDAY, OCTOBER 25, 2021

10:00 – 10:30	Welcome Ceremony
10:30 – 11:15	Keynote 1: Dr. David Michaels
11:15 – 11:45	Poster Viewing 1 (<i>visit the Posters on the platform</i>)
11:45 – 13:15	Symposia 1 (<i>see page 4</i>)
13:15 – 14:00	Lunch / Dinner / Networking
14:00 – 14:45	Keynote 2: Dr. Jian Li
14:45 – 15:15	Poster Discussion 1 (<i>visit the Posters on the platform</i>)
15:15 – 16:15	Concurrent Session A (<i>see page 5</i>)
16:15 –	Optional Networking

TUESDAY, OCTOBER 26, 2021

10:00 – 10:45	Keynote 3: Dr. Julius Fobil
10:45 – 11:15	Poster Viewing 2 (<i>visit the Posters on the platform</i>)
11:15 – 12:15	Concurrent Session B (<i>see page 6</i>)
12:15 – 12:45	Poster Discussion 2 (<i>visit the Posters on the platform</i>)
12:45 – 13:15	Rapid Fire Session 1 (<i>see page 7</i>)
13:15 – 14:00	Lunch / Dinner / Networking
14:00 – 14:45	Keynote 4: Dr. Alejandra Vives
14:45 – 15:15	Early Career Network Business Meeting
15:15 – 16:15	Concurrent Session C (<i>see page 8</i>)
16:15 –	Optional Networking

WEDNESDAY, OCTOBER 27, 2021

09:00 – 10:00	Meet the Editors
10:00 – 10:45	Keynote 5: Dr. Michelle C. Turner
10:45 – 11:15	Poster Viewing 3 (<i>visit the Posters on the platform</i>)
11:15 – 12:15	Concurrent Session D (<i>see page 9</i>)
12:15 – 12:45	Poster Discussion 3 (<i>visit the Posters on the platform</i>)
12:45 – 13:15	Rapid Fire Session 2 (<i>see page 10</i>)
13:15 – 14:00	Lunch / Dinner / Networking
14:00 – 15:15	Concurrent Session E (<i>see page 11</i>)
15:15 – 15:45	Poster Viewing 4 (<i>visit the Posters on the platform</i>)
15:45 – 16:15	Rapid Fire Session 3 (<i>see page 12</i>)
16:15 –	Optional Networking

THURSDAY, OCTOBER 28, 2021

09:00 – 10:00	Meet the Government and International Agency....
10:00 – 10:45	Keynote 6: Dr. David Prezant
10:45 – 11:15	Poster Discussion 4 (<i>visit the Posters on the platform</i>)
11:15 – 12:45	Symposia 2 (<i>see page 13</i>)
12:45 – 14:00	Lunch / Dinner / Networking
13:00 – 14:00	EPICOH Business Meeting
14:00 – 15:15	Concurrent Session F (<i>see page 14</i>)
15:15 – 15:45	Closing Ceremony

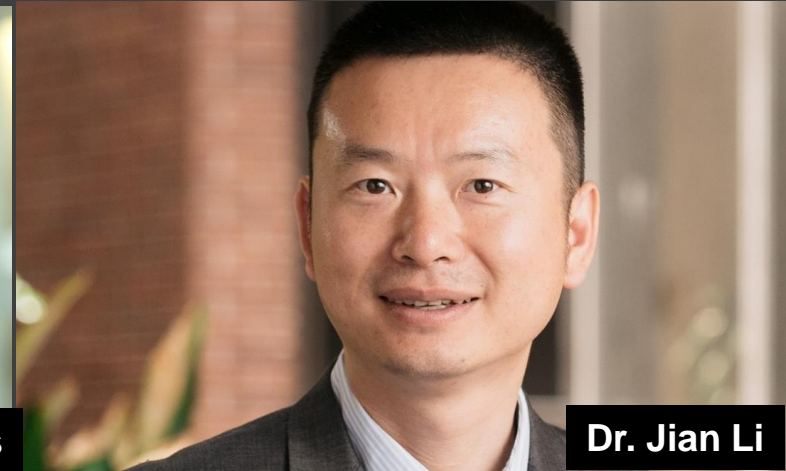
Keynote Speakers

Monday, October 25, 2021 @ 10:30am EDT

COVID-19 is an Occupational Disease: Why Don't We Treat It As One? Presented by **Dr. David Michaels**



Dr. David Michaels



Dr. Jian Li

Monday, October 25, 2021 @ 2:00pm EDT

Work Stress and Health: Where Are We and Where Do We Go? Presented by **Dr. Jian Li**

Tuesday, October 26, 2021 @ 10:00am EDT

Assessing work related exposures in the informal sector economy: A focus on electronic waste recovery workers
Presented by **Dr. Julius Fobil**



Dr. Julius Fobil



Dr. Alejandra Vives

Tuesday, October 26, 2021 @ 2:00pm EDT

Employment conditions, precarious employment and worker health and wellbeing
Presented by **Dr. Alejandra Vives**

Wednesday, October 27, 2021 @ 10:00am EDT

EPICOH Mid-Career Award: International collaboration in occupational epidemiology for global impact
Presented by **Dr. Michelle Turner**



Dr. Michelle Turner



Dr. David Prezant

Thursday, October 28, 2021 @ 10:00am EDT

World Trade Center Health Impacts 20 Years Later
Presented by **Dr. David Prezant**

Symposia Presentations 1

Monday, October 25, 2021 (11:45 – 13:15 EDT)

