

Sunday 27th August 2017

Early Career Researchers - Meet & Greet

19:00-22:00 Outside Black Bull pub, Grassmarket, before some Fringe Festival events at Espionage

Monday 28th August 2017

East Lothian Industrial Heritage Tour (Pre-paid tickets required - see EPICOH 2017 website)

10:00-16:00 Meet at EICC

Conference Registration

13:30-18:15 Strathblane Hall

Note: Speaker preview room is Lomond Foyer

Pre-conference course - Calculation of person-years and cumulative exposure in cohort studies using Stata

13:00-17:00 Ochil 1 Chair: Dario Consonni

Plenary 1

18:30-19:45 Pentland Chair: Damien McElvenny & John Cherrie

Welcome to Edinburgh by the Lord Provost of Edinburgh

Welcome to EPICOH 2017, Damien McElvenny

0489

19:00-19:45

INVITED KEYNOTE: Does epidemiology count?

Anthony Newman Taylor

Imperial College, London, UK

Drinks & Canapes Reception

19:45-21:00 Cromdale

Fireworks - These are free to view, but there is a ticketed area for which tickets can be bought - contact info@epicoh2017.org if interested

21:30-22:15 Princes Street

Tuesday 29th August 2017

Conference Registration

07:30-18:15 Strathblane Hall

Early Career Researchers - Breakfast Talk - Ageing Workforce

07:45-08:45 Moorfoot

Joanne Crawford

Early Career Researchers - Breakfast Talk - Producing an effective CV

07:45-08:45 Tinto

Kate Venables & David Wegman

Plenary 2

08:45-10:30 Pentland

Chair: Lin Fritschi & Cheng-Kuan Lin

Welcome to EPICOH 2017, Rob Aitken & Damien McElvenny

0392
09:00-
09:45 INVITED KEYNOTE: Fast forward exposure assessment: Understanding precarity as a work-related risk in the new economy
Noah Seixas, Trevor Peckham, Anjum Hajat
University of Washington, Seattle, WA, USA

0483
09:45-
10:30 INVITED KEYNOTE: Sifting the wheat from the chaff in occupational epidemiology – novel approaches to causal understanding
Debbie Lawlor
University of Bristol, Bristol, UK

Coffee

10:30-11:00 Cromdale

Risk Assessment Mini-symposium, including discussion

11:00-12:45 Pentland

Chair: Ruth Lunn & Kurt Straif

0373 Assessing cancer hazards through evidence integration - why is it important?
Neela Guha
IARC, Lyon, France

0091 Evaluating the epidemiological evidence - a comparison of frameworks for assessing individual studies
Barbara Glenn
United States Environmental Protection Agency, Washington, D.C., USA

0474 Risk assessment for non-cancer outcomes
Roel Vermeulen
Utrecht University, Utrecht, The Netherlands

0375 Epidemiologic evidence for risk assessment – How successful have we been?
Dana Loomis
IARC, Lyon, France

Asbestos Mini-symposium, including discussion

11:00-12:45 Sidlaw

Chair: Fintan Hurley & Alison Reid

0104 Current and future asbestos exposure risks in Australia

- Alison Reid
Curtin University, Perth, Western Australia, Australia
- 0071 Validation of ACM Check: A mobile application to screen for asbestos in residential settings
Matthew Govorko
Curtin University, Perth, Western Australia, Australia
- 0420 The "third wave" of asbestos exposure in occupational settings
Tim Driscoll
Sydney School of Public Health, University of Sydney, NSW, Australia
- 0116 Evidence of dose-response in the causation of mesothelioma from environmental exposure
Daniela Ferrante^{1,2}, Corrado Magnani^{1,2}, Dario Mirabelli^{3,4}
¹Dept. Translational Medicine, University of Eastern Piedmont, Novara, Italy, ²Unit of Cancer Epidemiology, Maggiore Hospital and CPO Piemonte, Novara, Italy, ³Unit of Cancer Epidemiology, CPO Piemonte and University of Turin, Torino, Italy, ⁴Interdepartmental Centre G Scansetti for Studies on Asbestos and other Toxic Particulates, University of Turin, Torino, Italy
- 0252 The legacy of *in situ* asbestos cement roofs in South Africa
David Rees^{1,2}, James Ian Phillips^{1,3}
¹National Institute for Occupational Health, National Health Laboratory Service, Johannesburg, South Africa, ²School of Public Health, University of the Witwatersrand, Johannesburg, South Africa, ³Faculty of Health Sciences, Department of Biomedical Technology, University of Johannesburg, Johannesburg, South Africa
- 0343 Past and current asbestos exposure assessed by lung burden and future mesothelioma risks in Britain
Clare Gilham¹, Christine Rake¹, John Hodgson², Andrew Darnton², Garry Burdett², James Peto Wild¹, Michelle Newton³
¹London School of Hygiene and Tropical Medicine, London, UK, ²Health and Safety Executive, Bootle, UK, ³University of Leicester, Leicester, UK
- 0480 Measurement of asbestos fibre release during removal works in a variety of DIY asbestos removal scenarios
Geza Benke¹, Jeremy Trotman²
¹Monash University, VIC, Australia, ²JTA Health, Safety and Noise Specialists, VIC, Australia
- 0362 Risk of pleural MM and residual asbestos burden in the lung: a retrospective case-control study.
Paolo Girardi^{1,2}, Anna Somigliana⁴, Pietro Gino Barbieri⁵, Enzo Merler³
¹Venetian Mesothelioma Registry, Occupational Health Unit, Padua, Italy, ²SER Epidemiological Department, Veneto Region, Padua, Italy, ³Promotion and Development of Hygiene and Public Health, Venice, Italy, ⁴Lombardy Environmental Protection Agency (ARPA), Centre of Electronic Microscopy, Milan, Italy, ⁵Mesothelioma Register of Brescia, Occupational Health Unit, Local Health Authority, Brescia, Italy
- 0424 Risk of mesothelioma and risk of exposure to asbestos in people supposedly unexposed to asbestos
Nicholas de Klerk¹, Len Gordon², Helman Alfonso³, Alison Reid³, Nola Olsen¹, Robin Mina¹, Peter Franklin¹, Susan Peters¹, Fraser Brims³, Jennie Hui⁴, Bill Musk¹
¹University of Western Australia, Perth, Australia, ²Caltex Australia, Perth, Australia, ³Curtin University, Perth, Australia, ⁴PathWest Laboratory Medicine, Nedlands, Australia

Exposure Assessment 1, followed by discussion

11:00-12:45 Fintry

Chair: Hans Kromhout & Tran Huynh

- 0334 The interrelationships between occupational exposures, personal characteristics,
11:00- lifestyle factors and aging. Not a surprise that occupational exposure response

- 11:15 relationships are seldom linear.
Hans Kromhout¹, Theodore Lytras², Jan-Paul Zock², On behalf of the ECRHS III Occupational Working Group²
¹IRAS, Utrecht University, Utrecht, The Netherlands, ²Instituto de Salud Global de Barcelona, Barcelona, Spain
- 0352 Does the size of a company make a difference to the prevalence of exposure?
11:15- *Lin Fritsch¹, Sonia El-Zaemey¹, Ellie Darcey¹, Alison Reid¹, Lesley Rushton², Damien*
11:30 *McElvenny³*
¹Curtin University, Perth, Australia, ²Imperial College, London, UK, ³Institute of Occupational Medicine, Edinburgh, UK
- 0330 Incorporating pre-existing knowledge of within, between-worker, and between-group
11:30- variability into exposure assessment using a Bayesian approach
11:45 *Harrison Quick, Tran Huynh, Igor Burstyn*
Drexel University, Philadelphia, PA, USA
- 0306 Using data from exposure databanks: Comparing measurement levels in LIMS
11:45- (Quebec, Canada) and IMIS (USA)
12:00 *Philippe Sarazin¹, France Labrèche¹, Jacques Lesage³, Jérôme Lavoué²*
¹Institut de recherche Robert-Sauvé en santé et en sécurité du travail, Montréal, Québec, Canada, ²Université de Montréal, Montréal, Québec, Canada, ³Université du Québec à Montréal, Montréal, Québec, Canada
- 0265 Respirator fit and face sizes of South African medical laboratory workers: A false
12:00- sense of protection
12:15 *Kerry Wilson^{1,2}, Jeanneth Manganyi^{1,2}, David Rees^{1,2}*
¹National Institute for Occupational Health, Johannesburg, Gauteng, South Africa, ²University of the Witwatersrand, Johannesburg, Gauteng, South Africa
- 0407 Respiratory irritant exposures during cleaning and disinfecting in home care:
12:15- preliminary results from the Safe Home Care Study
12:30 *Margaret Quinn, Catherine Galligan, John Lindberg, Pia Markkanen, Susan Sama, Rebecca Gore, Noor Sheikh, Nicole Karlsson, David Kriebel, Nancy Goodyear*
University of Massachusetts, Lowell, MA, USA

Shift Work & Disease 1, followed by discussion

11:00-12:45 **Moorfoot**

Chair: Thomas Erren & Gerben Hulsegge

- 0064 Objectively measured non-occupational and occupational physical activity levels of
11:00- shift workers compared to non-shift workers
11:15 *Bette Loef^{1,2}, Debbie van Baarle³, Allard van der Beek², Andreas Holtermann⁴, Karin Proper¹*
¹Center for Nutrition, Prevention and Health Services, National Institute for Public Health and the Environment, Bilthoven, The Netherlands, ²Department of Public and Occupational Health, Amsterdam Public Health research institute, VU University Medical Center, Amsterdam, The Netherlands, ³Center for Immunology of Infectious Diseases and Vaccines, National Institute for Public Health and the Environment, Bilthoven, The Netherlands, ⁴National Research Centre for the Working Environment, Copenhagen, Denmark
- 0447 Night shift-work and risk of prostate cancer in the Danish Military
11:15- *Johnni Hansen, Christina Lassen*
11:30 *Danish Cancer Society Research Center, Copenhagen, Denmark*
- 0333 Night shift work and breast cancer risk: A combined analysis of population-based
11:30- case-control studies with complete work histories
11:45 *Emilie Cordina-Duverger¹, Florence Menegaux¹, Aboubakari Nambiema¹, Sylvia Rabstein², Volker Harth³, Beate Pesch², Thomas Brüning², Lin Fritsch⁴, Deborah Glass⁵, Jane Heyworth⁶, Thomas Erren⁷, Gemma Castaño-Vinyals^{8,10}, Kyriaki Papantoniou^{9,10}, Ana Espinosa^{8,10}, Manolis Kogevinas^{8,10}, Anne Grundy¹³, John J. Spinelli¹, Kristan J. Aronson¹², Pascal Guenel¹*

¹INSERM, CESP (UMRS 1018) Paris-Saclay University, Paris Sud University, Villejuif, France, ²Research Institute of Occupational Medicine of the German Social Accident Insurance (BGFA), Ruhr University Bochum, Bochum, Germany, ³Institute for Occupational and Maritime Medicine (ZfAM), University Medical Center Hamburg-Eppendorf (UKE), Hamburg, Germany, ⁴Western Australian Institute for Medical Research, University of Western Australia, Perth, Australia, ⁵Department of Epidemiology and Preventive Medicine, School of Public Health and Preventive Medicine, Monash University, Melbourne, Australia, ⁶School of Population Health, The University of Western Australia, Nedlands, Australia, ⁷Institute and Policlinic for Prevention Research, University of Cologne, Cologne, Germany, ⁸ISGlobal, Centre for Research in Environmental Epidemiology, IMIM (Hospital del Mar Medical Research Institute), Barcelona, Spain, ⁹Department of Epidemiology, Medical University of Vienna, Vienna, Austria, ¹⁰Universitat Pompeu Fabra (UPF), Barcelona, CIBER Epidemiología y Salud Pública (CIBERESP), Madrid, Spain, ¹¹Department of Cancer Control Research, Cancer Agency; School of Population and Public Health, University of British Columbia, Vancouver, British Columbia, Canada, ¹²Department of Public Health Sciences and Queen's Cancer Research Institute, Queen's University, Kingston, Ontario, Canada, ¹³Department of Social and Preventive Medicine, Université de Montréal, Montreal, Canada

- 0371
11:45-
12:00
Night shift work and prostate cancer risk: Results from the EPICAP study
Gaëlle Wendeu-Foyet¹, Sylvie Cénéé¹, Soumaya BenKhedher¹, Xavier Rébillard², Brigitte Trétarre³, Virginie Bayon⁴, Damien Léger⁴, Marie Sanchez¹, Florence Menegaux¹
¹Université Paris-Saclay, Université Paris-Sud, CESP (Center for Research in Epidemiology and Population Health), Inserm, Team Cancer and Environment, Villejuif, Ile-de-France, France, ²Service Urologie, Clinique Beau Soleil, Montpellier, Occitanie, France, ³Registre des Tumeurs de l'Hérault, Montpellier, Occitanie, France, ⁴Centre du Sommeil et de la Vigilance, Hôtel Dieu, APHP, Université Paris Descartes, Sorbonne Paris Cité, Paris, France; VIFASOM, équipe d'accueil Vigilance Fatigue et Sommeil, Université Paris Descart, Paris, Ile-de-France, France
- 0243
12:00-
12:15
Rotating shift work and prevalence of diabetes mellitus and prediabetes in male employees of a large German chemical company: results of a cross-sectional study
Matthias Claus, Michael Schuster, Christoph Oberlinner, Stefan Webendörfer
BASF SE, Ludwigshafen, Rhineland-Palatinate, Germany
- 0283
12:15-
12:30
Examining exposure assessment in shift work research: a study on depression among nurses
Amy Hall¹, Mieke Koehoorn¹, Renee-Louise Franche²
¹University of British Columbia, Vancouver, Canada, ²WorkSafeBC, Vancouver, Canada

Psychosocial, followed by discussion

11:00-12:45 Tinto

Chair: David Coggon & Ira Madan

- 0332
11:00-
11:15
The impact of organizational change on sickness absence: how much of the effects are mediated by workplace social capital?
Johan Høy Jensen¹, Theis Lange^{2,3}, Esben Meulengracht Flachs¹, Janne Skakon⁴, Naja Hulvej Rod⁵, Jens Peter Ellekilde Bonde¹
¹Department of Occupational and Environmental Medicine, Bispebjerg University Hospital, Copenhagen, Denmark, ²Department of Biostatistics, University of Copenhagen, Copenhagen, Denmark, ³The Center for Statistical Science, Peking University, Peking, China, ⁴Department of Psychology, University of Copenhagen, Copenhagen, Denmark, ⁵Department of Public Health, University of Copenhagen, Copenhagen, Denmark
- 0049
11:15-
11:30
A cohort study of job stress and fatigue on health psychology among professional drivers
Yu Jen Lin¹, Wei Te Wu², Saou Hsing Liou², Yue Liang Guo^{1,2}
¹National Taiwan University, Taipei, Taiwan, ²National Health Research Institutes,

Miaoli, Taiwan

- 0428
11:30-
11:45
Are temporary workers at higher risk of sickness absence due to mental disorders?
Monica Ubalde-Lopez^{1,2}, Laura Serra Saurina^{1,2}, George Delclos^{1,2}, Fernando G Benavides^{3,2}
¹IMIM (Hospital del Mar Medical Research Institute), Barcelona, Spain, ²CIBERESP, CIBER in Epidemiology and Public Health, Madrid, Spain, ³Southwest Center for Occupational and Environmental Health, Division of Epidemiology, Human Genetics, and Environmental Sciences, The University of Texas Health Science Center at Houston, Texas, USA
- 0041
11:45-
12:00
Work-related ill-health in doctors working in Great Britain: Incidence rates and trends
Anli Yue Zhou, Melanie Carder, Matthew Gittins, Raymond Agius
The University of Manchester, Manchester, UK
- 0331
12:00-
12:15
Prolonged perceived stress and saliva cortisol in a large cohort of Danish public service employees: cross-sectional and longitudinal associations
Sigurd Mikkelsen¹, Julie Lyng Forman², Samuel Fink¹, Marianne Agergaard Vammen¹, Jane Frølund Thomsen¹, Matias Brødsgaard Grynderup³, Åse Marie Hansen^{3,4}, Linda Kaerlev^{5,6}, Henrik Albert Kolstad⁷, Rugulies Reiner^{3,4}, Jens Peter Bonde¹
¹Department of Occupational and Environmental Medicine, Bispebjerg University Hospital, Copenhagen, Denmark, ²Section of Biostatistics, Department of Public Health, University of Copenhagen, Copenhagen, Denmark, ³Department of Public Health, University of Copenhagen, Copenhagen, Denmark, ⁴National Research Centre for the Working Environment, Copenhagen, Denmark, ⁵Research Unit of Clinical Epidemiology, Institute of Clinical Research, University of Southern Denmark, Odense, Denmark, ⁶Center for Clinical Epidemiology, Odense University Hospital, Odense, Denmark, ⁷Department of Occupational Medicine, Danish Ramazzini Centre, Aarhus University Hospital, Aarhus, Denmark

Pot Pourri, followed by discussion

11:00-12:45 Kilsyth

Chair: Yue-Leon Guo & Marc Schenker

- 0218
11:00-
11:15
Work-related injury mortality among children and adolescents in Brazil, 2000 - 2014
Vilma Santana¹, Tatiane Meira¹, Maria Cláudia Peres¹, Yukari Mise¹, Raquel Pompeu¹, Flávia Ferreira-de-Sousa², Ligia Kiss³, Anne Andermann⁴
¹Federal University of Bahia, Salvador, Ba, Brazil, ²Health Ministry, Brasília, DF, Brazil, ³London University, London, UK, ⁴University of McGill, Montreal, Canada
- 0281
11:15-
11:30
Evaluating the completeness of compulsory work-related diseases/injuries notifications recorded by three cities in Southeast Brazil.
Mariana Tavares Guimarães¹, Ana Paula Sacone da Silva Ferreira¹, Alessandro José Nunes da Silva², Sandra Renata Duracenko², Simone Alves dos Santos³, José Carlos do Carmo³, Rodolfo Andrade de Gouveia Vilela¹, Maria Regina Alves Cardoso¹
¹School of Public Health, University of São Paulo, São Paulo, SP, Brazil, ²CEREST Piracicaba, Piracicaba, SP, Brazil, ³Health Surveillance Center, Sao Paulo State Health Secretariat, São Paulo, SP, Brazil
- 0227
11:30-
11:45
Risk of Heat Related Illness: Differences between male and female farmworkers with respect to hydration practices.
Diane Mitchell, Javier Castro, Tracey Armitage, Marc Schenker
University of California, Davis, Davis, California, USA
- 0109
11:45-
12:00
Health effects of exposure to arsenic: A 39-years cohort study in Manfredonia, Italy.
Emilio A L Gianicolo^{1,2}, Antonella Bruni¹, Cristina Mangia³, Marco Cervino⁴, Maurizio Portaluri⁶, Roberta Pirastu⁹, Pietro Comba¹⁰, Annibale Biggeri^{6,7}, Maria Angela Vigotti^{1,8}, Maria Blettner², on behalf of "Manfredonia environment and health Committee"¹¹
¹Italian National Research Council Institute of Clinical Physiology, Lecce, Italy, ²University of Mainz, Institute for Medical Biostatistics, Epidemiology and Informatics, Mainz, Germany, ³Italian National Research Council Institute of Atmospheric Sciences and Climate, Lecce, Italy, ⁴Institute of Atmospheric Sciences and Climate, Bologna, Italy, ⁵General Hospital Radiotherapy Department, Brindisi, Italy, ⁶Epidemiologia e

