



28<sup>th</sup> International Symposium on  
Epidemiology in Occupational Health

From the Workplace to the Population:  
Exposure and Prevention

October 25-28, 2021

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# Symposia Presentations



# SYMPOSIA PRESENTATIONS 1

MONDAY, OCTOBER 25, 2021

11:45 – 13:15 EDT

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

# SYMPOSIA PRESENTATIONS 2

THURSDAY, OCTOBER 28, 2021

11:15 – 12:45 EDT

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