S1: Exposome Project for Health and Occupational Research	S2: Epidemiology of Occupational Infectious Agents (OIA)	S3: Deaths of Despair & Job Loss	S4: Respiratory Health Impacts of Occupational Cleaning and Disinfecting Exposures	S5: Night Shift Work Research: What Do We Need to Know to Make a Difference?	S6: Gender Intricacies and Occupational Health
<p>Chairs: Anjoeka Pronk (the Netherlands), Susan Peters (the Netherlands)</p> <p>S1.1: Taking a working life exposome approach: why do we need it and which challenges are we facing? Presenter: Susan Peters</p> <p>S1.2: Applying the exposome concept to working-life health: The EU EPHOR project Presenter: Anjoeka Pronk</p> <p>S1.3: Sensing and sampling for the external exposome in occupational studies Presenter: Miranda Loh</p> <p>S1.4: Strategies for monitoring of the internal exposome using self-sampling methods in the context of EU EPHOR project Presenter: Eline Verscheure</p> <p>S1.5: Exposome methods in occupational epidemiology: Use of text mining for developing Job Exposure Matrices Presenter: Martie Van Tongeren</p>	<p>Chairs: Antoon DeSchryver (Belgium), Jerry Spiegel (Canada), Mary Ross (South Africa)</p> <p>S2.1: Infectious disease risks associated with occupational exposure among non-healthcare workers: a systematic review of the literature Presenter: Antoon De Schryver</p> <p>S2.2: Incidence of COVID-19 by sector Presenter: Lode Godderis</p> <p>S2.3: Long term effects of COVID-19 in health workers and the assessment of the fatigue syndrome in compensation claims Presenter: Albert Nienhaus</p> <p>S2.4: Outbreak of Invasive Pneumococcal Disease among Workers at a Norwegian Shipyard. Presenter: Tor Erik Danielsen</p> <p>S2.5: A research program to provide a comparative contextualized analysis of occupational COVID-19 among health workers: Preliminary insights from a South African-Canadian Collaboration Presenter: Jerry Spiegel</p>	<p>Chair: Jacqueline Ferguson (United States)</p> <p>Discussant: Ellen Eisen</p> <p>S3.1: Suicide and Job Loss in the Diesel Exhaust in Miners Study II (DEMS II) Presenter: Jacqueline Ferguson</p> <p>S3.2: The impact of job loss on self-injury mortality in a cohort of autoworkers: application of a novel causal approach Presenter: Suzanne Dufault</p> <p>S3.3: Death by Robots? Automation and Working-Age Mortality in the United States Presenter: Atheendar Venkataramani</p> <p>S3.4: Union burying ground: mortality, mortality inequities, and sinking labor-union membership in the United States Presenter: Jerzy Eisenberg-Guyot</p>	<p>Chairs: Margaret Quinn (United States), Homero Harari (United States), Sherry Baron (United States)</p> <p>S4.1: Mixed exposures to cleaning and disinfecting chemicals in healthcare occupations Presenter: Abbas Virji</p> <p>S4.2: Respiratory health impacts of cleaning and disinfecting exposures: does evidence support a link with COPD? Presenter: Orianne Dumas</p> <p>S4.3: Changes in respiratory symptoms, spirometry, and exhaled nitric oxide among home care aides performing cleaning and disinfecting using different products: a longitudinal repeated measures study Presenter: Margaret Quinn</p> <p>S4.4: Identification of Chemical and Disinfectants Products for Exposure and Epidemiological Studies Presenter: Homero Harari</p> <p>S4.5: Risk of asthma among professional cleaners in Denmark – results from a matched register-based cohort study Presenter: Camilla Sandal Sejbæk</p>	<p>Chairs: Kyriaki Papantoniou (Austria), Manolis Kogevinas (Spain)</p> <p>Discussant: Roel Vermeulen Stakeholders: Johannes Gardner, Bernhard Schwarz, David Newman</p> <p>S5.1: Night shift work and cancer risk: where do we stand, where should we go? Presenter: Kyriaki Papantoniou</p> <p>S5.2: Novel mechanisms underlying the carcinogenicity of night shift work Presenter: Parveen Bhatti</p> <p>S5.3: Using metabolomics to track biological clocks in shift work Presenter: Debra J. Skene</p> <p>S5.4: Night shift work interventions – what do we need to know to make a difference? Presenter: Anne Helene Garde</p> <p>S5.5: Shift work and the individual Presenter: Thomas Kantermann</p>	<p>Chairs: Vikki Ho (Canada), France Labrèche (Canada)</p> <p>Discussant: Christopher McLeod</p> <p>S6.1: Gender/sex differences in workers' compensation for hearing loss, concussions and activity-related soft tissue disorder (ASTDs) in British Columbia, Canada Presenter: Mieke Koehoorn</p> <p>S6.2: Gendered occupational inequalities and health over lifetime: how can we work them in? Presenter: Emilie Council</p> <p>S6.3: Sex and gender inequalities: segregation of OHS exposures and preventive avenues for a population of low-educated teenagers entering the labour force Presenter: Marie Laberge</p> <p>S6.4: Challenges of integrating gender theoretical concepts into epidemiological health research Presenter: Gabriele Bolte</p>

Concurrent Session Presentations A

Monday, October 25, 2021

15:15 – 16:15 EDT

Work-Related Stress A1	Musculoskeletal (1) A2	Exposure Assessment: Dust, Fibers & Metals A3	Breast Cancer A4	Specific Occupations A5
<p>Chairs: <i>Itumeleng Ntamatama, Igor Portoghese</i></p> <p>A1.1: Work-related psychosocial risk factors for stress-related disorders: a systematic review and meta-analysis Presenter: Henk Van der Molen</p> <p>A1.2: Contributors to stress and burnout in junior doctors during the COVID-19 pandemic Presenter: Anli Yue Zhou</p> <p>A1.3: All-cause mortality and the time-varying effects of psychosocial work stressors Presenter: Yamna Taouk</p> <p>A1.4: Cognitive impairment and work status among patients with work-related stress: validation of an objective cognitive screener Presenter: Johan Høy Jensen</p> <p>A1.5: Transformational leadership and firefighters' well-being: A study with emergency team professionals Presenter: Mariana Neto</p>	<p>Chairs: <i>Ashish Mishra, Fernando Feijó</i></p> <p>A2.1: Associations between feeling cold at work and work performance in a cold-exposed working population from the Tromsø 6 study Presenter: Morten Skandfer</p> <p>A2.2: Occupational demands associated with rotator cuff disease surgery: results from a novel linkage of a job-exposure matrix to the UK Biobank Presenter: Elizabeth Yanik</p> <p>A2.3: Which Quebec industries and occupations are at risk of work-related musculoskeletal disorders? A comparison of analyses of 2010-2012 workers' compensation and 2014-2015 health survey data Presenter: Susan Stock</p> <p>A2.4: Patterns of opioid dispensing and associated wage replacement duration in workers with accepted claims for low back pain: a retrospective cohort study Presenter: Michael Di Donato</p> <p>A2.5: Pain in healthcare workers: a perspective of multidisciplinary approach Presenter: Simone Fargetti</p>	<p>Chairs: <i>Paul Demers, Stinna Skaaby</i></p> <p>A3.1: Associations of cumulative, alveolar and plasma indium with respiratory health outcomes at an indium-tin oxide manufacturing facility Presenter: Abbas Virji</p> <p>A3.2: Current respirable concentrations of quartz across occupations in Denmark Presenter: Signe Hjulér Boudigaard</p> <p>A3.3: Assessment of overexposure to multiple metals in electronic recycling facilities: using air samples and biomarkers to highlight potential toxicity Presenter: Sabrina Gravel</p> <p>A3.4: Silica Exposure Estimates in Artificial Stone Benchtop Fabrication and Adverse Respiratory Outcomes Presenter: Deborah Glass</p> <p>A3.5: Asbestos exposure in wastewater collection and treatment workers: a literature review and analysis of French exposure databases Presenter: Jean-Francois Sauve</p>	<p>Chairs: <i>Joanne Kim, France Labreche</i></p> <p>A4.1: Breast cancer in Danish women occupationally exposed to diesel exhaust and polycyclic aromatic hydrocarbons Presenter: Julie Pedersen</p> <p>A4.2: Occupational solar exposure and risk of sub-types of breast cancer in Danish women Presenter: Johnni Hansen</p> <p>A4.3: Occupational exposures and breast cancer risk in the CECILE study Presenter: Lisa Leung</p> <p>A4.4: Does understanding occupational male breast cancer help us understand female breast cancer? Presenter: Jeavana Sriharan</p>	<p>Chairs: <i>Veronika Deffner, Stella Koutros</i></p> <p>A5.1: Health, lifestyle and occupational risks in 10,931 Information Technology workers Presenter: Drushca Laloo</p> <p>A5.2: Sensitization and dermatitis among epoxy exposed lamination workers producing wind turbine blades Presenter: Alexandra Golabek Christiansen</p> <p>A5.3: Maternal occupation as a nail technician or hairdresser during pregnancy and birth defects, National Birth Defects Prevention Study, 1997–2011 Presenter: Miriam R. Siegel</p> <p>A5.4: Aluminum Dust Exposure and Risk of Neurodegenerative Diseases in a Cohort of Male Miners in Ontario, Canada Presenter: Xiaoke Zeng</p> <p>A5.5: Asbest Chrysotile Cohort Study profile, exposure distribution and outcomes Presenter: Ann Olsson</p>