Prevenzione Giulio Maccacaro Social Enterprise, Torino, Italy, ⁷University of Florence, Department of Statistics, Computer Science, Applications, Florence, Italy, ⁸University of Pisa, Pisa, Italy, ⁹Sapienza Rome University, Rome, Italy, ¹⁰Istituto Superiore di Sanità Dipartimento Ambiente e Salute, Rome, Italy, ¹¹"Manfredonia environment and health Committee", Manfredonia, Italy

- 0490
12:00-
12:15
A randomised control crossover trial of a theory based intervention to improve sun-safe and healthy behaviours in construction workers: study protocol
Amanda Nioi, Charlotte Wendelboe-Nelson, John Cherrie
School of Engineering and Physical Sciences, Heriot-Watt University, Edinburgh, UK
- 0235
12:15-
12:30
Framework to match exposure and health outcomes to build health management system for construction workers in Korea
Hyunwoo Choj, Dongmug Kang, Jongeun Kim
Pusan National University Yangsan Hospital, Yangsan, Republic of Korea

Lunch

12:45-13:45 Cromdale

Poster session 1

12:45-14:30 Cromdale

- 0019
The association of adolescent spinal pain with work absenteeism in early adulthood – six-year follow-up data from a population-based cohort
Pieter Coenen^{1,2}, Anne Smith¹, Peter Kent¹, Mark Harris³, Darren Beales¹, Peter O'Sullivan¹, Leon Straker¹
¹*School of Physiotherapy and Exercise Science, Curtin University, Perth, Australia,* ²*Department of Public & Occupational Health, Amsterdam Public Health Research Institute, VU University Medical Center, Amsterdam, The Netherlands,* ³*Curtin Business School, Curtin University, Perth, Australia*
- 0027
Musculoskeletal disorder survey of caregivers in disability services centers
Chihwei Lu, E.W. Yeh
Chung Yuan Christian University, Taoyuan City,, Taiwan
- 0038
An epidemiological cross-sectional comparative study of morbidity profile in an automobile manufacturing unit
Rajat Kumar Saha
Hero MotoCorp Ltd, Dharuhera Haryana, India
- 0043
Stress at work is associated with an increased risk of obesity in Canadians
Yue Chen
University of Ottawa, Ottawa, Ontario, Canada
- 0051
Estimating worker exposure to solar UV radiation in South Africa by possible extent and occupational group
Caradee Wright^{1,2}, Cheryl Peters^{3,4}
¹*South African Medical Research Council, Pretoria, Gauteng, South Africa,* ²*University of Pretoria, Pretoria, Gauteng, South Africa,* ³*Carleton University, Ontario, Canada,* ⁴*Simon Fraser University, British Columbia, Canada*
- 0053
Evaluation of the outcome of the applied ergonomics trainings in a cement factory
Ferdi Tanir¹, Rengin Guzel¹, Ramazan Azim Okyay²
¹*Cukurova University Faculty of Medicine, Adana, Turkey,* ²*Sutcu Imam University Faculty of Medicine, K.Maras, Turkey*
- 0057
A novel risk prediction tool for disability pension due to musculoskeletal disorders
Raman Shir¹, Markku Heliövaara², Kirsi Ahola¹, Leena Kaila-Kangas¹, Eija Haukka¹, Johanna Kausto¹, Peppiina Saastamoinen³, Päivi Leino-Arjas¹, Tea Lallukka^{1,3}
¹*Work disability prevention, Finnish Institute of Occupational Health, Helsinki, Finland,* ²*Department of Health, National institute for Health and Welfare, Helsinki, Finland,* ³*Department of Public Health, University of Helsinki, Helsinki, Finland*

- 0062 "Rotating shift work and metabolic syndrome among employees working in tertiary care hospital in Southern India"
Reginald George Alex, Santhosh Kumar, Henry Kirupakaran
Christian Medical College, Vellore, Tamil Nadu, India
- 0075 Determinants of international differences in the prevalence of multisite musculoskeletal pain in working population
Emanuele Rizzello¹, Georgia Ntani², Ira Madan³, David Coggon²
¹Department of Medical and Surgical Sciences (DIMEC), University of Bologna, Bologna, Italy, ²MRC, Lifecourse Epidemiology Unit, University of Southampton, Southampton, UK, ³Guy's and St Thomas' NHS Foundation Trust, London, UK
- 0079 Characteristics of particle size distribution in concrete finishing work
Hyun-Hee Park, Eun-Song Hwang, Jae-Kil Jang
Korea Occupational Safety and Health Agency, Ulsan, Republic of Korea
- 0080 Measurement of physiological workload and musculoskeletal fatigue among nursing attendants in Taiwan
Pi-Min Shih, Shih-Yi Lu, Yen-Hui Lin
Department of Occupational Safety and Health, Chung Shan Medical University, Taichung city, Taiwan
- 0084 Overwork and its impact on workers' health: A cross-country comparison of overwork-related cardiovascular mortalities and its reflection in the Taiwanese situation
Ro-Ting Lin¹, Cheng-Kuan Lin²
¹China Medical University, Taichung, Taiwan, ²Harvard T.H. Chan School of Public Health, Boston, MA, USA
- 0088 Characteristics of non-Hodgkin's lymphoma patients among a cohort of semiconductor-manufacturing workers
Jung-min Sung, Sang-gil Lee, Eun-A Kim
KOSHA, Ulsan, Republic of Korea
- 0097 Risk factors for occupational low back pain (LBP), medicine use, and seeking care for LBP: Results from a prospective cohort study
Arun Garg¹, Jay Kapellusch¹, Kurt Hegmann²
¹UWM, Milwaukee, WI, USA, ²University of Utah, Salt Lake City, UT, USA
- 0100 Childhood in backstage: Repercussions, risks and challenges of artistic child labor
Sandra Cavalcante, Rodolfo Vilela
Public Health Faculty - University of São Paulo, São Paulo/SP, Brazil
- 0103 Farming and mortality from non-Hodgkin's lymphoma in Taiwan
Chun-Yuh Yang¹, Shang-Shyue Tsai²
¹Department of Public Health, Kaohsiung Medical University, Kaohsiung, Taiwan, ²Department of Healthcare Administration, Kaohsiung, Taiwan
- 0119 DNA variants and organophosphate neurotoxicity among emerging farmers in the western Cape of South Africa
Tracy Glass, Mohamed Aqiel Dalvie, Zelda Holtman, Anna Alvera Vorster, Rajkumar Sewcharan Ramesar, Leslie London
University of Cape Town, Cape Town, Western Cape, South Africa
- 0143 A 10-year prospective study of toner handling workers
Ryosuke Sugano, Satoshi Michii, Hajime Ando, Hiroki Nozawa, Kazunori Ikegami, Akira Ogami
Department of Work Systems and Health, Institute of Industrial and Ecological Sciences, University of Occupational and Environmental Health, Kitakyushu, Fukuoka, Japan
- 0147 Interrelationships between key socioeconomic indicators and long sickness absence due to musculoskeletal disorders among young female municipal employees in Helsinki, Finland
Hilla Sumanen, Minna Mänty, Olli Pietiläinen
University of Helsinki, Helsinki, Finland

- 0154 Occupational diseases attended at Parc de Salut Mar (Barcelona): Care costs in a series of confirmed cases (2010-2014).
M Valinho-Carrete¹, FG Benavides^{2,4}, A Beltran-Fonollosa^{1,3}, JM Ramada^{2,4}, F Cots², M Trapero-Bertran⁵, GL Delclos^{4,6}, C Serra^{1,4}
¹CiSAL-Center for Research in Occupational Health, University Pompeu Fabra, Barcelona, Spain, ²IMIM Hospital del Mar Medical Research Institute, Barcelona, Spain, ³Occupational Health Service, Parc de Salut Mar, Barcelona, Spain, ⁴CIBER de Epidemiología y Salud Pública (CIBERESP), Barcelona, Spain, ⁵Facultad de ciencias económicas y sociales. Universitat Internacional de Catalunya, Barcelona, Spain, ⁶The University of Texas School of Public Health, Houston, Texas, USA
- 0156 Lung cancer among meat industry workers: Results of the ICARE Study
Soumaya Ben Khedher¹, Mireille Matrat^{2,3}, Sylvie Cenée¹, Marie Sanchez¹, Danièle Luce^{4,5}, Isabelle Stücker¹
¹Université Paris-Saclay, Univ. Paris-Sud, UVSQ, CESP, INSERM, Villejuif, F-94807, France, ²University Paris Est-Créteil, Faculty of Medicine IFR 10, 94010 Créteil Cedex, France, ³Centre Hospitalier Intercommunal, Service de Pneumologie et de Pathologie Professionnelle, 94010 Créteil Cedex, France, ⁴INSERM, U 1085_IRSET, F-97154 Pointe-à-Pitre, France, ⁵University of Rennes 1, F-35700, Rennes, France
- 0168 Quantification of viable Staphylococcus aureus and viable Bacteria in workplaces by propidium monoazide with qPCR
Ching-Wen Chang, Meng-Hsuan Lin
 National Taiwan University, Taipei, Taiwan
- 0169 The effect of psychological symptom within 1 year after occupational injury on long-term self-perceived health status
Weishan Chin¹, Judith Shu-Chu Shiao², Yue-Liang Leon Guo^{3,4}, Shih-Cheng Liao⁵, Kuan-Han Lin⁶, Chih-Chieh Chen¹
¹Institute of Occupational Medicine and Industrial Hygiene, National Taiwan University School of Public Health, Taipei, Taiwan, ²Department of Nursing, College of Medicine, National Taiwan University (NTU) and NTU Hospital, Taipei, Taiwan, ³National Institute of Environmental Health Science, National Health Research Institutes, Zhunan, Taiwan, ⁴Department of Environmental and Occupational Medicine, National Taiwan University (NTU) and NTU Hospital, Taipei, Taiwan, ⁵Department of Psychiatry, College of Medicine, National Taiwan University (NTU) and NTU Hospital, Taipei, Taiwan, ⁶The Graduate Institute of Medical Education and Bioethics, National Taiwan University College of Medicine, Taipei, Taiwan
- 0177 Occupational risk assessment on Chrysotile production
Serik Ibraev, Alexey Alexeyev, Asset Izdenov
 Karaganda State Medical University, Karaganda, Kazakhstan
- 0178 Vibration exposure of military personnel depending on military vehicle type, position in vehicle and travelling surface
Assar Luha¹, Eda Merisalu¹, Siim Kinna², Rainer Jõgeva³, Hans Orru²
¹Estonian University of Life Sciences, Tartu, Estonia, ²University of Tartu, Tartu, Estonia, ³Estonian Defence Forces, Võru, Estonia
- 0186 Women Epidemiology Lung Cancer (WELCA) study: reproductive, hormonal, occupational risk factors and biobank
Diane Martin¹, Monica Neri¹, Pierre Laurent-Puig², Hélène Blons³, Martine Antoine⁴, Anne Guiochon-Mantel^{5,6}, Sylvie Brailly-Tabard^{5,6}, Marianne Canonico¹, Marie Wislez^{7,8}, Jean Trédaniel⁹, Isabelle Stücker¹
¹Université Paris-Saclay, Univ.Paris-Sud, UVSQ, CESP, Inserm UMRS, 1018, Villejuif, France, ²Université Paris Descartes, Inserm UMR5775 EPIGENETEC, Paris, France, ³INSERM UMR-S1147, Université Paris Sorbonne Cité, Hôpital Européen Georges Pompidou (HEGP) APHP, Paris, France, ⁴Service d'anatomopathologie, APHP TENON, Paris, France, ⁵Service de Génétique moléculaire, Pharmacogénétique et Hormonologie, Hôpital de Bicêtre APHP, Le Kremlin Bicetre, France, ⁶INSERM UMRS1185, Faculté de médecine Paris Sud, Université Paris-Sud, Université Paris-Saclay, Paris, France, ⁷Service de Pneumologie APHP TENON, Paris, France,

⁸Sorbonne Université, UPMC Univ. Paris 06, GRC-04, Théranoscan, Paris, France,
⁹Université Paris Descartes, Unité de cancérologie thoracique, Groupe Hospitalier
Paris Saint Joseph, Paris, France

- 0196 Mortality among Swedish hard metal production workers: Measurement data and exposure assessment
Håkan Westberg¹, Ing-Liss Bryngelsson¹, Gary Marsh², Jeanine Buchanich², Sarah Zimmerman², Kathleen Kennedy³, Nurtan Esmen³, Magnus Svartengren⁴
¹Department of Occupational and Environmental Medicine, Faculty of Science, Örebro, Sweden, ²Center for Occupational Biostatistics and Epidemiology, Department of Biostatistics, Graduate School of Public Health, University of Pittsburgh, Pittsburgh, USA, ³Division of Environmental and Occupational Health Sciences, School of Public Health, University of Illinois at Chicago, Chicago, USA, ⁴Department of Medical Science, Occupational and Environmental Medicine, Uppsala, Sweden
- 0197 Epidemic of bladder cancer: Ten cases in Japanese male workers exposed mainly to ortho-toluidine
Makiko Nakano¹, Kazuyuki Omae¹, Toru Takebayashi¹, Shigeki Koda²
¹Department of Preventive Medicine and Public Health, Keio University School of Medicine, Tokyo, Tokyo, Japan, ²National Institute of Occupational Safety and Health, Kawasaki, Kanagawa, Japan
- 0211 Occupational heat stress and heat strain assessment using climate service information
Chuansi Gao¹, Kalev Kuklane¹, Per-Olof Östergren², Tord Kjellstrom³
¹Thermal Environment Laboratory, Division of Ergonomics and Aerosol Technology, Department of Design Sciences, Faculty of Engineering, Lund University, Lund, Sweden, ²Social Medicine and Global Health, Department of Clinical Sciences in Malmö, Lund University, Lund, Sweden, ³Centre for Technology Research and Innovation (CETRI Ltd), Lemesos, Cyprus
- 0228 Using prediction models to investigate the relation between physical exposures during computer use and symptoms in a large cohort of office workers
Maaïke Huysmans¹, Belinda Eijkelhof¹, Jennifer Bruno Garza², Birgitte Blatter³, Peter Johnson⁴, Jaap van Dieën⁵, Allard van der Beek¹, Jack Dennerlein⁶
¹Department of Public and Occupational Health, Amsterdam Public Health research institute, VU Medical Center, Amsterdam, The Netherlands, ²Division of Occupational and Environmental Medicine, UConn Health, Farmington, USA, ³Netherlands Organisation for Applied Scientific Research TNO, Leiden, The Netherlands, ⁴Department of Environmental and Occupational Health Sciences, University of Washington, Seattle, USA, ⁵MOVE Research Institute Amsterdam, Amsterdam, The Netherlands, ⁶Department of Physical Therapy, Movement, and Rehabilitation Sciences, Bouvé College of Health Sciences, Northeastern University, Boston, USA
- 0233 Physical and mental health of non-professional emergency responder in a healthcare institution
Dwee Wee Lim, Joseph Lim Suan Seng, Lay Tin Lee
Occupational Health Services, Tan Tock Seng Hospital, Singapore, Singapore
- 0249 Job-exposure matrix for historical exposure to rubber dust, rubber fumes, and n-Nitrosamines in the British rubber industry
Mira Hidajat¹, Damien McElvenny², Will Mueller², Peter Ritchie², John Cherrie^{2,3}, Andrew Darnton⁴, Raymond Agius⁵, Frank de Vocht¹
¹University of Bristol, Bristol, UK, ²Institute of Medicine, Edinburgh, UK, ³Heriot Watt University, Edinburgh, UK, ⁴Health and Safety Executive, Bootle, UK, ⁵The University of Manchester, Manchester, UK
- 0258 Prevalence of work-related musculoskeletal diseases and disability in construction workers in Ankara
Necvan Tokmak¹, Selim Yuksef², Zeynep Cavusoglu³, Zerrin Unlu⁴, Cemil Tuna⁵, Mustafa Unaldi⁶, Ahmet Ozlu⁷, Mustafa Kemal Basarali⁸, Friederieke Schaafsma⁹, Frank Van Dijk⁹
¹Public Health Institution of Turkey, Ankara, Turkey, ²Public Health Directorate of Kocaeli, Kocaeli, Turkey, ³Public Health Directorate of Izmir, Izmir, Turkey, ⁴Public Health Institution of Turkey, Ankara, Turkey, ⁵Public Health Institution of Turkey,

- Ankara, Turkey, ⁶Public Health Directorate of Ankara, Ankara, Turkey, ⁷Public Health Institution of Turkey, Ankara, Turkey, ⁸Public Health Institution of Turkey, Ankara, Turkey, ⁹Free University in Amsterdam, Amsterdam, The Netherlands
- 0268 Socio-economic differences in use of occupational, public and private health care in working-age population in Finland
Jenni Blomgren
The Social Insurance Institution of Finland, Helsinki, Finland
- 0288 Development of quantitative estimates of wood dust exposure in a Canadian general population job-exposure matrix based on past expert assessments
Jean-François Sauvé^{1,2}, Hugh W Davies^{3,4}, Marie-Élise Parent⁵, Cheryl E Peters^{3,4}, Jack Siemiatycki^{1,2}, Marie-Pierre Sylvestre^{1,2}, Jérôme Lavoué^{1,2}
¹University of Montreal, School of Public Health, Montreal, Canada, ²CRCHUM, Montreal, Canada, ³University of British Columbia, Vancouver, Canada, ⁴CAREX Canada, Vancouver, Canada, ⁵INRS-Institut Armand-Frappier, Laval, Canada, ⁶Carleton University, Ottawa, Canada
- 0304 Temporo-spatial analysis of mortality from pleural mesothelioma from 1975 to 2012 in Île-de-France
Philippe Bouvet de la Maisonneuve^{1,2}, Florian Pontin¹, Adrien Saunai¹, Maylis Telle-Lamberton¹
¹Observatoire Régional de Santé d'Île-de-France, Paris, France, ²Université Pierre et Marie Curie, Paris, France
- 0309 Real-time fine aerosol exposures in taconite mining operations
Tran Huynh¹, Gurumurthy Ramachandran², Harrison Quick¹, Peter Raynor³, Bruce Alexander³, Jeff Mandel³
¹Drexel University, Philadelphia, PA, USA, ²Johns Hopkins University, Baltimore, MD, USA, ³University of Minnesota, Minneapolis, MN, USA
- 0324 Misclassification of animal handling injuries to swine workers
Jessica Evanson, Deirdre Green, Bruce Alexander, Jeff Bender
University of Minnesota, Minneapolis, MN, USA
- 0357 Multi-site musculoskeletal pain in Swedish police and its association with use of mandatory equipment
Louise Bæk Larsen¹, Elisabeth Elgmark Andersson¹, Roy Tranberg², Nerrolyn Ramstrand¹
¹Department of rehabilitation, School of Health and Welfare, Jönköping University, Jönköping, Sweden, ²Department of Orthopaedics, Institute of Clinical Sciences, University of Gothenburg, Gothenburg, Sweden
- 0358 Rhinitis symptoms and immunological response after occupational exposure to shrimp shell powder
Björg Eli Hollund^{1,2}, Jorunn Kirkeleit^{1,2}, Cecilie Svanes^{1,2}, Morten Langeland¹, Randi Bertelsen^{1,2}
¹Department of Occupational Medicine, Bergen, Norway, ²University of Bergen, Bergen, Norway
- 0385 Occupational exposure to diesel motor exhaust and the risk of cancer of the oral cavity, pharynx and larynx: the Icare study
Aurélie Gérazime¹, Christine Barui¹, Gwenn Menvielle², Isabelle Stücker³, Danièle Luce¹
¹INSERM U1085 - IRSET, Pointe-à-Pitre, France, ²Sorbonne Universités, UPMC Univ Paris 06, INSERM, IPLESP UMRS 1136), Paris, France, ³INSERM U1018 - CESP, Villejuif, France
- 0410 Occupational exposure to pesticides and health effects in male banana plantation workers in Ecuador
Hans-Peter Hutter^{1,2}, Hanns Moshhammer¹, Peter Wallner^{1,3}, Shifra Shahrakisanavi¹, Helmut Ludwig², Michael Kundl¹
¹Department of Environmental Health, Medical University Vienna, Vienna, Austria, ²International Society of Doctors for the Environment - Section Austria, Vienna,

Austria, ³Medicine and Environmental Protection, Vienna, Austria

- 0416 Relationship between extracellular iron and circulating inflammation markers in plasma of Minnesota taconite workers
Shannon M. Sullivan, Bin Ma, Bruce H. Alexander, Jeffrey H. Mandel, Irina Stepanov
University of Minnesota, Minneapolis, Minnesota, USA
- 0419 Anxiety and depressive diagnoses among workers with musculoskeletal injury
Andrea Marie Jones¹, Mieke Koehoorn¹, Ute Bültmann², Christopher McLeod¹
¹University of British Columbia, Vancouver, Canada, ²University of Groningen, Groningen, The Netherlands
- 0421 Injury severity, return to work, and outcomes in collectively-bargained alternative workers' compensation arrangements
Katherine Schofield¹, Kim Dauner¹, Andrew Ryan²
¹University of Minnesota Duluth, Duluth, MN, USA, ²University of Minnesota, Minneapolis, MN, USA
- 0427 Occupational exposures among home-based informal workers in a poor urban area of Brazil
Eduardo Marinho Barbosa^{1,2}, Vilma Sousa Santana², Sílvia Ferrite^{3,2}, Felipe Campos², Gisella Cristina de Oliveira Silva², Milena Maria Cordeiro Almeida^{3,2}
¹Federal Institute of Bahia - IFBA, Health Technology Nucleus - NTS, Salvador, Bahia, Brazil, ²Federal University of Bahia - UFBA, Institute of Collective Health - ISC, Program of Environmental and Workers' Health - PISAT, Salvador, Bahia, Brazil, ³Federal University of Bahia - UFBA, Institute of Health Sciences - ICS, Salvador, Bahia, Brazil
- 0438 Field study potential in India for Occupational Heat Stress - Challenges and Opportunities
Vidhya Venugopal, Jeremiah Chinnadurai, Rekha S, Manikandan K, Krishnan S, Latha K, Kumaravel K
Sri Ramachandra University, Chennai, Tamilnadu, India
- 0444 Bringing evidence of "what works" to practise.
Emma Irvin¹, Stephen Bornstein³, Kim Cullen¹, Amanda Butt³, Dwayne Van Eerd^{1,2}, Leslie Johnson⁴, Ron Saunders¹
¹Institute for Work & Health, Toronto, Ontario, Canada, ²School of Public Health and Health Systems, University of Waterloo, Waterloo, Ontario, Canada, ³SafetyNet Centre for Occupational Health & Safety Research Memorial University, St. John's, Newfoundland & Labrador, Canada, ⁴College of Rehabilitation Sciences, Faculty of Health Sciences, University of Manitoba, Winnipeg, Manitoba, Canada
- 0451 Perceived heat exposure while at work. A questionnaire study in West Java, Indonesia
Ida Karlsson, Vidhya Venugopal, Anna Suraya, Kristina Jakobsson
Institution of Public Health and Community Medicine, Gothenburg, Sweden
- 0460 Smoking adjusted occupational risk of bladder cancer using proxy smoking from lung cancer in Nordic males.
Kishor Hadkhale¹, Jan Ivar Martinsen², Elisabete Weiderpass^{2,5}, Kristina Kjaerheim², Elsebeth Lyngø⁶, Pär Sørensen⁵, Laufey Tryggvadottir^{7,8}, Eero Pukkala^{1,9}
¹University of Tampere, Faculty of Social Sciences, Tampere, Finland, ²Cancer Registry of Norway, Institute of Population-Based Cancer Research, Oslo, Norway, ³University of Tromsø, Faculty of Health Sciences, The Arctic University of Norway, Tromsø, Norway, ⁴Folkhälsan Research Center, Genetic epidemiology group, Helsinki, Finland, ⁵Karolinska Institutet, Department of Medical Epidemiology and Biostatistics, Stockholm, Sweden, ⁶University of Copenhagen, Institute of Public Health, Copenhagen, Denmark, ⁷Icelandic Cancer Registry, Reykjavik, Iceland, ⁸University of Iceland, Faculty of Medicine, Reykjavik, Iceland, ⁹Finnish Cancer Registry, Institute for Statistical and Epidemiological Cancer Research, Helsinki, Finland
- 0462 A Comparison of Distal Upper Limb Physical Exposure Quantification Tools: the Strain Index, ACGIH TLV for HAL, and the Recently Developed Revised Strain Index
Jay Kapellusch, Arun Garg

University of Wisconsin - Milwaukee, Milwaukee, Wisconsin, USA

- 0478 Inhalation and dermal exposure to toluene among printing workers in a plastic bag factory
Wantanee Phanprasit¹, Kanchanok Songpek², Vorakamol Boonyayothin¹, Dusit Sujirarat¹
¹Mahidol University, Bangkok, Thailand, ²Reckitt Benckiser Healthcare Manufacturing (Thailand) Ltd, Bangkok, Thailand
- 0485 Environmental exposure to radiofrequency and risk of lymphoma subtypes
G. Satta¹, P. Cocco¹, A. Salis², L. Saba², S. Sanna¹, E. Angelucci³, A. Gabbas¹, F. Culurgioni³, P. Pili³, E. Mura³, M. Cappa⁴, Maris G. Ennas¹
¹University of Cagliari, Cagliari, Italy, ²EPICOOP, Cagliari, Italy, ³A. Businco Oncology Hospital, Cagliari, Italy, ⁴Regional Agency for Environmental Protection of Sardinia (ARPAS), Cagliari, Italy

Modernet Meeting (open to all delegates)

13:30-14:30 Tinto

Chair: Lode Godderis

Early Career Researchers - Speed Networking

13:30-14:30 Ochil

Ioannis Basinas & Will Mueller

Panel: Debbie Glass, Debbie Lawlor, Yue-Leon Guo, Manolis Kogevinas, Dana Loomis, Noah Seixas

Poster walk 1-1 (Cancer)

13:45-14:30 Cromdale

Chair: Susan Peters

- 0074 Lung cancer risk due to exposure to respirable crystalline silica in the absence of silicosis
Matthias Möhner
Federal Institute for Occupational Safety and Health, Berlin, Germany
- 0140 Breast cancer incidence and metalworking fluid exposure in a cohort of female autoworkers
Erika Garcia¹, Patrick Bradshaw², Sadie Costello¹, Ellen Eisen¹
¹Environmental Health Sciences Division, School of Public Health, University of California, Berkeley, Berkeley, California, USA, ²Epidemiology Division, School of Public Health, University of California at Berkeley, Berkeley, California, USA
- 0173 Radiation-induced peritoneal mesothelioma after external beam radiotherapy for prostate adenocarcinoma: a longitudinal analysis of SEER registries.
Andrea Farioli¹, Francesca Zanardi², Emanuele Rizzello¹, Giovanna Spataro³, Alessio Giuseppe Morganti⁴, Francesco Saverio Violante¹
¹Department of Medical and Surgical Sciences (DIMEC), Bologna University, Bologna, Italy, ²Department of Public Health Sciences and Pediatrics, Turin University, Turin, Italy, ³Department of Biomedical and Dental Sciences and Morphofunctional Imaging, Messina University, Messina, Italy, ⁴Department of Experimental, Diagnostic and Specialty Medicine, University of Bologna, Bologna, Italy
- 0203 Farming and mortality from leukemia in Taiwan
Chih-Ching Chang¹, Shu-Chen Ho², Chun-Yuh Yang²
¹National Cheng Kung University, Tainan, Taiwan, ²Kaohsiung Medical University, Kaohsiung, Taiwan
- 0253 Estimated future incidence of malignant mesothelioma in Korea : projection from 2015 to 2034
Kyeongmin Kwak^{1,2}, Domyung Paek², Seung-sik Hwang², Young-su Ju³
¹Gachon University Gil Medical Center, Incheon, Republic of Korea, ²Seoul National University Graduate School of Public Health, Seoul, Republic of Korea, ³Hallym

University Sacred Heart Hospital, Anyang, Republic of Korea

- 0353 Navigating cancer at sea - an extended follow-up on cancer incidence in a Danish cohort of seafarers.
Kajsa Petersen, Julie Volk, Johnni Hansen
The Danish Cancer Society Research Center, Copenhagen, Denmark
- 0432 Parental exposure to paints and risk of childhood cancer
Julie Volk³, Johnni Hansen³, Julia Heck², Kjeld Schmiegelow¹
¹Department of Pediatrics and Adolescent Medicine, University Hospital Rigshospitalet, Copenhagen, Denmark, ²Department of Epidemiology, UCLA School of Public Health, California, USA, ³Department of Diet, Genes and Environment, Danish Cancer Society Research Center, Copenhagen, Denmark
- 0476 The Brazil-Italy project on asbestos-related diseases in Curitiba
Dario Consonni¹, Luciana Puchalski Kalinke², Marco Aurélio Kalinke³, Fernanda Moura D'Almeida Miranda², Larissa Marcondes², Tatiana Hallfeld², Christiane Brey², Shirley Bolle², Angela Cecilia Pesatori^{4,1}, Carolina Mensi¹, Leila Maria Mansano Sarquis²
¹Department of Preventive Medicine, Fondazione IRCCS Ca' Granda Ospedale Maggiore Policlinico, Milan, Italy, ²Universidade Federal do Paraná, Curitiba, Brazil, ³Universidade Tecnológica Federal do Paraná, Curitiba, Brazil, ⁴Department of Clinical Sciences and Community Health, Università degli Studi di Milano, Milan, Italy

Poster walk 1-2 (Exposure assessment)

13:45-14:30 Cromdale

Chair: Roel Vermeulen

- 0073 Respirable dust and crystalline silica exposure among concrete finishing workers in construction industry
Hyunhee Park, Ensong Hwang
Korea Occupational Safety and Health Agency, Ulsan, Republic of Korea
- 0121 Data analysis for biological monitoring in South Korea's occupational health field
Bo-Hwa Choi, Mi-young Lee, Jungmin Sung
Occupational Safety and Health Research Institute (OSHRI), KOSHA, Ulsan, Republic of Korea
- 0165 A job exposure matrix from self-reported physical exposures: A method to control bias from symptoms
Ann Marie Dale¹, Alexis Descatha², Johann Hviid Andersen³, Skye Buckner-Petty¹, Bradley Evanoff¹
¹Washington University, St. Louis, Missouri, USA, ²Inserm Versailles St-Quentin University, Inserm, France, ³Herning Regional Hospital, Herning, Denmark
- 0240 Monitoring of asbestos fiber dispersion from a factory to surrounding residential environment
Dongmug Kang^{1,3}, Youngki Kim^{1,3}, Jongeun Kim^{1,2}, Hyunwoo Choi¹
¹Dep. Occupational and Environmental Medicine, Pusan National University Yangsan Hospital, Yangsan, Gyeong-Nam, Republic of Korea, ²Environmental Health Center for Asbestos, Pusan National University Yangsan Hospital, Yangsan, Gyeong-Nam, Republic of Korea, ³Preventive, Occupational and Environmental Medicine, Pusan National University, Yangsan, Gyeong-Nam, Republic of Korea
- 0264 PROBE: Hazardous chemical Products Register for Occupational use in Belgium
Lode Godderis^{1,2}, Sara Pauwels¹, Anne-Marie Temmerman^{3,4}, Steven Ronsmans², Antoon De Schryver^{2,5}, Dorina Rusu^{6,7}, Lutgart Braeckman³
¹KU Leuven- University of Leuven, Department of Public Health and Primary Care, Environment and Health, Kapucijnenvoer 35 blok D box 7001, 3000 Leuven, Belgium, ²IDEWE, External Service for Prevention and Protection at Work, Interleuvenlaan 58, 3001 Heverlee, Belgium, ³UGent- Ghent University, Department of Public Health, De Pintelaan 185, 4K3, 9000 Gent, Belgium, ⁴OCMW Brugge- Public Social Welfare Centre Bruges, Ruddershove 4, 8000 Brugge, Belgium, ⁵University of Antwerpen, Epidemiology and Social Medicine, Universiteitsplein 1, 2610 Antwerpen, Belgium, ⁶University of Liège, Department of Public Health, Avenue Hippocrate 13, 4000 Liège,

Belgium, ⁷SPMT-ARISTA, External Service for Prevention and Protection at Work, Rue Royale 196, 1000 Bruxelles, Belgium

- 0303 Evaluating differences in expert agreement between subgroups to identify where to prioritize use of multiple raters
Pamela Dopart¹, Hormuzd Katk², Bu-Tian Ji¹, Patricia Stewart^{1,3}, Melissa Friesen¹
¹Occupational and Environmental Epidemiology Branch, Division of Cancer Epidemiology and Genetics, National Cancer Institute, Bethesda, MD, USA, ²Biostatistics Branch, Division of Cancer Epidemiology and Genetics, National Cancer Institute, Bethesda, MD, USA, ³Formerly of the National Cancer Institute; currently Stewart Exposure Assessments, LLC, Arlington, VA, USA
- 0471 Evaluation of airborne chemical exposures to aluminum workers
Elizabeth M. Noth¹, Sa Liu¹, Daniel M. Brown¹, Andreas M. Neophytou¹, Sadie Costello¹, Ellen A. Eisen¹, Mark R. Cullen², S. Katharine Hammond¹
¹University of California, Berkeley, Berkeley, CA, USA, ²Stanford University, Palo Alto, CA, USA
- 0435 Pigeon breeding and the risk of interstitial lung disease, does number of pigeons matter?
Christine Cramer¹, Vivi Schlünssen^{2,3}, Elisabeth Bendstrup⁴, Zara Ann Stokholm¹, Jesper Medom Vestergaard¹, Morten Frydenberg⁵, Henrik Albert Kolstad¹
¹Department of Occupational Medicine, Danish Ramazzini Centre, Aarhus University Hospital, Aarhus, Denmark, ²Department of Public Health, Danish Ramazzini Centre, Aarhus University, Aarhus, Denmark, ³National Research Centre for the Working Environment, Copenhagen, Denmark, ⁴Department of Respiratory Diseases and Allergy, Aarhus University Hospital, Aarhus, Denmark, ⁵Section for Biostatistics, Department of Public Health, Aarhus University, Aarhus, Denmark

Poster walk 1-3 (Injuries & violence)

13:45-14:30 Cromdale

Chair: James Ross

- 0020 Road traffic collisions risk in professional drivers with diabetes mellitus and receiving treatment- a prospective cohort study
Wei-Te Wu¹, Su-Shan Tsa², Hui-Yi Liao¹, Wei-Jin Li¹, Saou-Hsing Liou¹
¹National Institute of Environmental Health Sciences, National Health Research Institutes, Miaoli, Taiwan, ²Graduate Institute of Life Sciences, National Defense Medical Center, Taipei, Taiwan
- 0044 Injuries in construction sites: A community-based survey in Bangladesh
Mohammed Abul Kalam
Siam Health Care, Dhaka, Bangladesh
- 0167 Association between ambient temperature and occupational injury
Shih-Chun Pan¹, Ching-Chun Huang^{1,2}, Wei-Shan Chin¹, Bing-Yu Chen³, Yue-Liang Leon Guo^{2,3}
¹National Taiwan University, Taipei, Taiwan, ²National Taiwan University (NTU) and NTU Hospital, Taipei, Taiwan, ³National Health Research Institutes, Zhunan, Taiwan
- 0254 Outdoor temperature, air pollutants and occupational injuries risk: a systematic review of epidemiological studies and a case-crossover study.
Michela Bonafede¹, Patrizia Schifano², Alessandro Marinaccio¹, Federica Asta², Simona Vecchi², Marina Davolf², Paola Michelozzi²
¹Inail - Italian Workers Compensation Authority - Department of Occupational and Environmental Medicine, Epidemiology and Hygiene, Rome, Italy, ²Department of Epidemiology, Lazio Regional Health Service, Rome, Italy
- 0280 Factors associated with the severity of work injuries in the formal sector in Piracicaba, São Paulo State, Brazil
Mariana Tavares Guimarães¹, Ana Paula Sacone da Silva Ferreira¹, Alessandro José Nunes da Silva², Sandra Renata Duracenko², Stela Verzinhasse Peres¹, Rodolfo Andrade de Gouveia Vilela¹, Maria Regina Alves Cardoso¹
¹School of Public Health, University of São Paulo, São Paulo, SP, Brazil, ²CEREST

Piracicaba, Piracicaba, SP, Brazil

- 0316 Obstructive sleep apnea syndrome (OSAS) in road traffic accidents of commercial Bus and truck drivers in central Iran
Mehrzad Ebrahemzadih^{1,2}, Gholam Hossein Halvani²
¹*Environmental Health Research Center, Kurdistan University of Medical Sciences, Sanandaj, Iran,* ²*Department of Occupational Health, Shahid Sadoughi University of Medical Sciences, Yazd, Iran*
- 0418 Violence in healthcare: how does it affect return-to-work after work injury?
Kelvin Choi, Esther Maas, Mieke Koehoorn, Chris McLeod
University of British Columbia, Vancouver, British Columbia, Canada
- 0146 Epidemiological surveillance of fatal occupational injuries
Bengt Järvholm, Johanna Björnstig, Ulf Björnstig
Umeå University, Umeå, Sweden