Concurrent Session Presentations B

Tuesday, October 26, 2021

11:15 – 12:15 EDT

Lung Cancer & Mesothelioma B1	Policy & Regulation B2	Work Organization B3	Disease Surveillance B4	Biomarkers B5
<p>Chairs: <i>Leslie Stayner, Mengtin Xu</i></p> <p>B1.1: Changing trends for mesothelioma in Canada and their implications Presenter: Paul Demers</p> <p>B1.2: Exploration of occupations as risk factors for lung cancer in multiple exposure hierarchical and penalization models Presenter: Calvin Ge</p> <p>B1.3: Occupational physical activity and lung cancer risk among four cohorts of the Canadian Partnership for Tomorrow Project Presenter: Romain Pasquet</p> <p>B1.4: Occupational and non-occupational factors and lung cancer mortality among workers of the Swiss National Cohort Presenter: Nicolas Bovio</p> <p>B1.5: The role of occupational exposures in lung cancer risk among women: preliminary results from a pooled case-control study of lung cancer Presenter: Mengting Xu</p>	<p>Chairs: <i>Damien McElvenny, Martin Stevens</i></p> <p>B2.1: Effectiveness evaluation of a regulatory training standard to prevent falls from heights in construction Presenter: Lynda Robson</p> <p>B2.2: Policy Issues on Work and Employment in Small Scale Mining Industries in the Philippines Presenter: Sophia Francesca Lu</p> <p>B2.3: Evolution of health inequalities in the Central American working population, 2011 – 2018 Presenter: Michael Silva-Peñaherrera</p> <p>B2.4: Setting Priorities in Occupational Health Research in Europe Presenter: Manolis Kogevinas</p>	<p>Chairs: <i>Rajiv Kumar Jain, Samira deGroot</i></p> <p>B3.1: Work environment characteristics among marginal part-time workers in Denmark Presenter: Helena Breth Nielsen</p> <p>B3.2: Validity and reliability properties of the Multifaceted Organizational Health Climate Assessment for measuring organizational health climate in service, clerical, and health care workers Presenter: Ryan Walsh</p> <p>B3.3: Changes in weekly working hours and time spent on direct patient care for doctors in Norway from 2016 to 2019: a study based on repeated surveys Presenter: Judith Rosta</p> <p>B3.4: The impact of within-individual changes in working conditions, health behaviour and BMI on work ability and self-rated health: a fixed-effects analysis among Dutch workers Presenter: David van de Ven</p> <p>B3.5: Examining variations in work disability duration by firm size: a comparative study of workers' compensation claims in Canada and Australia Presenter: Chris McLeod</p>	<p>Chairs: <i>Évelyne Cambron-Goulet, Parveen Bhatti</i></p> <p>B4.1: The value of plain chest radiograph as a diagnostic tool for TB relative to GeneXpert among ex-gold miners in Lesotho Presenter: Botembetume Maboso</p> <p>B4.2: Enhancing occupational disease surveillance using a job exposure matrix Presenter: Ashley Lau</p> <p>B4.3: Lung and bladder cancer surveillance among construction workers in diesel engine exhaust exposed occupations in Ontario, Canada Presenter: Stephanie Ziembicki</p> <p>B4.4: How to predict obstructive sleep apnoea in professional drivers? Presenter: Elisabeta Pletea</p> <p>B4.5: Temporal trend and spatial pattern of mortality for malignant pleural mesothelioma in Taiwan during 1975-2019 Presenter: Jing-Yi Wu</p>	<p>Chairs: <i>Jennifer Ritonja, Jonathan Hofmann</i></p> <p>B5.1: Altered levels of immune markers among male rotating night shift workers in Spain – the HORMONIT study Presenter: Barbara Harding</p> <p>B5.2: Literature review of biological monitoring studies to assess healthcare worker's exposure to antineoplastic drugs Presenter: Naqiyah Motiwala</p> <p>B5.3: DNA damage in lymphocytes of female farmers measured using the alkaline comet assay. Presenter: Poppy Evenden</p> <p>B5.4: Urinary pesticide metabolite levels among farm workers in Malaysia: Pilot results from the IMPRESS study Presenter: Zulkhairul Naim Bin Sidek Ahmad</p> <p>B5.5: The Biochemical Effects Of Lead Concentration On Oxidative Stress Parameters In Workers Presenter: Mehrzad Ebrahemzadih</p>