Poster walk 1-4 (Musculoskeletal)

13:45-14:30 Cromdale

Chair: David Coggon

- 0069 Knee disorders, work limitations and work status. First results from the CONSTANCES Cohort
Alexis Descatha¹, Paul Kuijer², Ann-Marie Dale³, Audrey Petit⁴, Monique Frings-Dresen², Bradley A. Evanoff³, Annette Leclerc¹, Yves Roquelaure⁴
¹*Inserm UVSQ AP-HP, Villejuif, France,* ²*Academic Medical Center, Coronel Institute of Occupational Health, Amsterdam, The Netherlands,* ³*Washington University in St Louis, St-Louis, MO, USA,* ⁴*CHU Angers Inserm, Angers, France*
- 0078 The risk for low back pain caused by driving professions in a young adult population
Shlomo Moshe^{1,2}, Regina Levin^{2,3}, Aharon S Finestone^{2,4}, Ayala Krakov^{1,2}, Oren Zack^{2,3}
¹*Maccabi Healthcare Services, Holon, Israel,* ²*Tel Aviv University, School of Public Health, Department of Environmental and Occupational Medicine., Tel Aviv, Israel,* ³*The Israel Defense Forces, Medical Corps, Ramat Gan, Israel,* ⁴*Assaf Harofeh Medical Center, Zerifin, Israel*
- 0112 Work environment & health in Denmark – risk factors related to physical work demands for long-term sickness absence
Lars L. Andersen
National Research Centre for the Working Environment, Copenhagen, Denmark
- 0129 Musculoskeletal pain and workstation assessments among office workers in a Public University in Costa Rica
Adriana Campos-Fumero
Costa Rica Institute of Technology, Cartago, Costa Rica
- 0149 Pain at other anatomical sites is a major predictor of subsequent sickness absence for low back pain
David Coggon, Georgia Ntani
University of Southampton, Southampton, UK
- 0192 Individual, occupational and clinical predictors of early return-to-work after Carpal Tunnel Syndrome surgery in a cohort of Spanish workers.
Sergio Vargas-Prada^{1,2}, Eulalia Boren¹, Natalia Martin¹, Sara Planas¹, David Coggon³
¹*Unidad Central de Contingencias Comunes (U3C), Mutua ASEPEYO, Barcelona, Spain,* ²*Center for Research in Occupational Health (CiSAL), Universitat Pompeu Fabra, Barcelona, Spain,* ³*University of Southampton, Southampton, UK*
- 0251 A twenty-two year longitudinal study of workers exposed to hand-held vibrating tools
Rita Bast-Pettersen, Karl-Christian Nordby, Inger Helene Gudding, Elin Einarsdottir Thornér, Lisa Aarhus
National Institute of Occupational Health, Oslo, Norway
- 0307 Determinants of modified work as part of the return-to-work process for injured workers with musculoskeletal injuries in British Columbia, Canada

*Mieke Koehoorn, Christopher B McLeod, Lillian Tamburic, Esther Maas
University of British Columbia, Vancouver, British Columbia, Canada*

Climate Change Mini-symposium, including panel discussion

14:30-16:15 Pentland

Chair: Tord Kjellstrom & David Wegman

Panel discussants on "ideas for epidemiological studies and cooperation": Rebecca Lucas, Jonathan Patz, Kristina Jakobsson, Miriam Levi, Neal Pearce, Chuansi Gao, Vidhya Venugopal, Jason Glaser

- 0412 Climate change impacts on occupational health via workplace heat
Tord Kjellstrom¹, David Wegman², Lars Nybo³, Andreas Fluoris⁴, Lucka Kajfez-Bogataj⁵
¹Center for Technology Research & Innovation Ltd, Limassol, Cyprus, ²University of Massachusetts, Lowell, MA, USA, ³University of Copenhagen, Copenhagen, Denmark, ⁴University of Thessaly, Trikala, Greece, ⁵University of Ljubljana, Ljubljana, Slovenia
- 0242 Measuring and estimating physiological responses to occupational heat exposure
Rebekah Lucas¹, Kristina Jakobsson², Tord Kjellstrom³, David Wegman⁴
¹School of Sport, Exercise & Rehabilitation Sciences, University of Birmingham,, Birmingham, UK, ²Section of Occupational and Environmental Medicine, Department of Molecular and Clinical Medicine, Institute of Medicine, Sahlgrenska Academy, University of Gothenburg, Gothenburg, Sweden, ³Centre for Technology Research and Innovation, Limassol, Cyprus, ⁴Department of Work Environment, University of Massachusetts, Lowell, USA
- 0318 Occupational epidemiology research in the new "low-carbon" economy.
Jonathan Patz
University of Wisconsin, Madison, WI, USA
- 0158 Work in heat: A challenge for the kidneys
Kristina Jakobsson^{1,2}, Rebekah Lucas⁶, Vidhya Venugopal³, Jennifer Crowe⁴, Camilla Dahlqvist¹, Jenny Apelqvist², Ilana Weiss⁵, Jason Glaser⁵
¹Gothenburg University, Gothenburg, Sweden, ²Lund University, Lund, Sweden, ³Sri Ramachandra University, Chennai, India, ⁴National University of Costa Rica, Heredia, Costa Rica, ⁵Laisla Network, Chicago, USA, ⁶University of Birmingham, Birmingham, UK
- 0241 Results of a systematic review on the effects of climate change on the health and productivity of workers
Miriam Levi, Alberto Baldasseroni
CeRIMP - Regional Centre for Occupational Diseases and Injuries, Local Health Unit Tuscany Centre, Florence, Italy

CAREX Mini-symposium, including discussion

14:30-16:15 Sidlaw

Chair: Kurt Straif

- 0284 CAREX: An occupational exposure surveillance system overview
Cheryl Peters^{1,2}, Manisha Pahwa³, Paul Demers³
¹Carleton University, Ottawa, Canada, ²CAREX Canada, Vancouver, Canada, ³Occupational Cancer Research Centre, Toronto, Canada
- 0050 Working towards assessing occupational carcinogenic exposures in an African lower and middle income country
Caradee Wright^{1,3}, Johan du Plessis², Renee Street¹, Patricia Forbes³, Hanna-Andrea Rother⁴, Thandi Kapwata¹, Manisha Pahwa⁵, Paul Demers⁵, Cheryl Peters^{6,7}
¹South African Medical Research Council, Pretoria, Gauteng, South Africa, ²North-West University, Potchefstroom, North-West, South Africa, ³University of Pretoria, Pretoria, Gauteng, South Africa, ⁴University of Cape Town, Cape Town, Western Cape, South Africa, ⁵Cancer Care Ontario, Toronto, Ontario, Canada, ⁶Carleton University, Ottawa, Ontario, Canada, ⁷CAREX Canada, Simon Fraser University, British Columbia, Canada

- 0135 Development of CAREX systems in Latin America and the Caribbean
Manisha Pahwa¹, Julietta Rodriguez-Guzmán², Cheryl Peters^{3,4}, Paul Demers^{1,4}
¹Occupational Cancer Research Centre, Cancer Care Ontario, Toronto, Ontario, Canada, ²Pan American Health Organization/World Health Organization, Washington, D.C., USA, ³Department of Health Sciences, Carleton University, Ottawa, Ontario, Canada, ⁴CAREX Canada, Simon Fraser University, Burnaby, British Columbia, Canada
- 0452 Uses of CAREX systems for individual countries and international contexts
Paul A Demers^{1,2}, Cheryl Peters^{3,4}, Manisha Pahwa¹, Jill MacLeod¹, Joanne Kim^{5,1}
¹Occupational Cancer Research Centre, Toronto, Ontario, Canada, ²University of Toronto, Toronto, Ontario, Canada, ³Carleton University, Ottawa, Ontario, Canada, ⁴CAREX Canada, Simon Fraser University, Vancouver, BC, Canada, ⁵McGill University, Montreal, Quebec, Canada

Methodology, followed by discussion

14:30-16:15 **Fintry**

Chair: David Richardson & Anthony Seaton

- 0134 What to expect from your expected
 14:30- *David Richardson*
 14:45 *University of North Carolina, Chapel Hill, NC, USA*
- 0190 Occupational exposure to crystalline silica and death from lung cancer: g-estimation of structural accelerated failure time models
 14:45- *Sally Picciotto¹, Daniel M. Brown¹, Andreas M. Neophytou¹, Lisa E. Gallagher³, Ellen E. Eisen¹, Harvey Checkoway², Sadie Costello¹*
 15:00 ¹UC Berkeley, Berkeley, California, USA, ²UC San Diego, La Jolla, California, USA, ³Boston University, Boston, Massachusetts, USA
- 0137 Exposure-lag-response in occupational epidemiology: application of distributed non-linear lag models in a cohort of diatomaceous earth workers exposed to crystalline silica.
 15:00- *Andreas Neophytou¹, Sally Picciotto¹, Daniel Brown¹, Ellen Eisen¹, Harvey Checkoway², Sadie Costello¹*
 15:15 ¹Division of Environmental Health Sciences, School of Public Health, University of California, Berkeley, Berkeley, CA, USA, ²Department of Family & Preventive Medicine, University of California, San Diego, San Diego, CA, USA
- 0368 Improving incidence rates of work-related ill-health calculated from general practice
 15:15- *Louise Hussey, Matthew Gittins, Roseanne McNamee, Raymond Agius*
 15:30 *The University of Manchester, Manchester, UK*
- 0459 Productivity estimation in economic evaluations of occupational health and safety interventions: a systematic review
 15:30- *Jonas Steel¹, Lode Godderis², Jeroen Luyten^{1,3}*
 15:45 ¹Leuven Institute for Healthcare Policy, KULeuven, Leuven, Belgium, ²Environment and Health, KULeuven, Leuven, Belgium, ³Department of Social Policy, London School of Economics & Political Science, Leuven, Belgium
- 0163 Comparison of risk estimates from Cox proportional hazards and Poisson modeling for association of occupational titanium dioxide exposure and selected causes of death
 15:45- *Ashley Golden¹, Elizabeth Ellis¹, Hien Le²*
 16:00 ¹Oak Ridge Associated Universities, Oak Ridge, Tennessee, USA, ²The Chemours Company, Wilmington, Delaware, USA

Shift Work & Disease 2, followed by discussion

14:30-16:15 **Moorfoot**

Chair: Marie-Elise Parent & Amy Hall

- 0207 Hypertensive disorders of pregnancy among night workers in Danish hospitals: a national register-based cohort study
 14:30- *Paula E C Hammer¹, Esben M Flachs¹, Ina O Specht², Anja B Pinborg³, Sesilje B*
 14:45

Petersen¹, Ann D Larsen⁴, Karin S Hougaard⁴, Johnni Hansen⁵, Åse M Hansen^{4,6}, Henrik A Kolstad⁷, Anne H Garde^{4,6}, Jens P Bonde^{1,6}

¹Bispebjerg University Hospital - Department of Occupational and Environmental Medicine, Copenhagen, Denmark, ²Parker Institute, Bispebjerg and Frederiksberg University Hospital, Copenhagen, Denmark, ³Hvidovre University Hospital - Department of Obstetrics and Gynecology, Copenhagen, Denmark, ⁴National Research Centre for the Working Environment, Copenhagen, Denmark, ⁵The Danish Cancer Society - Research Unit of Diet, Genes and Environment, Copenhagen, Denmark, ⁶University of Copenhagen - Department of Public Health, Copenhagen, Denmark, ⁷Aarhus University Hospital - Department of Occupational Medicine, Danish Ramazzini Centre, Aarhus, Denmark

0415 Working Around the Clock: An Exposure Response Relationship between Night Work
14:45- and Incident Hypertension

15:00 Jacqueline Ferguson¹, Sadie Costello¹, Mark Cullen², Ellen Eisen¹

¹University of California, Berkeley, Berkeley, California, USA, ²Stanford University, Stanford, California, USA

0391 Are women doing shift work in paper mills at increased risk for myocardial infarction?

15:00- Eva Andersson¹, Helena Eriksson¹, Marianne Andersson¹, Ing-Liss Bryngelsson², Kjell
15:15 Torén¹, Richard Neitzel³

¹Occupational and Environmental Medicine, Sahlgrenska University Hospital, Göteborg, Sweden, ²Occupational and Environmental Medicine, Örebro University Hospital, Örebro, Sweden, ³Environmental Health Sciences, University of Michigan, Ann Arbor, Michigan, USA

0108 Shift work and sleep-related problems: A nationwide survey in Taiwan

15:15- Wei An Lin^{1,2}, Wei Shan Chin^{2,3}, Chih Yong Chen⁴, Li Wen Liu⁴, Yi Tsong Pan⁴, Po
15:30 Ching Chu^{1,2}, Yue Leon Guo^{1,3}

¹Department of Environmental and Occupational Medicine, National Taiwan University (NTU) College of Medicine and NTU Hospital, Taipei, Taiwan, ²Institute of Occupational Medicine and Industrial Hygiene, NTU School of Public Health, Taipei, Taiwan, ³National Institute of Environmental Health Sciences, National Health Research Institutes, Zhunan, Taiwan, ⁴Institute of Labor, Occupational Safety and Health, Ministry of Labor, New Taipei City, Taiwan

0247 Shift work and incidence of cardiovascular diseases in the Danish Nurse Cohort

15:30- Jeanette Thorming Jørgensen¹, Rikke Horn¹, Leslie Stayner^{2,3}, Johnni Hansen⁴,
15:45 Zorana Jovanovic Andersen¹

¹University of Copenhagen, Copenhagen, Denmark, ²University of Illinois at Chicago School of Public Health, Chicago, IL, USA, ³University of Southern Denmark, Odense, Denmark, ⁴Danish Cancer Society, Copenhagen, Denmark

0136 Breast cancer risk associated with night shift work: What are the meta-analyses telling us?

15:45- Manisha Pahwa¹, France Labrèche^{2,3}, Paul Demers^{1,4}

16:00 ¹Occupational Cancer Research Centre, Cancer Care Ontario, Toronto, Ontario, Canada, ²Institut de recherche Robert-Sauvé en santé et en sécurité du travail, Montréal, Québec, Canada, ³School of Public Health, Université de Montréal, Montréal, Québec, Canada, ⁴Dalla Lana School of Public Health, University of Toronto, Toronto, Ontario, Canada

Cardiovascular Disease, followed by discussion

14:30-16:15 Tinto

Chair: Jenni Ervasti & Laura Bogaert

0122 Permanent work disability before and after ischemic heart disease or stroke event: A
14:30- nationwide population-based cohort study in Sweden

14:45 Jenni Ervasti¹, Marianna Virtanen¹, Tea Lallukka^{1,2}, Emilie Friberg³, Linnea Kjeldgård³,
Ellenor Mittendorfer-Rutz³, Erik Lundström³, Kristina Alexanderson³

¹Finnish Institute of Occupational Health, Helsinki, Finland, ²University of Helsinki, Helsinki, Finland, ³Karolinska Institutet, Stockholm, Sweden

- 0271
14:45-
15:00 Adverse effects on specific markers of cardiovascular risk among workers exposed to multi-walled carbon nanotubes.
Eelco Kuijpers^{1,2}, Anjoeka Pronk², Robert Kleemann³, Jelle Vlaanderen¹, Nathaniel Rothman⁴, Debra Silverman⁴, Qing Lan⁴, Peter Hoet⁵, Lode Godderis^{5,6}, Roel Vermeulen¹
¹Division of Environmental Epidemiology, Institute for Risk Assessment Sciences, Utrecht, The Netherlands, ²TNO RAPID, Zeist, The Netherlands, ³TNO MHR, Leiden, The Netherlands, ⁴Occupational and Environmental Epidemiology Branch, Division of Cancer Epidemiology and Genetics, National Cancer Institute, Bethesda MD, USA, ⁵Katholieke Universiteit Leuven – Centre for Environment and Health, Leuven, Belgium, ⁶IDEWE, External Service for Prevention and Protection at Work, Heverlee, Belgium
- 0386
15:00-
15:15 Occupational noise exposure and ambulatory blood pressure: the exposure response relation with acute and lagged exposure
Zara Ann Stokholm¹, Kent Lodberg Christensen², Thomas W. Frederiksen¹, Jesper M. Vestergaard¹, Åse Marie Hansen^{3,5}, Jens Peter Bonde⁴, Jesper Kristiansen⁵, Søren Peter Lund⁶, Henrik A. Kolstad¹
¹Department of Occupational Medicine, Danish Ramazzini Centre, Aarhus University Hospital, Aarhus, Denmark, ²Department of Internal Medicine and Cardiology A, Aarhus University Hospital, Aarhus, Denmark, ³Faculty of Health, University of Copenhagen, Copenhagen, Denmark, ⁴Department of Occupational and Environmental Medicine, Bispebjerg Hospital, Copenhagen, Denmark, ⁵National Research Centre for the Working Environment, Copenhagen, Denmark
- 0272
15:15-
15:30 Finding a space for health within the context of ‘occupational risk’ and farm policy: Ireland’s ‘Farmers Have Hearts’ workplace cardiovascular screening programme.
Diana van Doorn¹, Noel Richardson¹, Aoife Osborne²
¹Institute of Technology Carlow, Carlow, Ireland, ²University College Dublin, Dublin, Ireland
- 0237
15:30-
15:45 The relationship between heart rate variability and 5-year risk of cardiovascular disease: evidence from the Taiwan Bus Driver Cohort Study
Ying-Chuan Wang¹, Wei-Te Wu², Chung-Ching Wang¹, Sheng-Ta Chiang¹, Saou-Hsing Liou^{1,3}
¹Division of Family Medicine, Department of Family and Community Medicine, Tri-Service General Hospital, National Defense Medical Center,, Taipei, Taiwan, ²National Institute of Environmental Health Sciences, National Health Research Institutes,, Miaoli, Taiwan, ³Department of Public Health, National Defense Medical Center,, Taipei, Taiwan
- 0159
15:45-
16:00 Relation between work-related silica exposure in foundries and cardiovascular diseases
Chenjing Fan, Ing-Liss Bryngelsson, Pål Graff, Per Vihlborg, Lena Andersson
Department of Occupational and Environmental Medicine, Örebro University Hospital, Örebro, Sweden

Respiratory Disease, followed by discussion

14:30-16:15 Kilsyth

Chair: Kate Venables & Rebecca DeVries

- 0024
14:30-
14:45 The occupations at increased risk of COPD in the UK Biobank Cohort
Sara De Matteis¹, Deborah Jarvis¹, Andrew Darnton², David Fishwick², Lesley Rushton¹, Paul Cullinan¹
¹Imperial College London, London, UK, ²Health and Safety Executive, Bootle, UK
- 0133
14:45-
15:00 Environmental and occupational triggers of COPD symptoms: A case crossover study
Susan Sama^{1,2}, Rebecca DeVries¹, David Kriebel¹, Rebecca Gore¹, Richard Rosiello²
¹University of Massachusetts Lowell, Lowell, MA, USA, ²Reliant Medical Group, Worcester, MA, USA
- 0413
15:00- Short-term and sub-chronic effects of traffic-related black carbon on small airway obstruction in Metro Manila traffic enforcers