Rapid Fire Presentations 1

Tuesday, October 26, 2021

12:45 – 13:15 EDT

Burden of Disease RFA1	Agricultural Exposures RFA2	Shiftwork RFA3
<p><i>Chair: Marc Schenker</i></p> <p>RFA1.1: Estimating the burden of cardiovascular diseases and depression attributable to psychosocial work exposures in 28 European Union countries Presenter: H�el�ene Sultan-Ta�ieb</p> <p>RFA1.2: Occupational factors related to musculoskeletal diseases (MSD) among nursing aides in nursing home in Taiwan Presenter: Isabella Yu-Ju Hung</p> <p>RFA1.3: Cause-specific mortality and site-specific cancer incidence among greenspace workers in the AGRICAN cohort study. Presenter: Lucie De Graaf</p> <p>RFA1.4: Sickness absence and mechanical and psychosocial work exposures across occupational groups in Norway Presenter: Karina Udem</p> <p>RFA1.5: Occupational risk of salmonellosis and campylobacteriosis: a nationwide population-based registry study Presenter: Janneke Duijster</p>	<p><i>Chair: Saloshni Naidoo</i></p> <p>RFA2.1: Agricultural exposures and risk of ovarian cancer in the AGRiculture and CANcer (AGRICAN) cohort Presenter: Marine Morin Renier</p> <p>RFA2.2: Exposure to pesticides and risk of Hodgkin lymphoma in an international consortium of agricultural cohorts (AGRICOH) Presenter: Joanne Kim</p> <p>RFA2.3: Collecting real-time self-reported information on intermittent agricultural activities using smartphones Presenter: Pabitra Josse</p> <p>RFA2.4: Occupational Risk Exposures to Pesticides Among Farmers and Farmworkers in Philippines Presenter: Jinky Leilanie Lu</p> <p>RFA2.5: Agricultural exposures and risk of Lymphoplasmacytic lymphoma/Waldenstr�om's macroglobulinemia in the AGRiculture and CANcer (AGRICAN) cohort Presenter: Amandine Busson</p>	<p><i>Chair: Mary Schubauer-Berigan</i></p> <p>RFA3.1: The Association between Shift Work, Mental Health and Cardiometabolic Health in the Atlantic PATH Cohort Presenter: Ellen Sweeney</p> <p>RFA3.2: Determinants of sleep patterns in health care professionals working permanent night shifts or rotating day shifts: a multivariate analysis based on one-week sleep diaries and sensor data Presenter: Pascal Guenel</p> <p>RFA3.3: Duration of night shift work is associated with age acceleration in hypersusceptible female nurses Presenter: Michele Carugno</p> <p>RFA3.4: Night Work Characteristics and Incidence of Coronary Heart Disease: Exposure-response Relations Presenter: Jesper Medom Vestergaard</p> <p>RFA3.5: Night shift work increases the risk of diabetes: a 17-year follow-up cohort study among Asian healthcare workers Presenter: Wan-Chin Chen</p>

Concurrent Session Presentations C

Tuesday, October 26, 2021

15:15 – 16:15 EDT

Sex & Gender C1	Respiratory Effects C2	Musculoskeletal (2) C3	Job Control C4	Methods C5
<p>Chairs: <i>Melissa Friesen, Anli Yue Zhou</i></p> <p>C1.1: Workplace injuries and illness: What difference do sex and gender make? A systematic review Presenter: Aviroop Biswas</p> <p>C1.2: Gender-based violence and harassment and the incident purchase of psychotropic medication. A prospective cohort study on the Swedish working population Presenter: Katrina Blindow</p> <p>C1.3: Association of child neurodevelopmental and behavioural problems with maternal unemployment in a population-based birth cohort Presenter: Joana Amaro</p> <p>C1.4: The role of gender in the association between sexual harassment at work and suicidal ideation: a study with civil servants from a middle-income country Presenter: Fernando Feijó</p> <p>C1.5: Men and women at work in Canada, 1991-2016 Presenter: Emma Quinn</p>	<p>Chairs: <i>Signe Boudigaard, Tor Erik Danielsen</i></p> <p>C2.1: Occupational inhalant exposures and longitudinal lung function decline Presenter: Stinna Skaaby</p> <p>C2.2: Lifetime occupational exposures and chronic obstructive pulmonary disease (COPD) risk in the UK Biobank Cohort Presenter: Sara De Matteis</p> <p>C2.3: A population perspective for the prevention of occupational asthma (European Community Respiratory Health Survey-ECRHS) Presenter: Manolis Kogevinas</p> <p>C2.4: Styrene associated respiratory outcomes among reinforced plastic industry workers. Presenter: Zanele Zulu</p> <p>C2.5: Chronic respiratory disease in the Ontario mining industry Presenter: Colin Berriault</p>	<p>Chairs: <i>Karen Walker-Bone</i></p> <p>C3.1: Workers on Prolonged Work Disability for Musculoskeletal Disorders do not worry for nothing Presenter: Marie-France Coutu</p> <p>C3.2: Prevalence and risk factors for work-related neck pain in civil Servants: A Systematic review Presenter: Ivan Manuel Nicolau França Chivambo</p> <p>C3.3: Does heavy physical workload or low decision authority aggravate the effect of musculoskeletal pain on the risk of poor self-reported physical workability? A cohort study of Swedish men and women Presenter: Kathryn Badarin</p> <p>C3.4: Prevalence, predictors and wage replacement duration associated with diagnostic imaging in Australian workers with accepted claims for low back pain: a retrospective cohort study Presenter: Michael Di Donato</p> <p>C3.5: Occupational lifting, pushing and risk of subacromial impingement syndrome surgery: a quantitative risk assessment Presenter: Annett Dalbøge</p>	<p>Chair: <i>Jacqueline Ferguson. Ann Dyreborg Larsen</i></p> <p>C4.1: Self-rostering and sickness absence – a Danish cohort study on payroll data Presenter: Ann Dyreborg Larsen</p> <p>C4.2: Changes in job control and perceptions of general health: A longitudinal analysis of Australian workers, 2005-2017 Presenter: Yamna Taouk</p> <p>C4.3: The mediating role of unhealthy behaviors and body mass index in the relationship between high job strain and self-rated poor health among lower educated workers Presenter: Sandra van Oostrom</p> <p>C4.4: Latent profile analysis: an alternative perspective on job sub-types of the Job Demand–Control–Support model Presenter: Igor Portoghese</p> <p>C4.5: Determinants of burnout among teachers: a systematic review of longitudinal studies Presenter: Dragan Mijakoski</p>	<p>Chairs: <i>Ellen Eisen, Calvin Ge</i></p> <p>C5.1: Occupational Health: A Multi-Cohort Job Title Cleaning Project by Algorithm Presenter: Ellen Sweeney</p> <p>C5.2: Correcting the reference life table in mortality analysis: application in a cohort of sewer workers Presenter: Michel Grzebyk</p> <p>C5.3: Evaluating the impact of sex and gender on the performance of machine learning for auto encoding of job titles Presenter: Christopher J. O. Baker</p> <p>C5.4: An application of a pseudolikelihood approach in a counter-matched study of bladder cancer in a cohort of steel workers exposed to metalworking fluid mists Presenter: Michel Grzebyk</p> <p>C5.5: Concordance between the Canadian job-exposure matrix (CANJEM) and expert assessment in occupational exposure assessment among jobs held by women Presenter: Mengting Xu</p>