- 15:15 Emmanuel S. Baja^{1,2}, Godofreda V. Dalmacion^{1,3}, Antonio D. Ligsay⁶, Nover Edward P. Duarte⁴, Melvin A. Pasay⁵
¹Institute of Clinical Epidemiology, National Institutes of Health, University of the Philippines-Manila, Manila, The Philippines, ²Department of Clinical Epidemiology, College of Medicine, University of the Philippines-Manila, Manila, The Philippines, ³Department of Pharmacology and Toxicology, College of Medicine, University of the Philippines-Manila, Manila, The Philippines, ⁴Microbiology Section, Department of Laboratories, University of the Philippines-Philippine General Hospital, Manila, The Philippines, ⁵St. Luke's Medical Center, Quezon City, The Philippines, ⁶Clinical Research Section, St. Luke's College of Medicine, Quezon City, The Philippines
- 0199 Occupational and environmental risk factors for chronic fibrosing idiopathic interstitial pneumonia in South Korea
 15:15-15:30 Se Yeong Kim¹, Dong Mug Kang²
¹Korea worker's health center, Pusan National University School of Medicine., Busan, Republic of Korea, ²Occupational and Environmental Medicine, Pusan National University Yangsan Hospital, Busan, Republic of Korea
- 0130 Incidence of work-related respiratory ill health attributed to cleaning agents: occupational and chemical determinants.
 15:30-15:45 Melanie Carder, Martin Seed, Raymond Agius
 Centre of Occupational and Environmental Health, University of Manchester, Manchester, UK
- 0369 Tobacco in prisons study (tips)- exposure of prison staff in Scotland to second-hand smoke
 15:45-16:00 Sean Semple¹, Evangelia Demou², Helen Sweeting², Greig Logan², Rachel O'Donnell¹, Kate Hunt², on behalf of the TIPS research team²
¹Institute of Applied Health Sciences, University of Aberdeen, Aberdeen, UK, ²MRC/CSO Social and Public Health Sciences Unit, University of Glasgow, Glasgow, UK

Coffee

16:15-16:45 **Cromdale**

SYNERGY Mini-Symposium, including discussion

16:45-18:15 **Pentland**

Chair: Hans Kromhout & Kurt Straif

- 0090 The SYNERGY project
Kurt Straif¹, Ann Olsson^{1,2}, on behalf of the SYNERGY study group¹
¹International Agency for Research on Cancer, Lyon, France, ²Karolinska Institutet, Stockholm, Sweden
- 0219 The SYNERGY exposure assessment strategy
Susan Peters^{1,2}, Roel Vermeulen¹, Lutzen Portengen¹, Hans Kromhout¹, on behalf of The SYNERGY Study Group¹
¹Utrecht University, Utrecht, The Netherlands, ²University Medical Centre Utrecht, Utrecht, The Netherlands
- 0475 Occupational exposure to respirable crystalline silica and lung cancer risk in the SYNERGY project
Roel Vermeulen¹, Ann Olsson², Susan Peters¹, Lutzen Portengen¹, Hans Kromhout¹, Kurt Straif²
¹Utrecht University, Utrecht, The Netherlands, ²IARC, Lyon, France
- 0482 Exposure to Hexavalent Chromium and Nickel and Lung Cancer Risk: a Pooled Analysis of Case-Control Studies from Europe and Canada
Thomas Behrens¹, Beate Pesch¹, Roel Vermeulen², Ann Olsson³, Joachim Schüz³, Lützen Portengen², Benjamin Kendzia¹, Hans Kromhout², Kurt Straif³, Thomas Brüning¹, on behalf of The SYNERGY Study Group¹
¹Institute for Prevention and Occupational Medicine of the German Social Accident Insurance (IPA), Institute of the Ruhr-Universität, Bochum, Germany, ²Institute for Risk

Assessment Sciences, Utrecht University, Utrecht, The Netherlands, ³International Agency for Research on Cancer (IARC), Lyon, France

0372 Occupational exposure to PAH and lung cancer risk in the SYNERGY project
Neela Guha¹, Ann Olsson¹, Roel Vermeulen², Hans Kromhout², Lützen Portengen²,
Kurt Straif¹, on behalf of The SYNERGY Study Group¹
¹IARC, Lyon, France, ²Utrecht University, Utrecht, The Netherlands

0454 Multiplicative two-way interactions between occupational lung carcinogens in the SYNERGY Project
Jelle Vlaanderen¹, Ann Olsson², Hans Kromhout¹, Lützen Portengen¹, Kurt Straif²,
Roel Vermeulen¹, On behalf of the SYNERGY study group³
¹Utrecht University, Utrecht, The Netherlands, ²International Agency for Research on Cancer, Lyon, France

Risk Assessment, followed by discussion

16:45-18:15 Sidlaw

Chair: David Richardson & Tord Kjellstrom

0138 Pooled uranium miners analysis: Goals and challenges
16:45- David Richardson¹, Michaela Kreuzer², Nora Fenske², Christina Sobotzki², Minh Do³,
17:00 Paul Demers³, Dominique Laurier⁴, Estelle Rage⁴, Mary Schubauer-Berigan⁵, Ladislav Tomasek⁶,
Jon Samet⁷, Lydia Zablotska⁸
¹University of North Carolina, Chapel Hill, NC, USA, ²Federal Office for Radiation Protection, Neuherberg, Germany, ³Cancer Care Ontario, Toronto, Canada, ⁴Institute for Radiation Protection and Nuclear Safety, Fontenay-aux-Roses, France, ⁵National Institute for Occupational Safety and Health, Cincinnati, OH, USA, ⁶Radiation Protection Institute, Prague, Czech Republic, ⁷University of Southern California, Los Angeles, CA, USA, ⁸University of California, San Francisco, San Francisco, CA, USA

0425 An occupational epidemiology model for climate change impact assessment
17:00- Tord Kjellstrom^{1,2}, Matthias Otto³, Bruno Lemke³, Chris Freyberg⁴, David Briggs⁵,
17:15 Lauren Lines⁶
¹Centre for Technology Research and Innovation, Limassol, Cyprus, ²Australian National University, Canberra, Australia, ³Nelson-Marlborough Institute of Technology, Nelson, New Zealand, ⁴Massey University, Palmerston North, New Zealand, ⁵Imperial College, London, UK, ⁶Canterbury University, Christchurch, New Zealand

0046 Mortality study of a cohort of chemical workers producing perfluorinated derivatives and other chemicals.
17:15- Paolo Girardi^{1,2}, Enzo Merler³
17:30 ¹Venetian Mesothelioma Registry, Occupational Health Unit, Padua, Italy, ²SER Epidemiological Department, Veneto Region, Venice, Italy, ³Promotion and Development of Hygiene and Public Health, Veneto Region, Venice, Italy

0263 Determinants of occupational diseases in The Netherlands: Risks at the individual and the population level
17:30- Romy Steenbeek, Liza van Dam, Ernest de Vroome
17:45 The Netherlands Organization for Applied Scientific Research (TNO), Leiden, The Netherlands

0065 Sleep quality among health sciences students living in dormitory
17:45- Alireza Dehdashti, Mahshid Bahrami, Meysam Karami
18:00 Semnan University of Medical Sciences, Semnan, Iran

Ageing Workforce, followed by discussion

16:45-18:15 Fintry

Chair: David Kriebel & Joanne Crawford

0047 Poor health, lifestyle, work-related factors and premature loss of employment in older
16:45- workers - results from the Health and Employment After Fifty (HEAF) study
17:00 Stefania D'Angelo, Holly Syddall, Georgia Ntani, E Clare Harris, Cathy Linaker, Martin

Stevens, Karen Walker-Bone, Keith T Palmer
MRC Lifecourse Epidemiology Unit, University of Southampton, Southampton, UK,
Southampton, UK

- 0032
17:00-
17:15
Physical capacity in midlife and labor market attachment among older workers: prospective cohort study with register follow-up
Emil Sundstrup¹, Åse Marie Hansen^{1,2}, Erik Lykke Mortensen^{2,4}, Otto Poulsen¹, Thomas Clausen¹, Reiner Rugulies^{1,2}, Anne Møller³, Lars Andersen¹
¹National Research Centre for the Working Environment, Copenhagen, Denmark, ²Department of Public Health, University of Copenhagen, Copenhagen, Denmark, ³Department of Psychology, University of Copenhagen, Copenhagen, Denmark, ⁴Center for Healthy Aging, University of Copenhagen, Copenhagen, Denmark
- 0267
17:15-
17:30
Socioeconomic inequalities in unemployment as a predictor of disability retirement: a retrospective case-control study
Mikko Laaksonen¹, Jenni Blomgren²
¹The Finnish Centre for Pensions, Helsinki, Finland, ²The Social Insurance Institution of Finland, Helsinki, Finland
- 0089
17:30-
17:45
Predicting working beyond retirement in the Netherlands: an interdisciplinary approach involving occupational epidemiology and economics
Cécile Boot¹, Micky Scham¹, Astrid de Wind¹, Goedele Geuskens³, Martijn Huisman^{1,2}, Maarten Lindeboom¹, Allard Van der Beek¹
¹VU University Medical Center, Amsterdam Public Health research institute, Amsterdam, The Netherlands, ²VU University, Amsterdam, The Netherlands, ³TNO, Leiden, The Netherlands
- 0336
17:45-
18:00
Impact of job group on risk of retirement in Denmark 1980-2012
Esben Meulengracht Flachs Flachs¹, Johnni Hansen², Esben Budtz Jørgensen³, Henrik Albert Kolstad⁴, Sesilje Elise Bondo Petersen¹, Vivi Schlünssen⁵, Susanne Wulff Svendsen⁶, Jens Peter Ellekilde Bonde¹
¹Department of Occupational and Environmental Medicine, Bispebjerg University Hospital, Copenhagen, Denmark, ²The Danish Cancer Society, Copenhagen, Denmark, ³Department of Biostatistics, Copenhagen University, Copenhagen, Denmark, ⁴Department of Occupational Medicine, Aarhus University Hospital, Aarhus, Denmark, ⁵The Danish National Research Centre for the Working Environment, Copenhagen, Denmark, ⁶Department of Occupational Medicine, Herning Hospital, Herning, Denmark

Burden of Disease, followed by discussion

16:45-18:15 Moorfoot

Chair: Lesley Rushton & Sandra Cavalcante

- 0379
16:45-
17:00
Calculating the current burden of occupational cancers in Canadian women
France Labrèche^{1,2}, Chaojie Song³, Manisha Pahwa³, Cheryl E Peters^{4,5}, Victoria H Arrandale^{3,6}, Chris B McLeod^{7,10}, Hugh W Davies^{7,5}, Jérôme Lavoué^{2,8}, Joanne Kim^{3,9}, Paul A Demers^{3,6}
¹Institut de recherche Robert-Sauvé en santé et en sécurité du travail, Montreal, QC, Canada, ²School of Public Health, Université de Montréal, Montreal, QC, Canada, ³Occupational Cancer Research Centre, Cancer Care Ontario, Toronto, ON, Canada, ⁴Department of Health Sciences, Carleton University, Ottawa, ON, Canada, ⁵CAREX Canada, Simon Fraser University, Vancouver, BC, Canada, ⁶Dalla Lana School of Public Health, University of Toronto, Toronto, ON, Canada, ⁷School of Population and Public Health, University of British Columbia, Vancouver, BC, Canada, ⁸Centre de recherche du Centre hospitalier de l'Université de Montréal, Montreal, QC, Canada, ⁹Department of Epidemiology and Biostatistics, McGill University, Montreal, QC, Canada, ¹⁰Institute for Work & Health, Toronto, ON, Canada
- 0059
17:00-
17:15
A global perspective on coal-fired power plants and lung cancer mortality
ChengKuan Lin, David Christiani, Ro-Ting Lin
Department of Environmental Health, Harvard Chan School of Public Health, Boston, USA

- 0470 Comparison of occupational cancer burden estimates
17:15-17:30 Joanne Kim^{1,2}, France Labrèche^{3,4}, Cheryl E Peters^{5,6}, Hugh Davies^{6,7}, Chris McLeod⁷, Jérôme Lavoué^{4,8}, Victoria H Arrandale^{2,9}, Manisha Pahwa², Paul A Demers^{2,9}
¹Department of Epidemiology and Biostatistics, McGill University, Montréal, Canada, ²Occupational Cancer Research Centre, Toronto, Canada, ³Institut de recherche Robert-Sauvé en santé et en sécurité du travail, Montréal, Canada, ⁴School of Public Health, Université de Montréal, Montréal, Canada, ⁵Department of Health Sciences, Carleton University, Ottawa, Canada, ⁶CAREX Canada, Simon Fraser University, Vancouver, Canada, ⁷School of Population and Public Health, University of British Columbia, Vancouver, Canada, ⁸Centre de recherche du Centre hospitalier de l'Université de Montréal, Montréal, Canada, ⁹Dalla Lana School of Public Health, University of Toronto, Toronto, Canada
- 0282 Quantifying the impact of shift work on breast cancer: results from the burden of occupational cancer in Canada study
17:30-17:45 Manisha Pahwa¹, France Labrèche^{2,3}, Joanne Kim^{1,4}, Anne Harris^{1,5}, Chaojie Song¹, Paul Demers^{1,6}
¹Occupational Cancer Research Centre, Cancer Care Ontario, Toronto, Ontario, Canada, ²Institut de recherche Robert-Sauvé en santé et en Sécurité du travail, Montréal, Québec, Canada, ³School of Public Health, Université de Montréal, Montréal, Québec, Canada, ⁴Department of Epidemiology, Biostatistics and Occupational Health, McGill University, Montréal, Québec, Canada, ⁵School of Occupational and Public Health, Ryerson University, Toronto, Ontario, Canada, ⁶Dalla Lana School of Public Health, University of Toronto, Toronto, Ontario, Canada
- 0366 Comparing alternative methods of estimating future disease burden due to occupation
17:45-18:00 Sally Hutchings¹, Lesley Rushton¹, Martie van Tongeren², Damien McElvenny³
¹Imperial College London, Department of Epidemiology and Biostatistics, London, UK, ²University of Manchester, Manchester, UK, ³Institute of Occupational Medicine, Edinburgh, UK

Chemicals, followed by discussion

16:45-18:15 Tinto

Chair: Kristina Jakobsson & Raymond Agius

- 0232 Occupational formaldehyde exposure and risk of cancer at selected sites - A case-control analysis nested in a formaldehyde exposed cohort in Finland and Sweden
16:45-17:00 Kristina Kjaerheim¹, Jan Ivar Martinsen¹, Eero Pukkala^{2,3}, Madar Talibov³, Elisabete Weiderpass^{1,4}, Tom K. Grimsrud¹
¹Cancer Registry of Norway, Oslo, Norway, ²Finnish Cancer Registry, Helsinki, Finland, ³School of Health Sciences, University of Tampere, Tampere, Finland, ⁴Karolinska Institute, Stockholm, Sweden
- 0328 Extended mortality follow-up of a cohort of workers exposed to acrylonitrile
17:00-17:15 Stella Koutros¹, Aaron Blair¹, Barry Graubard¹, Jay Lubin¹, Patricia Stewart², Laura E. Beane Freeman¹, Debra T Silverman¹
¹US National Cancer Institute, Bethesda, MD, USA, ²Stewart Exposure Assessments, LLC, Arlington, VA, USA
- 0176 Sinonasal cancer following occupational styrene exposure: a new signal of human carcinogenesis?
17:15-17:30 Mette Schou Nissen^{1,2}, Zara Ann Stokholm¹, Mette Skovgaard Christensen¹, Vivi Schlünssen^{3,4}, Jesper Medom Vestergaard¹, Inge Brosbøl Iversen¹, Henrik Albert Kolstad¹
¹Department of Occupational Medicine, Danish Ramazzini Centre, Aarhus University Hospital, Aarhus, Denmark, ²Centre for Integrated Register-based Research, CIRRAU, Aarhus University, Aarhus, Denmark, ³Department of Public Health, Danish Ramazzini Centre, Aarhus University, Aarhus, Denmark, ⁴National Research Centre for the Working Environment, Copenhagen, Denmark
- 0152 Cancer mortality of DMF exposed workers in Korea
17:30- Yeon-Soon Ahn¹, Jin-Ha Yoon¹

- 17:45 ¹Dongguk University Ilsan Hospital, Goyang, Republic of Korea, ²Yeonsei College of Medicine, Seoul, Republic of Korea
- 0290 Investigating the reproducibility of metabolomics profiles of Washington State metal
17:45- workers
18:00 Marissa Baker, Christopher Simpson, Yvonne Lin, Noah Seixas
University of Washington, Seattle, WA, USA

Prostate Cancer, followed by discussion

16:45-18:15 Kilysyth

Chair: Marie-Elise Parent & Will Mueller

- 0339 Occupation and risk of prostate cancer in a national population-based cohort study: the
16:45- Canadian Census Health and Environment Cohort
17:00 Jeavana Sritharan^{1,2}, Jill MacLeod¹, Shelley Harris^{1,3}, Donald Cole³, Anne Harris^{1,4},
Michael Tjepkema⁵, Paul Peters⁶, Paul Demers^{1,3}
¹Occupational Cancer Research Centre, Cancer Care Ontario, Toronto, Ontario,
Canada, ²Institute of Medical Science, University of Toronto, Toronto, Ontario,
Canada, ³Dalla Lana School of Public Health, University of Toronto, Toronto, Ontario,
Canada, ⁴School of Occupational and Public Health, Ryerson University, Toronto,
Ontario, Canada, ⁵Health Analysis Division, Statistics Canada, Ottawa, Ontario,
Canada, ⁶Department of Sociology and Economics, University of New Brunswick,
Fredericton, New Brunswick, Canada
- 0400 Occupational and Environmental Risk Factors for Prostate Cancer in Hong Kong
17:00- Lap Ah Tse¹, Priscilla Ming Yi Lee¹, Wing Ming Ho², Augustine Tsan Lam¹, Man Kei
17:15 Lee Lee⁷, Simon Siu Man Ng³, Yonghua He³, Ka-sing Leung⁴, Jennifer C. Hartle⁵,
Feng Wang¹, Chi Fai Ng⁶
¹Division of Occupational and Environmental Health, JC School of Public Health and
Primary Care, The Chinese University of Hong Kong, Shatin, Hong Kong, ²Department
of Clinical Oncology, Prince of Wales Hospital, Hong Kong SAR, China ³Family
Medicine Training Centre, Prince of Wales Hospital, Shtin, Hong Kong, ⁴Department of
Surgery, Prince of Wales Hospital, Hong Kong SAR, China ⁵Guilin Medical College,
Shatin, Hong Kong, ⁶Department of Applied Biology and Chemical Technology, Hong
Kong Polytechnic University, Kowlong, Hong Kong, ⁷Department of Health Science
and Recreation, San Jose State University, USA, ⁸SH Ho Urology Centre, Department
of Surgery, The Chinese University of Hong Kong, Shtin, Hong Kong, ⁷Family
Medicine Training Centre, Prince of Wales Hospital, Shatin, Hong Kong, ⁸Guilin
Medical College, Guilin, China
- 0322 Cancer incidence in firefighters in Sweden - preliminary findings from an updated
17:15- cohort study
17:30 Cecilia Kullberg¹, Tomas Andersson¹, Per Gustavsson¹, Jenny Selander¹, Göran
Tornling², Annika Gustavsson¹, Carolina Bigert¹
¹Institute of Environmental Medicine, Karolinska Institutet, Stockholm, Sweden,
²Respiratory Medicine Unit, Department of Medicine Solna and CMM, Karolinska
Institutet and Karolinska University Hospital Solna, Stockholm, Sweden
- 0323 Occupational exposure to benzene, toluene, xylene and styrene, and risk of prostate
17:30- cancer
17:45 Audrey Blanc-Lapierre, Mounia Senhaji Rhazi, Hugues Richard, Marie-Élise Parent
INRS - Institut Armand-Frappier, Laval, Quebec, Canada
- 0364 Risk of prostate cancer in firefighters: A meta-analysis
17:45- Jeavana Sritharan^{1,2}, Manisha Pahwa¹, Paul Demers^{1,3}, Shelley Harris^{1,3}, Donald
18:00 Cole³, Marie-Elise Parent⁴
¹Occupational Cancer Research Centre, Cancer Care Ontario, Toronto, Ontario,
Canada, ²Institute of Medical Science, University of Toronto, Toronto, Ontario,
Canada, ³Dalla Lana School of Public Health, University of Toronto, Toronto, Ontario,
Canada, ⁴INRS-Institut Armand Frappier, University of Quebec, Laval, Quebec,
Canada

Whisky & Gin Tasting (Pre-paid tickets required - see EPICOH website)
18:15-19:30 Ochil

Early Career Researchers - Social - Drinks
21:00-22:00 The Devil's Advocate pub (on
Advocate's Close)

Wednesday 30th August 2017

Conference Registration

07:30-18:00 Strathblane Hall

Early Career Researchers - Breakfast Talk - Successful Bid Writing

07:45-08:45 Moorfoot

Anthony Newman Taylor & David Coggon

Early Career Researchers - Breakfast Talk - Career paths for epidemiology in Occupational Health

07:45-08:45 Tinto

Laura Beane Freeman, Mei Yong, Tim Driscoll, Karen Walker-Bone, Alex Tharmaraj, David Alvarez Rincon

Plenary 3

08:45-10:15 Pentland

Chair: Neil Pearce & Javier Vila

0503 INVITED KEYNOTE: Occupational cancer the 21st century

08:45- Manolis Kogevinas

09:30 *IS Global, Barcelona, Spain*

0060 INVITED KEYNOTE: Benzene, lymphohematopoietic cancer and the petroleum industry

09:30- Deborah Glass

10:15 *Monash University, Melbourne, Vic, Australia*

Coffee

10:15-10:45 Cromdale

SCOM/Modernet 1

10:45-12:30 Pentland

Chair: Tim Driscoll & Lode Godderis

Welcome to SCOM/Modernet

0500 INVITED KEYNOTE: Who would have thought it? The unforeseen problems of disruptive technologies.

10:45- Anthony Seaton^{1,2}

11:30 ¹University of Aberdeen, Aberdeen, UK, ²Institute of Occupational Medicine, Edinburgh, UK

0171 Sedentary work and risk of venous thromboembolism

11:30- Camilla Ditlev Lindhardt Johannesen¹, Esben Meulengracht Flachs¹, Niels E Ebbelhøj¹,

11:45 Jacob Louis Marott², Gorm Boje Jensen², Børge G Nordestgaard^{3,4}, Peter Schnohr², Jens Peter E Bonde^{1,4}

¹Department of Occupational and Environmental Medicine, Bispebjerg Hospital, Copenhagen, Denmark, ²Copenhagen City Heart Study, Frederiksberg Hospital, Copenhagen, Denmark, ³Department of Clinical Biochemistry and the Copenhagen General Population Study, Herlev and Gentofte Hospital, Copenhagen, Denmark, ⁴Faculty of Health and Medical Sciences, University of Copenhagen, Copenhagen, Denmark

0429 Daytime workplace noise exposures lower than occupational criteria can disturb nighttime sleep

11:45- Leon Guo^{1,2}, Cheng-Yu Lin^{3,4}, Perng-Jy Tsai^{1,5}, Kuei-Yi Lin⁶, Chih-Yong Chen⁶, Lin-Hui

12:00

Chung⁶, Jiunn-Liang Wu³

¹National Institute of Environmental Health Sciences, National Health Research Institutes, Zhunan, Taiwan, ²Environmental and Occupational Medicine, National Taiwan University (NTU) and NTU Hospital, Taipei, Taiwan, ³Otolaryngology, National Cheng Kung University (NCKU) College of Medicine and NCKU Hospital, Tainan, Taiwan, ⁴Otolaryngology, Ministry of Health and Welfare Tainan Hospital, Tainan, Taiwan, ⁵Environmental and Occupational Health, National Cheng Kung University College of Medicine, Tainan, Taiwan, ⁶Institute of Labor, Occupational Safety and Health, Ministry of Labor, Executive Yuan, New Taipei City, Taiwan

0142 Longer term physical health and wellbeing in Australian Gulf War veterans, 20 years
12:00- after deployment

12:15 Helen Kelsall, Jillian Ikin, Stella Gwini, Andrew Forbes, Malcolm Sim
School of Public Health and Preventive Medicine, Monash University, Melbourne,
Victoria, Australia

0124 Mortality patterns by occupation in Belgium: A census-linked mortality study (1991-
12:15- 2011)

12:30 Laura Van den Borre^{1,2}, Patrick Deboosere¹
¹Vrije Universiteit Brussel (VUB), Interface Demography, Brussels, Belgium,
²Research Foundation Flanders (FWO), Brussels, Belgium

Hardmetal Workers Mini-symposium, including discussion

10:45-12:30 Sidlaw

Chair: Per Gustavsson & Pascal Wild

0302 Mortality among hardmetal production workers: A retrospective cohort study in the
Austrian hard metal industry

Peter Wallner¹, Michael Kundi¹, Hanns Moshhammer¹, Hans-Peter Hutter¹, Sarah
Zimmerman², Jeanine Buchanich², Gary Marsh²

¹Medical University of Vienna, Institute of Environmental Health, Vienna, Austria,

²Center for Occupational Biostatistics and Epidemiology, Department of Biostatistics,
Graduate School of Public Health, University of Pittsburgh, Pittsburgh, Pennsylvania,
USA

0299 Mortality among hardmetal production workers: German historical cohort study

Mei Yong¹, Peter Morfeld^{1,2}, Juliane Valerie Grob², Thomas C. Erren², Kathleen
Kennedy³, Nurtan Esmen³, Sarah Zimmerman⁴, Jeanine Buchanich⁴, Gary Marsh⁴

¹Institute for Occupational Epidemiology and Risk Assessment of Evonik Industries
AG, Essen, Germany, ²Institute and Policlinic for Occupational Medicine,

Environmental Medicine and Prevention Research of Cologne University Hospital,
Cologne, Germany, ³Division of Environmental and Occupational Health Sciences,

School of Public Health, University of Illinois at Chicago, Chicago, Illinois, USA,

⁴Center for Occupational Biostatistics and Epidemiology, Department of Biostatistics,
Graduate School of Public Health, University of Pittsburgh, Pittsburgh, Pennsylvania,
USA

0298 Mortality among hardmetal production workers: The Swedish cohort

Hakan Westberg¹, Ing-Liss Bryngelsson¹, Gary Marsh², Jeanine Buchanich², Sarah
Zimmerman², Kathleen Kennedy³, Nurtan Esmen³, Magnus Svartengren⁴

¹Department of Occupational and Environmental Medicine, Orebro University, Orebro,
Sweden, ²Center for Occupational Biostatistics and Epidemiology, Department of

Biostatistics, Graduate School of Public Health, University of Pittsburgh, Pittsburgh,
Pennsylvania, USA, ³Division of Environmental and Occupational Health Sciences,

School of Public Health, University of Illinois at Chicago, Chicago, Illinois, USA,

⁴Department of Medical Science, Occupational and Environmental Medicine, Uppsala
University, Uppsala, Sweden

0301 Mortality among hardmetal production workers: Occupational exposures

Kathleen Kennedy¹, Nurtan Esmen¹, Jeanine Buchanich², Sarah Zimmerman², Anne
Sleeuwenhoek³, Gary Marsh², John Cherrie³

¹Division of Environmental and Occupational Health Sciences, School of Public
Health, University of Illinois at Chicago, Chicago, Illinois, USA, ²Center for

Occupational Biostatistics and Epidemiology, Department of Biostatistics, Graduate School of Public Health, University of Pittsburgh, Pittsburgh, Pennsylvania, USA, ³Institute of Occupational Medicine, Edinburgh, UK

- 0094 Mortality among hardmetal production workers: UK cohort and nested case-control studies
Damien McElvenny¹, Laura MacCalman¹, Anne Sleeuwenhoek¹, Alice Davis¹, Brian Miller¹, Carla Alexander¹, Hilary Cowie¹, John W. Cherrie¹, Kathleen Kennedy², Nurt Esmer², Sarah Zimmerman³, Jeanine Buchanich³, Gary Marsh³
¹Institute of Occupational Medicine, Edinburgh, UK, ²University of Illinois, Chicago, USA, ³University of Pittsburgh, Pittsburgh, USA
- 0291 Mortality among hardmetal production workers: US cohort and nested case-control studies
Gary Marsh¹, Jeanine Buchanich¹, Sarah Zimmerman¹, Yimeng Liu¹, Lauren Balmer¹, Nurtan Esmer², Kathleen Kennedy²
¹Center for Occupational Biostatistics and Epidemiology Department of Biostatistics Graduate School of Public Health University of Pittsburgh, Pittsburgh, PA 15261, USA, ²Division of Environmental and Occupational Health Sciences School of Public Health University of Illinois at Chicago, Chicago, IL 60612 U.S.A., USA
- 0300 Mortality among hardmetal production workers: Pooled analysis of cohort data from an international investigation
Gary Marsh¹, Jeanine Buchanich¹, Sarah Zimmerman¹, Yimeng Liu¹, Lauren Balmer¹, Kathleen Kennedy², Nurtan Esmer², Hanns Moshhammer³, Peter Morfeld⁴, Thomas Erren⁴, Valerie Grob⁴, Mei Yong⁴, Magnus Svartengren⁵, Hakan Westberg⁶, Damien McElvenny⁷, John Cherrie⁷
¹University of Pittsburgh, Center for Occupational Biostatistics & Epidemiology, Pittsburgh, Pennsylvania, USA, ²University of Illinois at Chicago, Division of Environmental & Occupational Health Sciences, Chicago, Illinois, USA, ³Medical University of Vienna, Institute of Environmental Health, Vienna, Austria, ⁴University of Cologne, Institute for Occupational Medicine, Cologne, Germany, ⁵Uppsala University, Department of Medical Sciences, Uppsala, Sweden, ⁶Örebro University, Department of Occupational & Environmental Medicine, Örebro, Sweden, ⁷Institute of Occupational Medicine, Edinburgh, UK

Retinal Detachment Mini-symposium, including discussion

10:45-12:30 Fintry

Chair: David Kriebel

- 0204 Retinal detachment and occupational lifting: The evidence to date
Stefano Mattioli
Department of Medical and Surgical Sciences, University of Bologna, Bologna, Italy
- 0160 Retinal detachment and heavy lifting: findings from a register study in Denmark
Stefania Curti¹, David Coggon², Harald Hannerz³, Stefano Mattioli¹
¹Department of Medical and Surgical Sciences, University of Bologna, Bologna, Italy, ²MRC Lifecourse Epidemiology Unit, University of Southampton, Southampton, UK, ³National Research Centre for the Working Environment, Copenhagen, Denmark
- 0326 A Swedish job exposure matrix for physical workload
Katarina Kjellberg^{1,2}, Gun Johansson^{1,2}, Magnus Alderling², Tomas Hemmingsson^{1,3}
¹Institute of Environmental Medicine, Karolinska Institutet, Stockholm, Sweden, ²Centre for Occupational and Environmental Medicine, Stockholm County Council, Stockholm, Sweden, ³Centre for Social Research on Alcohol and Drugs, Stockholm University, Stockholm, Sweden
- 0172 Association between Occupational Lifting and Rhegmatogenous Retinal Detachment in a National Cohort of Swedish Men.
Andrea Farioli¹, David Kriebel², Stefano Mattioli¹, Katarina Kjellberg^{3,4}, Tomas Hemmingsson^{3,5}
¹Department of Medical and Surgical Sciences (DIMEC), Bologna, Italy, ²Department of Public Health, University of Massachusetts Lowell, Lowell, USA, ³Institute of Environmental Medicine, Karolinska Institutet, Stockholm, Sweden, ⁴Centre for

Occupational and Environmental Medicine, Stockholm County Council, Stockholm, Sweden, ⁵Centre for Social Research on Alcohol and Drugs, Stockholm University, Stockholm, Sweden

- 0327 Exposure assessment for U.S. case-control study on occupational lifting and retinal detachment: a comparison of methods.
Rebecca DeVries¹, Bradley Daines², Lauren Gosnell¹, Rebecca Gore¹, Susan Sama¹, David Kriebel¹
¹Department of Public Health, University of Massachusetts Lowell, Lowell, MA, USA, ²Reliant Medical Group, Worcester, MA, USA
- 0127 If heavy lifting causes retinal detachment, what is the mechanism? Implications of pathophysiology for epidemiology.
David Kriebel¹, Stefania Curti², Rebecca DeVries¹, Andrea Fariol², Stefano Mattioli², Susan Sama¹
¹University of Massachusetts Lowell, Lowell MA, USA, ²Department of Medical and Surgical Sciences, University of Bologna, Bologna, Italy

Exposure Assessment 2, followed by discussion

10:45-12:30 **Moorfoot**

Chair: Hans Kromhout & Marissa Baker

- 0294 Job-exposure matrix addressing smoking in the nationwide Danish Occupational Cohort, DOC*X
10:45-11:00
Sesilje Bondo Petersen¹, Esben M. Flachs¹, Ebbe Villadsen², Eva Prescott³, Anne Tjønneland⁴, Merete Osler⁵, Ingelise Andersen⁶, Knud Juel⁷, Esben Budtz-Jørgensen⁸, Henrik A. Kolstad⁹, Vivi Schlünssen², Jens Peter Bonde¹
¹Department of Occupational and Environmental Medicine, Bispebjerg University Hospital, Copenhagen, Denmark, ²National Research Centre for Working Environment, Copenhagen, Denmark, ³Department of Cardiology, Bispebjerg University Hospital, Copenhagen, Denmark, ⁴Danish Cancer Society Research Center, Copenhagen, Denmark, ⁵Research Centre for Prevention and Health, Glostrup, Denmark, ⁶Section of Social Medicine, Institute of Public Health, University of Copenhagen, Copenhagen, Denmark, ⁷National Institute of Public Health, University of Southern Denmark, Copenhagen, Denmark, ⁸Section of Biostatistics, University of Copenhagen, Copenhagen, Denmark, ⁹Department of Occupational Medicine, Aarhus University Hospital, Aarhus, Denmark
- 0337 Modelling of occupational exposure to inhalable nickel
11:00-11:15
Benjamin Kendzia¹, Beate Pesch¹, Dorothea Koppisch², Rainer Van Gelder², Katrin Pitzke², Wolfgang Zschiesche¹, Tobias Weiss¹, Thomas Behrens¹, Thomas Brüning⁰
¹Institute for Prevention and Occupational Medicine of the German Social Accident Insurance, Institute of the Ruhr-Universität Bochum (IPA), Bochum, Germany, ²Institute for Occupational Safety and Health of the German Social Accident Insurance (IFA), Sankt Augustin, Germany
- 0216 Occupational radiation doses in nuclear medicine: a US multi-center study
11:15-11:30
Daphnee Villoing¹, R. Craig Yoder², Christopher Passmore³, Marie-Odile Bernier⁴, Martha Linet¹, Cari M. Kitahara¹
¹Radiation Epidemiology Branch, Division of Cancer Epidemiology and Genetics, National Cancer Institute, National Institutes of Health, Rockville, MD, United States Minor Outlying Islands, ²Consultant, Weddington, NC, United States Minor Outlying Islands, ³Landauer, Inc., Glenwood, IL, United States Minor Outlying Islands, ⁴Institut de Radioprotection et de Sureté Nucléaire, Fontenay-aux-roses, France
- 0388 Poultry worker tasks associated with campylobacteriosis in Minnesota, 2012-2016
11:30-11:45
Evan J. Sorley¹, Carrie A. Klumb², Joni M. Scheftel², Bruce H. Alexander¹, Jeff B. Bender¹, Kirk E. Smith²
¹Division of Environmental Health Sciences, University of Minnesota, Minneapolis, MN, USA, ²Minnesota Department of Health, St. Paul, MN, USA
- 0408 Workers' exposure to brominated flame retardants: A glance at American and Canadian population databases
11:45-12:00
Sabrina Gravel^{1,2}, Jérôme Lavoué^{1,3}, France Labrèche^{1,2}

¹School of Public Health, Université de Montréal, Montreal, Qc, Canada, ²Institut de recherche Robert-Sauvé en santé et en sécurité du travail, Montreal, Qc, Canada, ³Centre de recherche du Centre hospitalier de l'Université de Montréal, Montreal, Qc, Canada

0289 "David's Cheese Bread" method: Workload quantitative exposure thresholds detection
12:00- using adjusted hazard multivariate parametric modelling, useful in Cumulative-Trauma
12:15 Disorders prevention and within their causal assessment.