Concurrent Session Presentations D

Wednesday, October 27, 2021

11:15 – 12:15 EDT

Return to Work D1	Aging Workforce D2	Injuries D3	Cardiovascular D4	Shiftwork D5
<p>Chairs: Alex Burdorf, Ping Shih</p> <p>D1.1: Employees receiving inpatient treatment for common mental disorders in Germany: Factors associated with time to first and full return to work Presenter: Alexandra Sikora</p> <p>D1.2: Association between patterns of return-to-work trajectories and long-term depressive symptoms among breast cancer survivors Presenter: Mélanie Bertin</p> <p>D1.3: Return to work and job loss following hip replacement: findings from two longitudinal cohorts Presenter: Elena Zaballa</p> <p>D1.4: Immigrant workers and work disability duration in British Columbia, Canada Presenter: Mieke Koehoorn</p> <p>D1.5: Associations of employment sector and occupational exposures with full and part-time sickness absence: random and fixed effects analyses on panel data Presenter: Elli Hartikainen</p>	<p>Chairs: John Beard, Lilah Rinsky Halivni</p> <p>D2.1: Association of Perceived Job Security and Chronic Health Conditions with Retirement in Older UK and U.S Workers Presenter: Miriam Mutambudzi</p> <p>D2.2: Understanding age differences in retirement expectations using data from the Canadian Longitudinal Study on Aging Presenter: Jonathan Fan</p> <p>D2.3: The complex association of perceived workplace safety, work environment, and national factors with the mental health of aging workers in Europe during the COVID-19 pandemic Presenter: Lilah Rinsky Halivni</p> <p>D2.4: Effects of changes in early retirement policies on labor force participation: the differential effects for vulnerable groups Presenter: Karen Oude Hengel</p> <p>D2.5: The influence of work-related factors on retirement decisions in the UK. The Health and Employment After Fifty Factors Influencing Retirement study (HEAF FIRST), a mixed-methods study Presenter: Martin Stevens</p>	<p>Chairs: France Labreche, Aviroop Biswas</p> <p>D3.1: Small Scale Mining in the Philippines: Occupational and Environmental Health Implication Presenter: Jinky Leilanie Lu</p> <p>D3.2: Effect of exposure to psychosocial work factors on the occurrence of workplace injuries Presenter: Stephanie Boini</p> <p>D3.3: Under-reporting of non-fatal Occupational Injuries among precarious and non-precarious workers in Sweden Presenter: Bertina Kreshpaj</p> <p>D3.4: Difference in the Deaths of Despair by Occupation, Massachusetts, 2000-2015 Presenter: Devan Hawkins</p> <p>D3.5: Workplace wellness program interest, participation barriers, and associations with sociodemographics, health status, and workplace factors: A survey of workers with work-related permanent impairments Presenter: Jeanne Sears</p>	<p>Chairs: Geoffrey M. Calvert, Amira Omrane</p> <p>D4.1: Risk of myocardial infarction among pigeon breeders exposed to organic dust Presenter: Sandra Ileby Rokkedrejer</p> <p>D4.2: Associations among working hours, rotating shift works, and risk of cardiovascular diseases in Taiwan: analyses from the national level to the company level Presenter: Ro-Ting Lin</p> <p>D4.3: Occupation and incident stroke in a U.S. general population cohort 45 years of age or older (REGARDS study) Presenter: Tran Huynh</p> <p>D4.4: The occupational distribution of MetS prevalence and incidence differs by sex and is not explained by age and health behavior: Results from 75,000 Dutch workers from 40 occupational groups Presenter: Sander van Zon</p>	<p>Chairs: Henrik Kolstadt, Barbara Harding</p> <p>D5.1: Shift work and breast cancer. A cohort study from Finland based on survey and payroll data Presenter: Mikko Härmä</p> <p>D5.2: Exploring the impact of night shift work and melatonin on methylation in circadian genes Presenter: Jennifer Ritonja</p> <p>D5.3: Night shift work, sleep disorders and lung cancer risk among women: results from a population-based case-control study in France (the WELCA study) Presenter: Emilie Cordina-Duverger</p> <p>D5.4: The association between night shift work and risk of breast cancer: results from the Nightingale Study Presenter: Nina Berentzen</p> <p>D5.5: Beyond night work: why shift work without night work may still be harmful Presenter: Jacqueline Ferguson</p>

Rapid Fire Presentations 2

Wednesday, October 27, 2021

12:45 – 13:15 EDT

Work Organization and Return to Work RFB1	Exposure Assessment RFB2	Surveillance RFB3
<p>Chair: <i>Mieke Koehoorn</i></p> <p>RFB1.1: Association between mental health symptoms and shiftwork among Filipino women factory workers Presenter: Jinky Leilanie Lu</p> <p>RFB1.2: Does participation in modified return to work differ for immigrant compared to Canadian-born workers in British Columbia, Canada? Presenter: Mieke Koehoorn</p> <p>RFB1.3: Rates of return to work and work ability following knee replacement Presenter: Elena Zaballa</p> <p>RFB1.4: Music professors: ambassadors for the prevention of hearing loss in musicians Presenter: Pierangela Simões</p> <p>RFB1.5: Workplace Psychosocial Hazards are associated with Emotional Distress and Burnout in Civil Aviation Pilots Presenter: Chung-Yen Chen</p>	<p>Chair: <i>Hans Kromhout</i></p> <p>RFB2.1: Evaluating approaches designed to increase sensitivity of capturing work task information in a multi-center hospital-based case-control study in Asia Presenter: Sarah Locke</p> <p>RFB2.2: Occupational exposure to agents and substances in the CARTaGENE cohort Presenter: Nolwenn Noisel</p> <p>RFB2.3: Keyword searches of O*NET job tasks for exposure assessment, United States of America Presenter: John Beard</p> <p>RFB2.4: The rate of noise-induced hearing loss in relation to occupational noise exposure among workers in Israel Presenter: Nyasha Makaruse</p> <p>RFB2.5: Multifactorial approach for assessing work ability among nursing staff in Monastir Teaching Hospital, Tunisia Presenter: Irtyah Merchaoui</p>	<p>Chair: <i>Ellen Sweeney</i></p> <p>RFB3.1: Surveillance of COVID-19 cases among medical laboratory staff in South Africa Presenter: Kerry Wilson</p> <p>RFB3.2: Occupational skin disease surveillance using a clinical patch test database over time: the results of the North American Contact Dermatitis Group: 2001-2016. Presenter: D. Linn Holness</p> <p>RFB3.3: Work-related head Injury and industry sectors in Finland – causes and circumstances Presenter: Ari Kaukiainen</p> <p>RFB3.4: Scorpion sting in domestic service workers (homemakers) in Brazil: an epidemiological approach Presenter: Ana Caroline Caldas Almeida</p> <p>RFB3.5: Overlapping Vulnerabilities in Workers of the Electronics Recycling Industry Formal Sector Presenter: Diana Ceballos</p>

Concurrent Session Presentations E

Wednesday, October 27, 2021

14:00 – 15:15 EDT

COVID-19 (1) E1	Radiation E2	Psychosocial & Mental Health (1) E3	Cancer E4	Interventions E5
<p>Chairs: Neil Pearce, Christine Cramer</p> <p>E1.1: Occupational risk factors for SARS-CoV-2 infection and COVID-19: Results from the COVICAT cohort study in Catalonia, Spain. Presenter: Kurt Straif</p> <p>E1.2: Risk of inpatient care with covid-19 in different occupational groups: the role of close human contacts in the work environment Presenter: Magnus Alderling</p> <p>E1.3: Low back pain occurrence and evolution in different work situations during covid-19 epidemic lockdown from 17 March to 10 May 2020, in metropolitan France Presenter: Natacha Fouquet</p> <p>E1.4: Impact of the COVID-19 pandemic on key workers in England: findings from the Health and Employment After Fifty (HEAF) Study Presenter: Stefania D'Angelo</p> <p>E1.5: Occupational characteristics associated with SARS-CoV-2 infection in the UK Biobank during August-November 2020 Presenter: Elizabeth Yanik</p> <p>E1.6: An umbrella review of the work and health impacts of working in a pandemic environment Presenter: Jonathan Fan</p>	<p>Chairs: Michelle Turner, Alberto Modenese</p> <p>E2.1: Cancer mortality through 2016 among uranium miners on the Colorado Plateau: interactions of radon with smoking and time since exposure Presenter: Mary Schubauer-Berigan</p> <p>E2.2: Does radon cause diseases other than lung cancer? Results from the German uranium miner cohort study Presenter: Nora Fenske</p> <p>E2.3: Radon exposure and risk of death from circulatory system diseases among a large cohort of uranium miners - the PUMA study Presenter: Estelle Rage - de Moissy</p> <p>E2.4: Solar UVR exposure among outdoor workers in Alberta: Measurements and protective behaviours Presenter: Cheryl Peters</p> <p>E2.5: Mortality in a cohort of German underground uranium miners, 1960-2013 Presenter: Veronika Deffner</p> <p>E2.6: Occupational exposure levels of solar ultraviolet radiation: an EPHOR review Presenter: Else Toft Würtz</p>	<p>Chairs: Sandra van Oostrom, Chung-Yen Chen</p> <p>E3.1: The Impact of Workplace Social Support on Mental Health Functioning: A Cohort Study of the Workforce in Stockholm County, Sweden Presenter: Kathryn Badarin</p> <p>E3.2: "It's like juggling, constantly trying to keep all balls in the air": A qualitative study of the support needs of working caregivers taking care of an older adult Presenter: Eline Vos</p> <p>E3.3: Relations between work-related factors and depression and injury among janitors Presenter: Andrew Ryan</p> <p>E3.4: Work functioning among young adults: The role of mental health problems from childhood to young adulthood Presenter: Samira de Groot</p> <p>E3.5: Long-term employment status among patients with suspected work-related mental health problems: A 5-year follow-up study Presenter: Marianne Kyndi</p> <p>E3.6: Job strain, low social support from supervisors and material handling among brazilian workers: a study on ethnicity and work Presenter: Janaína Siqueira</p>	<p>Chairs: Christine Barul, Debra Silverman</p> <p>E4.1: Diesel exhaust exposure and somatic mutations in bladder tumors Presenter: Stella Koutros</p> <p>E4.2: Exposure to carbamate insecticides and risks of non-Hodgkin lymphomas in the French Agriculture and Cancer cohort (AGRICAN) Presenter: Kenza Abdelmalki</p> <p>E4.3: Incidence of potentially exposure-related cancer sites among Norwegian firefighters: 58 years of follow-up Presenter: Niki Marjerrison</p> <p>E4.4: Early detection of prostate cancer in firefighters – a register-based study of prognostic factors and survival Presenter: Jarle Jakobsen</p> <p>E4.5: Cancer surveillance among plastics and rubber manufacturing workers in Ontario, Canada Presenter: Nathan DeBono</p> <p>E4.6: Colorectal cancer among farmers in the AGRICAN cohort study Presenter: Madar Talibov</p>	<p>Chairs: Ioannis Basinas, Michael Di Donato</p> <p>E5.1: Complex intervention to prevent and manage musculoskeletal pain in nursing staff at work: cost-effectiveness of a clustered randomized controlled trial (INTEVAL_Spain) Presenter: Merce Soler-Font</p> <p>E5.2: Evaluating program effectiveness on return-to-work after work-related injury in the construction sector Presenter: Chris McLeod</p> <p>E5.3: Pilot testing two take-home exposure prevention educational sessions with construction workers and their families Presenter: Grant Tore</p> <p>E5.4: Barriers and Facilitators for Participation in Workplace Health Promotion Programs: Peer-to-Peer Interviews Among Employees Presenter: Denise Smit</p> <p>E5.5: Assessment of Multidisciplinary Intervention of Occupational Medicine and Physiotherapy on Return to Work of Patients with Musculoskeletal Disorders Presenter: Talal Ibrahim</p> <p>E5.6: Evaluating changes to sickness absence in prison staff following the implementation of a national prison smokefree policy Presenter: Evangelia Demou</p>