David Alvarez Rincón^{2,3}, Luisa Perez⁴

¹ICOH membership, Milano, Italy, ²EPICOH member, Utrecht, The Netherlands, ³Provincial Workers' Compensation Board, Cali, Colombia, ⁴University of Alberta OH&S postgraduate certificate, Edmonton, Canada

Policy/Impact, followed by discussion

10:45-12:30 Tinto

Chair: Sotiris Vardoulakis & Susan Peters

0209 CKDu: Intervention to Policy

10:45- Jason Glaser^{1,2}, Kristina Jakobsson^{3,4}, Ineke Wesseling⁵, David Wegman⁶, Becky Lucas⁸,
11:00 Theo Bodin⁵, Ulf Ekstrom⁴, Ilana Weiss¹

¹La Isla Network, International, USA, ²LSHTM, London, UK, ³Gothenburg University, Gothenburg, Sweden, ⁴Lund University, Lund, Sweden, ⁵Karolinska Institutet, Stockholm, Sweden, ⁶UMASS Lowell, Lowell, USA, ⁷Harvard University, Boston, USA, ⁸University of Birmingham, Birmingham, UK

0325 Future directions for occupational epidemiological research on neurodegenerative
11:00- disorders

11:15 Susan Peters^{1,2}, Leonard van den berg², Jan Veldink², Roel Vermeulen¹

¹Utrecht University, Utrecht, The Netherlands, ²University Medical Center Utrecht, Utrecht, The Netherlands

0126 Occupational burden estimation: is it having any impact?

11:15- Lesley Rushton

11:30 Imperial College London, London, UK

0164 Early reporting incentives to reduce time between injury and claim: A multiple baseline
11:30- interrupted time series analysis of two Australian workers' compensation jurisdictions

11:45 Tyler Lane¹, Shannon Gray¹, Behrooz Hassani-Mahmooe², Alex Collie¹

¹School of Public Health and Preventive Medicine, Monash University, Melbourne, VIC, Australia, ²Monash University, Melbourne, VIC, Australia

0187 Disability and workplace harassment and discrimination among Canadian federal
11:45- public service employees

12:00 Andrea Marie Jones¹, Rodrigo Finkelstein², Mieke Koehoorn¹

¹University of British Columbia, Vancouver, British Columbia, Canada, ²Simon Fraser University, Vancouver, British Columbia, Canada

Radiation, followed by discussion

10:45-12:30 Kilsyth

Chair: Lydia Zablotska & Jianjun Xiang

0363 Occupational exposure to high frequency electromagnetic fields and risk of brain
10:45- tumours in the INTEROCC Study

11:00 Javier Vila^{1,3}, Michelle C Turner^{1,4}, Esther Gracia-Lavedan^{1,2}, Jordi Figuerola^{1,2},
Joseph D Bowman⁵, Laurel Kincl⁶, Lesley Richardson⁷, Geza Benke⁸, Sarah Fleming⁹,
Martine Hours¹⁰, Daniel Krewski⁴, Dave McLean¹¹, Marie-Elise Parent¹², Siegal Sadetzki^{13,14},
Klaus Schlaefer¹⁵, Brigitte Schlehofer¹⁵, Joachim Schüz¹⁶, Jack Siemiatycki⁷, Martie van Tongeren^{17,18}, Elisabeth Cardis^{1,3}

¹Barcelona Institute for Global Health (ISGlobal), Barcelona, Spain, ²Universitat Pompeu Fabra (UPF), Barcelona, Spain, ³CIBER Epidemiología y Salud Pública (CIBERESP), Madrid, Spain, ⁴McLaughlin Centre for Population Health Risk Assessment, University of Ottawa, Ottawa, Canada, ⁵National Institute for Occupational Safety and Health (NIOSH), Ohio, USA, ⁶Oregon State University

(OSU), Corvallis, Oregon, USA, ⁷University of Montreal Hospital Research Centre (CRCHUM), Montreal, Canada, ⁸School of Public Health and Preventive Medicine, Monash University, Melbourne, Australia, ⁹Faculty of Medicine and Health, University of Leeds, Leeds, UK, ¹⁰Université de Lyon, Institut national de Veille Sanitaire, Unité Mixte de Recherche Épidémiologique et de Surveillance Transports Travail Environnement, Lyon, France, ¹¹Massey University, Wellington, New Zealand, ¹²INRS-Institut Armand-Frappier, Université du Québec, Laval, Canada, ¹³Cancer and Radiation Epidemiology Unit, Gertner Institute, Chaim Sheba Medical Center, Tel-Hashomer, Israel, ¹⁴Sackler Faculty of Medicine, Tel Aviv University, Tel Aviv, Israel, ¹⁵German Cancer Research Center, Heidelberg, Germany, ¹⁶International Agency for Research on Cancer (IARC), Section of Environment and Radiation, Lyon, France, ¹⁷Institute of Occupational Medicine (IOM), Edinburgh, UK, ¹⁸Centre for Occupational and Environmental Health, Centre for Epidemiology, University of Manchester, Manchester, UK, ¹⁹INTEROCC Study Group, Barcelona, Spain

- 0347
11:00-
11:15
Analysis of mortality in a pooled cohort of Canadian and German uranium processing workers with no mining experience
Lydia Zablotska¹, Nora Fenske², Maria Schnelzer², Sergey Zhivin³, Dominique Laurier⁴, Michaela Kreuzer²
¹University of California, San Francisco, San Francisco, CA, USA, ²Federal Office for Radiation Protection, Department of Radiation Protection and Health, Neuherberg, Germany, ³French National Institute of Health and Medical Research, INSERM, Paris, France, ⁴Institute for Radiological Protection and Nuclear Safety, IRSN, Fontenay-aux-Roses, France
- 0239
11:15-
11:30
Radon exposure and lung cancer mortality in the German uranium miner cohort - results from the extended follow-up to 2013 in the WISMUT study
Christina Sobotzki, Nora Fenske, Maria Schnelzer, Michaela Kreuzer
Federal Office for Radiation Protection, Neuherberg, Germany
- 0484
11:30-
11:45
Exposure to ionizing radiation and risk of lymphoma subtypes: analysis of the Epilymph results
Pierluigi Cocco¹, Matteo Io², Qi Zhi¹, G Satta¹, Maris G. Enna¹, Nickolaus Becker³, Yolanda Benavente⁴, Sylvia De Sanjosé⁴, Lenka Foretova⁵, Anthony Staines⁶, Marc Maynadié⁷, Alexander Nieters⁸, Lydia Zablotska²
¹University of Cagliari, Cagliari, Italy, ²University of California, San Francisco, USA, ³German Cancer Research Centre, Heidelberg, Germany, ⁴Catalan Institute of Oncology, Barcelona, Spain, ⁵Department of Cancer Epidemiology and Genetics, Brno, Czech Republic, ⁶Dublin City University, Dublin, Ireland, ⁷Dijon University Hospital, Dijon, France, ⁸University of Freiburg, Freiburg, Germany
- 0123
11:45-
12:00
Reconstruction of individual radiation doses in a cohort of French nuclear workers: Considering doses under the recording threshold
Lucie Fournier, Dominique Laurier, Sylvaine Caër-Lorho, Eric Samson, Klervi Leuraud
Institute for Radiological Protection and Nuclear Safety, Fontenay aux Roses, France
- 0200
12:00-
12:15
Creation of a quantitative historical Job-Exposure Matrix for plutonium workers and feasibility of its use with reconstructed occupational histories for epidemiological purposes
Tony Riddell³, Hanhua Liu², Richard Wakeford², Jacqueline A. O'Hagan³, Raymond Agius², David MacGregor⁴, Christine Wilson⁴, Mark Peace⁴, David Herdman⁴, Frank de Vocht¹
¹University of Bristol, Bristol, UK, ²University of Manchester, Manchester, UK, ³Public Health England, Chilton, UK, ⁴Sellafield Ltd, Seascale, UK

Lunch

12:30-13:30 Cromdale

Poster session 2

12:30-14:15 Cromdale

- 0007 Assessment of pesticide exposure and occupational safety and health of farmers in the Philippines
Jinky Leilanie Lu
National Institutes of Health, Institute of Health Policy and Development Studies, University of the Philippines Manila, Manila, The Philippines
- 0015 The significance and application of salivary biomarkers of stress, cortisol awakening response, in occupational psychology
Wei-Te Wu, Wei-Jin Li, Hui-Yi Liao, Saou-Hsing Liou
National Health Research Institutes, Miaoli county, Taiwan
- 0022 Assessing self-reported health effects by forklift operators
Hülya Gül¹, Savas Kanbur²
¹Istanbul Medical Faculty, Public Health Department, Istanbul, Turkey, ²Gedik University, Istanbul, Turkey
- 0034 Acute occupational pesticide poisoning in Morocco: a 6-year retrospective study
Zineb Nabih¹, Maria Windy², Naima Rhalem², Soumaia Hmimou¹, Abdelmajid Soulaymani¹, Abdelrhani Mokhtari¹, Rachida Soulaymani-Bencheikh^{2,3}, Hinde Hami¹
¹Laboratory of Genetics and Biometry, Faculty of Science, Ibn Tofail University, Kenitra, Morocco, ²Moroccan Poison Control Center, Rabat, Morocco, ³Faculty of Medicine and Pharmacy, Mohammed V University, Rabat, Morocco
- 0039 A study on KAP (Knowledge, Attitude, Practice) of diabetes mellitus in an occupational health background
Rajat Kumar Saha
Hero MotoCorp Ltd, Dharuhera Haryana, India
- 0052 Odour as a determinant of persistent physical and psychological health complaints after an oil tank explosion, a longitudinal study
Gro Tjalvin^{1,2}, Nils Magerøy², Magne Bråtveit¹, Stein Håkon Låstad Lygre², Bjørg Eli Hollund², Bente Elisabeth Moen³
¹Department of Global Public Health and Primary Care, Faculty of Medicine and Dentistry, University of Bergen, Bergen, Norway, ²Department of Occupational Medicine, Haukeland University Hospital, Bergen, Norway, ³Centre for International Health, Faculty of Medicine and Dentistry, Bergen, Norway
- 0067 Perception of musculoskeletal disorders and RULA method application in different productive sectors: a systematic review of literature
Aanh Eduardo Dimate García, Diana Carolina Rodríguez Romero
Fundación Universitaria Del Área Andina, Bogotá, Colombia
- 0107 European survey of national hepatitis B vaccination policies for healthcare workers
Antoon De Schryver^{1,2}, Tom Lambaerts², Nathalie Lammertyn²
¹University of Antwerpen, Epidemiology and Social Medicine, Antwerpen, Belgium, ²IDEWE, Leuven, Belgium
- 0113 Stable prevalence of workplace bullying among Norwegian doctors: A study based on national samples in 1993, 2004 and 2014
Judith Rosta, Olaf Aasland
Institute for Studies of the Medical Profession, Oslo, Norway
- 0117 Performance evaluation of N95 respirator affecting factors
Chane-Yu Lai, Hsio-Chuan Lin, Pei-Yi Chiang
Chung Shan Medical University, Taichung, Taiwan
- 0118 Sampling Evaluation of Bioaerosol and Antibiotic-resistant Characteristics in Intensive Care Unit
Chane-Yu Lai^{1,2}, Nien-Xin Wu¹, Ann-Ru Kuo^{2,3}, Ya-Huei Lin⁰
¹Chung Shan Medical University, Taichung, Taiwan, ²OSH Respirator Test Center, Taichung, Taiwan, ³Chung Shan Medical University Hospital, Taichung, Taiwan
- 0132 Immunological hazards in engineered nanomaterial handling workers
Chung-Ching Wang¹, Wei-Liang Chen¹, Ying-Chuan Wang¹, Sheng-Ta Chiang¹, Saou-Hsing Liou^{2,3}
¹Division of Family Medicine, Department of Family and Community Medicine, Tri-

Service General Hospital, National Defense Medical Center, Taipei, Taiwan,
²*Department of Public Health, National Defense Medical Center, Taipei, Taiwan,*
³*National Institute of Environmental Health Science, National Health Research Institutes, Miaoli, Taiwan*

- 0145 Effects of perceived job insecurity on depression, suicide ideation, and decline in self-rated health in Korea: A population-based panel study
Min-Seok Kim², Yun-Chul Hong², Ji-Hoo Yook², Mo-Yeol Kang¹
¹*Seoul St. Mary's Hospital, Seoul, Republic of Korea,* ²*Seoul National University, Seoul, Republic of Korea*
- 0155 Negotiating risks and uncertainties: Health and Safety decision-making in the mines of Potosí (Bolivia)
Mei Trueba
University of Sussex, Brighton, UK
- 0179 Factors associated with high need for recovery in different age groups
Philippe Kiss^{1,2}, Marc De Meester^{1,2}, Lutgart Braeckman²
¹*Securex Occupational Health Service, Ghent, Belgium,* ²*Ghent University, Ghent, Belgium*
- 0183 Predictors of work ability in solvent exposed workers
Ari Kaukiainen^{1,2}, Heidi Furu¹, Hanna-Kaisa Hyvärinen¹, Markku Sainio¹
¹*Finnish Institute of Occupational Health, Helsinki, Finland,* ²*LocalTapiola General, LocalTapiola Group, Espoo, Finland*
- 0184 Considering giving up gainful employment as predictor for early exit from the labour force
Uwe Rose, Hermann Burr, Norbert Kersten
Federal Institute for Occupational Safety and Health (FIOSH), Berlin, Germany
- 0201 Survey to determine usual care in the UK NHS Occupational Health departments in managing staff who go on sick leave with common mental health disorders.
Dorota Juszczak, Brian See, Vaughan Parsons, Ira Madan
Guy's and St Thomas' NHS Foundation Trust, London, UK
- 0210 A study on the verbal violence experiences of customer service workers and presenteeism
W.S. Hwang¹, I. Kim^{1,2}, J. Song^{1,2}
¹*Graduate School of Public Health, Hanyang University, Seoul, Republic of Korea,*
²*Occupational and Environmental Medicine, Hanyang University, Seoul, Republic of Korea*
- 0224 Comparison of prevalence and associated factors of hypertension between ship officers and In-land officers of the Royal Thai Navy
Chamchan Chanchang^{1,2}, Pornchai Sithisarankul², Sethasiri Sangsuwan¹
¹*Naval Medical Department, Royal Thai Navy, Bangkok, Thailand,* ²*Faculty of medicine, Chulalongkorn University, Bangkok, Thailand*
- 0225 Effects of change in work organisation on psychological well-being: influence of psychological demand, decision latitude and social support.
Maylis Telle-Lamberton, Florian Pontin
ORS Ile-de-France, Paris, France
- 0229 Risk of Heat Related Illness in Latino Agricultural Workers: Core Body Temperature and Work Task
Javier Castro, Diane Mitchell, Tracey Armitage, Marc Schenker
University of California, Davis, Davis, California, USA
- 0231 Occupational respirable crystalline silica exposure related to FEV₁ decline among normal or early abnormal ILO chest-radiographs of sandstone-workers; a six month follow up
Naesinee Chaiear¹, Peerawat Trakultaweek¹, Watchara Boonsawat²
¹*Unit of Occupational Medicine, Department of Community Medicine, Faculty of Medicine, Khon Kaen University, Khon Kaen, Thailand,* ²*Unit of Respiratory and Critical Care, Department of Medicine, Faculty of Medicine, Khon Kaen University,*

Khon Kaen, Thailand

- 0250 Neck and upper limb complaints in health workers: a warning of mental strain, or just a mechanical problem?
Silvia Santo Domingo¹, Rebeca Marinas^{2,3}, Yolanda Casalod², Miguel Bolea², Begoña Martínez²
¹*Servicio Riojano de Salud. Servicio de Prevención de Riesgos Laborales., Logroño, La Rioja, Spain,* ²*Grupo Consolidado de Investigación GIIIS063 de Medicina del Trabajo del Instituto de Investigación Sanitaria de Aragón & Grupo Consolidado B44. School of Occupational Medicine, University of Zaragoza., Zaragoza, Aragón, Spain,* ³*Servicio de Medicina Interna. Hospital Clínico Universitario "Lozano Blesa", Zaragoza, Aragón, Spain*
- 0259 Air pollutants associated with baseline in fractional exhaled nitric oxide (FeNO) in school children
Tzu-Pei Wang¹, Chi-Hsien Chen², Bing-Yu Chen¹, Yue-Leon Guo^{1,2}
¹*Institute of Occupational Medicine and Industrial Hygiene, National Taiwan University, Taipei, Taiwan,* ²*Department of Environmental and Occupational Medicine, National Taiwan University College of Medicine and NTU Hospital, Taipei, Taiwan*
- 0274 The profile of informal carers in a cohort of 50-64 year-olds: results from the Health and Employment After Fifty (HEAF) study
E Clare Harris^{1,2}, Stefania D'Angelo^{1,2}, Holly Syddall¹, Cathy Linaker^{1,2}, David Coggon^{1,2}, Karen Walker-Bone^{1,2}, Keith T Palmer^{1,2}
¹*MRC Lifecourse Epidemiology Unit, University of Southampton, Southampton, UK,* ²*Arthritis Research UK/MRC Centre for Musculoskeletal Health and Work, University of Southampton, Southampton, UK*
- 0279 Occupational exposure to dust components and alterations in immune/inflammation markers among taconite workers in Minnesota
Rony F. Arauz¹, Jeffrey H. Mandel¹, Bin Ma², Bruce Lindgren², Irina Stepanov^{1,2}
¹*Division of Environmental Health Sciences, University of Minnesota, Minneapolis, Minnesota, USA,* ²*Masonic Cancer Center, University of Minnesota, Minneapolis, Minnesota, USA*
- 0296 Gradual return to work among work-disabled employees in Belgium: Barriers and possibilities for improvement
Miriam van Dick¹, Charlotte Vanovenberghe^{1,2}, Marc Du Bois¹
¹*KU Leuven, Leuven, Belgium,* ²*Landsbond der Christelijke Mutualiteiten, Brussels, Belgium*
- 0310 Medical rehabilitation before the occurrence of early retirement in Germany - prevalence and sociodemographic determinants of non-utilization.
Maria Weyermann
Niederrhein University of Applied Sciences, Krefeld, Germany
- 0311 Can smoking research from the 1950s inform today's shiftwork research? Approaches to assess hypothesized circadian disruption at and off work
Thomas C. Erren, Philip Lewis
University of Cologne, Cologne, Germany
- 0317 Application of failure mode and effect analysis (FMEA) to assess occupational risks in oil Refinery
Mehrzaad Ebrahemzadih^{1,2}, Gholam Hossein Halvan²
¹*Environmental Health Research Center, Kurdistan University of Medical Sciences, Sanandaj, Iran,* ²*Department of Occupational Health, Shahid Sadoughi University of Medical Sciences, Yazd, Iran*
- 0319 Etiologic effect measures versus causal estimates of real world workplace interventions
Monika Izano, Daniel Brown, Andreas Neophytou, Erika Garcia, Ellen A Eisen
University of California, Berkeley, Berkeley, CA, USA
- 0340 Insight into measles epidemics
Paola Altrudo², Serena Carovillano², Caterina Bianchi², Daniele Palumbo², Francesco

Giuffrida², Antonella Carbone², Francesco Bussu¹, Giovanni Delogu¹
¹Università Cattolica del Sacro Cuore, Rome, Italy, ²Cooperativa Operatori Sanitari Associati, Rome, Italy