Rapid Fire Presentations 3

Wednesday, October 27, 2021

15:45 – 16:15 EDT

Psychosocial & Mental Health RFC1	Cancer RFC2	Respiratory RFC3
<p>Chair: <i>Chris McLeod</i></p> <p>RFC1.1: Age and gender differences in perceived work-related mental health in New Zealand Presenter: Trang Khieu</p> <p>RFC1.2: Association between workplace bullying and acute and chronic low back pain in civil servants from a middle-income country Presenter: Fernando Feijó</p> <p>RFC1.3: The Population Major Depressive Disorder In The Years After Severe Wildfires In Portugal Centro Region: The Role Of Perceived Health Status, Health Vulnerability, Resilience And Sense Of Coherence Presenter: Mariana Neto</p> <p>RFC1.4: Does the timing and duration of mental health problems during childhood and adolescence matter for labour market participation of young adults? Presenter: Samira de Groo</p> <p>RFC1.5: Adolescent trainees with learning disabilities on occupational health and safety: perception of risks and gender differences Presenter: Myriam Bérubé</p>	<p>Chair: <i>Manolis Kogevinas</i></p> <p>RFC2.1: Long working hours and prostate cancer risk: results from a population-based case-control study Presenter: Charlotte Salmon</p> <p>RFC2.2: The exposure response relation between occupational exposure to wood dust and sinonasal cancer Presenter: Marie Kempf Frydendahl</p> <p>RFC2.3: The occupational environment and ovarian cancer risk Presenter: Lisa Leung</p> <p>RFC2.4: Reincorporation to labour market of a sample of cancer survivors in Catalonia (Spain) between 2012 and 2015. A comparison between women and men. Presenter: Amaya Ayala-Garcia</p> <p>RFC2.5: Inter-rater reliability of occupational exposure assessment in a case-control study Presenter: Emmanuelle Batisse</p>	<p>Chair: <i>Colin Berriault</i></p> <p>RFC3.1: Asbestos-related disease in the Ontario Asbestos Workers Register Presenter: Victoria H Arrandale</p> <p>RFC3.2: Work-related respiratory symptoms and eczema among Swedish eyelash stylists Presenter: Sara Gunnare</p> <p>RFC3.3: Occupational Rhinitis and Asthma Caused by Isocyanates Presenter: Siwar Chemingui</p> <p>RFC3.4: Respiratory and allergic symptoms in cannabis cultivation workers, California, US Presenter: Stella Beckman</p> <p>RFC3.5: Cardiorespiratory fitness of police recruits: Norm-referenced values and 14-year temporal trend. Presenter: Sébastien Poirier</p>

Symposia Presentations 2

Thursday, October 28, 2021 (11:15 – 12:45 EDT)

S7: Occupational Health from a Life Course Perspective	S8: A Roadmap for Artificial Intelligence and Occupational Health in the 21st Century	S9: Key Characteristics of Carcinogens: Effective Use of Mechanistic Evidence from Occupational Epidemiology Studies in Cancer Hazard Identification	S10: Occupation & COVID-19	S11: Coordination and Harmonization of Occupational Cohorts, the International OMEGA-NET Network	S12: AGRICOH: A Consortium of Agricultural Cohorts
<p>Chair: Anjum Hajat (United States)</p> <p>S7.1: Young people's depressive symptom trajectories and their education and employment. Comparing Canada and the United States Presenter: Anita Minh</p> <p>S7.2: The working lives of Generation Y: Approach and challenges Presenter: Karin Veldman</p> <p>S7.3: Multidimensional employment quality, retirement trajectories and cardiometabolic health in later life in the US Presenter: Sarah Andrea</p> <p>S7.4: Are early working life patterns related to the course of future sickness absence due to common mental disorders? Presenter: Amaya Ayala-Garcia</p>	<p>Chairs: Ellen Sweeney (Canada)</p> <p>S8.1: Introduction to the challenges of occupational coding Presenter: Cheryl Peters</p> <p>S8.2: The application of artificial intelligence in the coding of occupational information Presenters: Anil Adisesh, Christopher J. O. Baker</p> <p>S8.3: Automated Occupational Encoding to the Canadian National Occupation Classification using an Ensemble Classifier from TF-IDF and Doc2Vec Embeddings Presenter: Cesar Augusto Suarez Garcia</p> <p>S8.4: SOCcer 2.0 and SOCcer in the Field: Moving from coding occupation after data collection to coding in real time by study subjects Presenter: Melissa Friesen</p> <p>S8.5: An Integrated Database of Occupational Information From O*NET-SOC and the Canadian Career Handbook Presenter: Vadym Babiuk</p> <p>S8.6: Artificial intelligence and Occupational Health Presenter: Roel Vermeulen</p>	<p>Chair: Mary K. Schubauer-Berigan (France)</p> <p>S9.1: Use of mechanistic evidence from occupational studies in cancer hazard identification: the experience of the IARC Monographs Programme Presenter: Mary Schubauer-Berigan</p> <p>S9.2: Introduction to the key characteristics approach to interpreting mechanistic data Presenter: Martyn Smith</p> <p>S9.3: Mechanistic evidence from population studies of welding fume exposure and cancer risk Presenter: David Christiani</p> <p>S9.4: Mechanistic evidence in population studies on night shift and cancer Presenter: Manolis Kogevinas</p>	<p>Chairs: Martie van Tongeren (United Kingdom), Neil Pearce (United Kingdom)</p> <p>S10.1: The role of environmental assessment in workplace COVID-19 outbreak investigation to understand SARS-CoV-2 transmission Presenter: Chris Keen</p> <p>S10.2: Methodological issues in studying occupational differences in risk of Covid-19 Presenter: Neil Pearce</p> <p>S10.3: Risk of exposure to a SARS-CoV-2 infection at work: development of a Job Exposure Matrix (COVID-19-JEM) for Denmark, the Netherlands and the United Kingdom Presenter: Karen Oude Hengel</p> <p>S10.4: Occupation and COVID-19 mortality in England: a national linked data study of 14.3 million adults Presenter: Martie Van Tongeren</p> <p>S10.5: Comparison of reported relative risks for health care, transport, and food processing workers Presenter: Sarah Rhodes</p>	<p>Chairs: Ingrid Sivesind-Mehlum (Norway), Michelle C. Turner (Spain)</p> <p>S11.1: OMEGA-NET inventory of occupational cohorts Presenter: Michelle Turner</p> <p>S11.2: OMEGA-NET Inventory of Occupational Exposure Assessment Tools Presenter: Susan Peters</p> <p>S11.3: Working life, health and well-being of parents: a joint effort to uncover hidden treasures in birth cohorts Presenter: Milena Maule</p> <p>S11.4: Occupational Burnout: Definition, Measure and Predictors Presenter: Irina Guseva Canu</p> <p>S11.5: COVID-19 and the Workplace Presenter: Lode Godderis</p>	<p>Chairs: Laura Beane Freeman (United States), Pierre Lebaillly (France)</p> <p>S12.1: Exposure assessment for pooling projects within the AGRICOH consortium Presenter: Hans Kromhout</p> <p>S12.2: Cancer incidence in agricultural workers: an international consortium of agricultural cohort studies (AGRICOH) Presenter: Kayo Togawa</p> <p>S12.3: Exposure to pesticides and cancer of the lymphohematopoietic system in the AGRICOH cohort consortium Presenter: Karl-Christian Nordby</p> <p>S12.4: Neurological diseases in farmers: opportunities within the AGRICOH consortium Presenter: Isabelle Baldi</p> <p>S12.5: Respiratory Disease in the AGRICOH Consortium from six continents Presenter: Isabella Annesi-Maesano</p>

Concurrent Session Presentations F

Thursday, October 28, 2021

14:00 – 15:15 EDT

COVID-19 (2) F1	Pesticides F2	Exposure-Assessment F3	Psychosocial & Mental Health (2) F4	Heat & Climate Change F5
<p>Chairs: <i>Marissa Baker, Stefania D'Angelo</i></p> <p>F1.1: Are healthcare workers using personal protective equipment during the COVID-19 pandemic? Presenter: Christine Cramer</p> <p>F1.2: Covid-19 infection and mental wellness in a Canadian cohort study of healthcare workers Presenter: Nicola Cherry</p> <p>F1.3: COVID-19 Infection Among Healthcare Workers At Malaysia Hospitals Presenter: Abdul Aziz Harith</p> <p>F1.4: SARS-CoV-2 antibody seroprevalence among firefighters in Orange County, California Presenter: Ian Tang</p> <p>F1.5: Vaccine Hesitancy among Canadian Paramedics during the COVID-19 Pandemic Presenter: David O'Neill</p> <p>F1.6: Levels of Anxiety and Depression and the perceived risk of COVID-19 at work Presenter: Priscilla Ming Yi Lee</p>	<p>Chairs: <i>Pascal Wild, Amandine Busson</i></p> <p>F2.1: Exposure to chloroacetamide herbicides in agriculture and Lymphoid Malignancies, overall and by subtypes, in the AGRiculture and CANcer (AGRICAN) cohort. Presenter: Amandine Busson</p> <p>F2.2: Recall ability of pesticide users in Uganda and the UK: results from the IMPRESS study Presenter: Will Mueller</p> <p>F2.3: Pesticide exposure during application with backpack sprayers in greenspaces: a field study on glyphosate application Presenter: Mathilde Boulanger</p> <p>F2.4: Permethrin use and circulating immunologic markers: a longitudinal investigation in the Biomarkers of Exposure and Effect in Agriculture study Presenter: Vicky C Chang</p> <p>F2.5: Translating Observational Research into Regulatory Science: The Role of U.S. EPA's Office of Pesticide Programs in Evaluating Epidemiologic Evidence Presenter: Aaron Niman</p> <p>F2.6: Evaluation of exposure to pesticides through the use of effect biomarkers in rural workers and rural residents in Rio de Janeiro State – Brazil Presenter: Juliana Amazonas</p>	<p>Chairs: <i>Sabrina Gravel, Abbas Virji</i></p> <p>F3.1: Assessment of multiple exposures to chemical agents in French workplaces: findings from two exposure databases Presenter: Jean-Francois Sauve</p> <p>F3.2: Development of task-specific endotoxin concentrations for agricultural activities using meta-regression of published data Presenter: Shuai Xie</p> <p>F3.3: Determinants of task-based exposures to alpha-diketones in coffee roasting and packaging facilities Presenter: Brie Blackley</p> <p>F3.4: Assessing Occupational and Environmental Deployment-Related Military Exposure Among U.S. Veterans Presenter: Paul D. Blanc</p> <p>F3.5: Pesticide exposure in fruit growers: comparison of levels and determinants from the CANEPA field study and from the "Agricultural Operator Exposure Model" (AOEM) predictions Presenter: Morgane Bresson</p> <p>F3.6: Impact of occupational pesticide exposure assessment methods on risk estimates for prostate cancer, non-Hodgkin's lymphoma and Parkinson's disease – results of three meta-analyses Presenter: Johan Ohlander</p>	<p>Chairs: <i>Margaret Quinn, Fernando Feijo</i></p> <p>F4.1: Mental health in childhood and adolescence matters: Linking mental health trajectories with employment outcomes in young adulthood Presenter: Marlene Amalie Magerl</p> <p>F4.2: Long-term prognosis for health care utilization among patients with work-related mental disorders Presenter: Morten Vejs Willert</p> <p>F4.3: Workplace violence among women in industrial factories Presenter: Alireza Dehdashti</p> <p>F4.4: Occupational daytime light exposure and risk of initiating antidepressant treatment among men and women: a national follow-up study Presenter: Anne Vested</p> <p>F4.5: Mental health in a sample of 72,452 workers from 8 countries of Latin America: results of health and working conditions surveys Presenter: Paula Santia</p> <p>F4.6: Work-life interference and subsequent long-term sickness absence. A longitudinal study of the Swedish working population. Presenter: Emma Hagqvist</p>	<p>Chairs: <i>Sandra Cortes, Richard Remigio</i></p> <p>F5.1: Heat-related acute kidney injury in indoor and outdoor workers in the U.S. Presenter: Aaron Tustin</p> <p>F5.2: Protection, Resilience, Efficiency and Prevention (PREP), preparing workers and employers for a changing climate Presenter: Jason Glaser</p> <p>F5.3: Occupational heat exposures, physiological responses and renal health outcomes among Brick workers in South India Presente: PK Latha</p> <p>F5.4: Hot ambient temperature and its impacts on Adverse Pregnancy Outcome (APO) -A Systematic Review Presenter: Rekha S</p> <p>F5.5: Occupational heat exposures and renal health implications – A cross-sectional study among commercial kitchen workers in South India Presenter: Vidhya Venugopal</p> <p>F5.6: Risk factors for elevated core body temperature in farmworkers Presenter: Marc Schenker</p>