- 0355 Mortality in a cohort of Danish firefighters.
Kajsa Petersen¹, Julie Elbæk Pedersen¹, Jens Peter Bonde², Niels Ebbenhøj², Johnni Hansen¹
¹The Danish Cancer Society Research Center, Copenhagen, Denmark, ²Department of Occupational and Environmental Medicine, Bispebjerg University Hospital, Copenhagen, Denmark
- 0356 Job strain in managers and workplace social capital: a cross-sectional study from the Danish public sector
Line Leonhardt Laursen, Søren Grove Vejlstrop, Jens Peter Bonde, Johan Høy Jensen
Department of Occupational and Environmental Medicine, Copenhagen University Hospital, Bispebjerg, Copenhagen, Denmark
- 0367 The diagnosis of pneumoconiosis using gas chromatography/mass spectrometry
Hsiao-Yu Yang^{1,2}, Ruei-Hao Shie³, Che-Jui Chang¹, Pau-Chung Chen^{1,2}
¹Institute of Occupational Medicine and Industrial Hygiene, National Taiwan University College of Public Health, Taipei, Taiwan, ²Department of Environmental and Occupational Medicine, National Taiwan University Hospital, Taipei, Taiwan, ³Green Energy & Environmental Research Laboratories, Industrial Technology Research Institute, Hsinchu, Taiwan
- 0393 A systematic literature review: Organophosphate (OP) pesticide exposure and semen quality
Zulhairul Naim Bin Sidek Ahmad¹, Daniel Brison², Andrew Povey¹
¹Centre for Occupational and Environmental Health, School of Health Sciences, Faculty of Biology, Medicine and Health, University of Manchester, Manchester, M13 9PL., UK, ²Department of Reproductive Medicine, St Mary's Hospital, Central Manchester University Hospitals NHS Foundation Trust, Manchester Academic Health Sciences Centre, Oxford Road, Manchester M13 9WL, UK
- 0409 Industry, occupation and sex differences in workers' exposure to endocrine disrupting metals in an American and a Canadian survey
Sabrina Gravel^{1,2}, Jérôme Lavoué^{1,3}, France Labrèche^{1,2}
¹School of Public Health, Université de Montréal, Montreal, Qc, Canada, ²Institut de recherche Robert-Sauvé en santé et en sécurité du travail, Montreal, Qc, Canada, ³Centre de recherche du Centre hospitalier de l'Université de Montréal, Montreal, Qc, Canada
- 0411 Exposure to diesel engine exhaust and the risk of ALS
Susan Peters^{1,2}, Calvin Ge², Jan Veldink¹, Leonard van den Berg¹, Roel Vermeulen²
¹University Medical Centre Utrecht, Utrecht, The Netherlands, ²Utrecht University, Utrecht, The Netherlands
- 0430 Female workers suffered higher psychological symptoms after occupational injuries than male workers
Judith Shiao¹, Wei-Shan Chin^{2,3}, Sherri Yeh³, Leon Guo^{2,3}
¹Nursing, National Taiwan University (NTU) College of Medicine and NTU Hospital, Taipei, Taiwan, ²National Institute of Environmental Health Sciences, National Health Research Institutes, Zhunan, Taiwan, ³Environmental and Occupational Medicine, National Taiwan University (NTU) and NTU Hospital, Taipei, Taiwan
- 0436 Comparison of occupational physicians with attending physicians for opinions on collaboration with their counterparts. How to support of fitness for work of employees with diseases.
Go Muto¹, Kazuhito Yokoyama¹, Fumihiko Kitamura¹, Motoki Endo²
¹Department of Epidemiology and Environmental health, Graduate school of Medicine, Juntendo University, Tokyo, Japan, ²Department of Public health, Tokyo Womens' Medical University, Tokyo, Japan

- 0442 Occupational exposures and Parkinsonism among women textile workers in Shanghai, China
Sindana Ilango^{1,2}, Wenjin Li³, Caroline Tanner⁴, Shu-Ching Hu⁵, Roberta Ray³, Susan Searles Nielsen⁶, Dao Li Gao⁷, Xin Wang⁷, Sadie Costello⁸, David B. Thomas³, Harvey Checkoway¹
¹University of California, San Diego, San Diego, CA, USA, ²San Diego State University, San Diego, CA, USA, ³Fred Hutchinson Cancer Research Center, Seattle, WA, USA, ⁴University of California, San Francisco, San Francisco, CA, USA, ⁵University of Washington, Seattle, WA, USA, ⁶Washington University in St. Louis, St. Louis, MO, USA, ⁷Zhong Shan Hospital Cancer Center, Shanghai, China, ⁸University of California, Department of Environmental Health Sciences, Berkeley, CA, USA
- 0448 Effects of organizational change on workplace social capital: a longitudinal study of hospital work units
Søren Grove Vejlstrup, Line Leonhardt Laursen, Jens Peter Bonde, Johan Høy Jensen
 Copenhagen University Hospital Bispebjerg, Copenhagen, Denmark
- 0449 Leading and lagging indicators for the prevention of violence towards workers in health care
Christopher McLeod^{1,2}, Sharon Provost¹, Kelvin Choi¹, Benjamin Amick III^{2,3}, George Astrakianakis⁰
¹School of Population and Public Health, The University of British Columbia, Vancouver, British Columbia, Canada, ²Institute for Work & Health, Toronto, Ontario, Canada, ³Florida International University, Miami, Florida, USA
- 0463 Occupational intoxication by mercury and neurotoxicity: professional disease.
Marita Del Pilar Asmat Inostrosa, Javier Valdés Valdazo, Jose Manuel De La Torre Robles, Maria Victoria Casares Del Rio, Luis Enrique Alonso Herrero
 Leon Hospital, Leon, Spain
- 0481 Sickness absence and presenteeism rate in socio-demographic groups in Latvia 2006 – 2016
Svetlana Lakisa¹, Inese Gobine², Ivars Vanazins¹
¹Riga Stadins University, Institute of Occupational Safety and Environmental Health, Riga, Latvia, ²Riga Stadins University, Public Health and Social Welfare Faculty, Riga, Latvia
- 0504 State compensation for occupational diseases: The Work of the Industrial Injuries Advisory Council
Ian Chetland
 Department of Work and Pensions, London, UK

EPICOH Management Meeting

12:45-14:15 Pentland

Chair: Roel Vermeulen & Neela Guha

Poster walk 2-1 (Psychosocial)

13:30-14:15 Cromdale

Chair: Vaughan Parsons

- 0058 Accuracy of a single item on mentally tiring work as proxy measure of job demands and efforts in the Gazel cohort
Alexis Descatha¹, Linda L Magnusson Hanson², Ida E. H. Madsen³, Reiner Rugulies³, Paraskevi Peristera², Hugo Westerlund²
¹Inserm UVSQ, Villejuif, France, ²Stockholm University, Stockholm, Sweden, ³National Research Centre for the Working Environment, Copenhagen, Denmark
- 0099 Psychological work environment and suicidal ideation among nurses in Taiwan
Weishan Chin¹, Juidth Shu-Chu Shiao², Yue-Liang Leon Guo^{3,4}, Yu-Ju Li², Pei-Yi Hu⁵, Jiune-Jye Ho⁵
¹Institute of Occupational Medicine and Industrial Hygiene, National Taiwan University School of Public Health, Taipei, Taiwan, ²Department of Nursing, College of Medicine, National Taiwan University (NTU) and NTU Hospital, Taipei, Taiwan, ³National

Institute of Environmental Health Science, National Health Research Institutes, Zhunan, Taiwan, ⁴Department of Environmental and Occupational Medicine, National Taiwan University (NTU) and NTU Hospital, Taipei, Taiwan, ⁵Institute of Labor, Occupational safety and Health, Ministry of Labor, Taipei, Taiwan

- 0110 The association between psychosocial factors and needlestick injuries among nurses working in different healthcare settings
Ting-Ti Lin¹, Judith Shu-Chu Shiao², Yue-Liang Guo^{3,4}, Hsueh-Ching Wu⁵, Jiune-Jye Ho⁶
¹College of Nursing, University of Illinois at Chicago, Chicago, USA, ²School of Nursing, College of Medicine, National Taiwan University, Taipei City, Taiwan, ³Institute of Occupational Medicine and Industrial Hygiene, School of Public Health, National Taiwan University, Taipei City, Taiwan, ⁴Department of Environmental and Occupational Medicine, National Taiwan University (NTU) and NTU Hospital, Taipei City, Taiwan, ⁵Department of Nursing, Hsin Sheng Junior College of Medical Care and Management, Taoyuan City, Taiwan, ⁶Institute of Labor, Occupational Safety and Health, Ministry of Labor, New Taipei City, Taiwan
- 0188 Trajectories of well-being: time-varying effects of psychosocial determinants of health at work
Mariana Neto^{4,2}, Maria José Chambel¹, Sérgio Manuel³, José Pereira Miguel², Maria de Fátima Reis²
¹Faculdade de Psicologia da Universidade de Lisboa, Lisboa, Portugal, ²ISAMB - Instituto de Saúde Ambiental. Faculdade de Medicina da Universidade de Lisboa, Lisboa, Portugal, ³EDP - Eletricidade de Portugal, Lisboa, Portugal, ⁴Instituto Nacional de Saúde Doutor Ricardo Jorge, Lisboa, Portugal
- 0257 Associations of individual level and job-group level estimates of psychosocial work factors with depressive symptoms
Ole Melkevik, Reiner Rugulies, Ida E.H. Madsen
National Research Centre for the Working Environment, Copenhagen, Denmark
- 0342 Perception of psychosocial factors at work according to age.
Régis Colin, Stéphanie Boini, Michel Grzebyk
INRS, Vandoeuvre-les-Nancy, France
- 0346 Relationship between psychological stress-job satisfaction and weight change in employees at a global oil and gas company
April Clark, Delya Sommerville, Richard Heron
BP Plc, Houston, Texas, USA
- 0193 Alcohol and other drugs among workers: Prevalence and job related consequences.
Marie-Claire Lambrechts^{1,3}, Lieve Vandersmissen², Lode Godderis^{1,2}
¹Katholieke Universiteit Leuven, University of Leuven, Leuven, Belgium, ²Idewe, External Service for Prevention and Protection at Work, Heverlee, Belgium, ³VAD, Flemish centre of expertise on alcohol and other drugs, Brussels, Belgium

Poster walk 2-2 (Respiratory)

13:30-14:15 Cromdale

Chair: Sara De Matteis

- 0012 Pulmonary function and high-resolution computed tomography (HRCT) in offshore oil drillers
Niels Kirkhus, Øivind Skare, Dag Gunnar Ellingsen, Raymond Olsen, Yngvar Thomassen
National Institute of Occupational Health, Oslo, Norway
- 0081 Change in respiratory heat flows in response to wearing half-mask respirators in hot-and-humid environment
Chen-Peng Chen¹, Yi-Chun Lin², Hui-Chen Wei¹
¹Department of Occupational Safety and Health, China Medical University, Taichung, Taiwan, ²Department of Public Health, China Medical University, Taichung, Taiwan
- 0092 A critical evaluation of Fractional exhaled Nitric Oxide (FeNO) and pulmonary function test levels in bakery and plastics workers.

*Halim Issever, Hulya Dogan Tiryaki, Nefise Seker, Elif Ezirmik, Iklim Gurcan
Istanbul University, Faculty of Medicine, Istanbul, Turkey*

- 0205 Spirometric changes in normal or early ILO pneumoconiosis radiographs of sandstone-dust exposed workers: a preliminary result
Peerawat Trakultaweek¹, Naesinee Chaiear¹, Watchara Boonsawat¹, Jiraporn Khiewyoo¹, Phanumas Krisorn¹, Kritin Silanun²
¹Khon Kaen University, Khon Kaen, Thailand, ²Thammasart University, Bangkok, Thailand
- 0244 The diagnosis of pneumoconiosis using a sensor array technique
Hsin-Yi Peng¹, Che-Jui Chang¹, Pau-Chung Chen^{1,2}, Hsiao-Yu Yang^{1,2}
¹Institute of Occupational Medicine and Industrial Hygiene, National Taiwan University College of Public Health, Taipei, Taiwan, ²Department of Environmental and Occupational Medicine, National Taiwan University Hospital, Taipei, Taiwan
- 0277 Sensitivity and Specificity of Occupational Health Doctors Reading of Early Stage Pneumoconiosis Radiographs
Phanumas Krisorn¹, Naesinee Chaiear¹, Ponglada Subhannachar², Narongpon Dumavibhat³, Sutarat Tungsagunwattana², Kritin Silanun⁰
¹Division of Occupational Medicine, Department of Community Medicine, Faculty of Medicine, Khon Kaen University, Khon Kaen, Thailand, ²Central Chest Institute of Thailand, Department of Medical Services, Ministry of Public Health, Nonthaburi, Thailand, ³Department of Preventive and Social Medicine, Faculty of Medicine Siriraj Hospital, Mahidol University, Bangkok, Thailand, ⁴Department of Community Medicine and Family Medicine, Faculty of Medicine, Thammasat University, Pathum Thani, Thailand
- 0376 If the mask fits: An assessment of facial dimensions and mask effectiveness
Thomas Winski, Will Mueller, Richard Graveling
The Institute of Occupational Medicine, Edinburgh, Scotland, UK
- 0457 Consequences of asthma on occupational and socio-economic characteristics in the SIP study
Dorothee Provost¹, Jean-Francois Chastang³, Marie-Christine Delmas¹, Chantal Raheison², Yuriko Iwatsubo¹
¹Santé publique France, Saint Maurice, France, ²INSERM U219, Bordeaux, France, ³INSERM UMRS 1136, Paris, France

Poster walk 2-3 (Occupational Medicine - SCOM/Modernet)

13:30-14:15 Cromdale

Chair: Raymond Agius

- 0014 How do we eliminate occupational diseases in Great Britain?
Anne Raynal¹, Robbert Hermanns²
¹University of Cape Town, Cape Town, South Africa, ²University of Glasgow, Glasgow, UK
- 0035 Notch and notch area among hearing loss employees at chemical industries in Rayong, Thailand
Theerasit Chernbamrung^{1,3}, Wittaya Pichetviracha², Sirinthip Chanduaywit¹, Wantanee Hwanrarueng¹, Wanida Incht¹
¹Occupational Medicine Department, Rayong Provincial Hospital, Rayong, Thailand, ²The Office of Disease Prevention and Control 2, Phitsanulok, Thailand, ³Faculty of Medicine, Chulalongkorn University, Bangkok, Thailand
- 0102 Chest X-ray screening for pre-employed healthcare workers in private hospital, Thailand
Worrapan Karnjanakantorn
Bangkok Hospital Group, Bangkok, Thailand
- 0215 Internationalizing SIGNAAL: The European chance in occupational health vigilance - proposal for the Spanish version.
Chiara Foresti¹, Annet Lenderink², Stefano Mattioli¹, Lode Godderis^{3,4}, Ana Beltran⁵, Consol Serra^{6,7}

¹School of Occupational Medicine, Department of Medical and Surgical Sciences, University of Bologna, Bologna, Italy, ²AMC / University of Amsterdam, Netherlands Center for Occupational Diseases, Coronel Institute on Work and Health, Amsterdam, The Netherlands, ³KULeuven, Center for Environment and Health, Kapucijnenvoer 35/5, 3000 Leuven, Belgium, ⁴Idewe External Service for Prevention and Protection at Work, Interleuvenlaan 58, 3001 Heverlee, Belgium, ⁵IMIM - Hospital del Mar Medical Research Institute, Barcelona, Spain, ⁶CiSAL - Center of Research in Occupational Health, Barcelona, Spain, ⁷CIBER of Epidemiology and Public Health, Spain, Spain

- 0278 Work related characteristics of lung cancers among male construction workers: Focusing on Occupational cancer surveillance data in Korea, 2011-2016
Bo Reum Seo¹, Yoon-Ji Kim¹, Dongmug Kang^{1,2}, Jong-Eun Kim², Young-Ki Kim^{1,2}
¹Preventive and Occupational Medicine, School of Medicine, Yangsan-si, Gyeongsangnam-do, Republic of Korea, ²Occupational and Environmental Medicine, Pusan National University Yangsan Hospital, Yangsan-si, Gyeongsangnam-do, Republic of Korea
- 0404 Surveillance of occupational eye injury through emergency services: two-year experiences in a medical center of Taiwan
Ting-Chia Weng¹, I-Lin Hsu^{2,3}, Chia-Chang Chuang², Jung-Der Wang^{1,3}, How-Ran Guo^{1,4}, Yau-Chang Kuo^{1,4}
¹Department of Occupational and Environmental Medicine, National Cheng Kung University Hospital, Tainan, Taiwan, ²Department of Emergency Medicine, National Cheng Kung University Hospital, Tainan, Taiwan, ³Department of Public Health, College of Medicine, National Cheng Kung University, Tainan, Taiwan, ⁴Department of Environmental and Occupational Health, National Cheng Kung University, Tainan, Taiwan
- 0433 Towards an ideal national work-related ill health surveillance system in Great Britain
Yiqun Chen, David Fishwick, Andrew Curran
Health and Safety Executive, Buxton, UK
- 0477 Non-communicable diseases and risk factors among police personnel in Jodhpur, India.
Jitendra Kumar Meena^{1,2}, Neeti Rustagi², Vikram Jangir⁰
¹Geetanjali Medical College & Hospital, Udaipur, Rajasthan, India, ²All India Institute of Medical Sciences, Jodhpur, Rajasthan, India

Poster walk 2-4 (Working conditions)

13:30-14:15 Cromdale

Chair: Eira Viikari-Juntura

- 0018 Do highly active workers die early? Elucidating the physical activity health paradox in a systematic review with meta-analyses
Pieter Coenen¹, Maaïke Huysmans¹, Andreas Holtermann³, Niklas Krause⁴, Willem van Mechelen¹, Leon Straker², Allard van der Beek¹
¹Department of Public and Occupational Health, VU University Medical Center, Amsterdam Public Health Research Institute, Amsterdam, The Netherlands, ²School of Physiotherapy and Exercise Science, Curtin University, Perth, Australia, ³National Research Centre for the Working Environment, Copenhagen, Denmark, ⁴Department of Environmental Health Sciences and Department of Epidemiology, School of Public Health, University of California Los Angeles, Los Angeles, USA
- 0042 The association between employment status and work-related health status - results of the 4th Korean working conditions survey
Hogil Kim, Inah Kim, Soojin Lee, Jaechul Song
Department of Occupational and Environmental Medicine, College of Medicine, Hanyang University, Seoul, Republic of Korea
- 0054 The relationship between on-call work and health problem and injury among Korean workers
Jae Bum Park¹, Chulin Baek²
¹School of Medicine, Ajou University, Suwon, Gyeonggi-do, Republic of Korea, ²Ajou

University Hospital, Suwon, Gyeonggi-do, Republic of Korea

- 0101 Occupational exposures and depressive symptoms of pregnant workers in Taiwan
Sherri Yeh¹, Chi-Hsien Chen¹, Chien-Nan Lee², Ying-Hsuan Wu¹, Nai-Chi Tu¹, Yue-Leon Guo^{1,4}, Pau-Chung Chen^{1,3}
¹Department of Environmental and Occupational Medicine, and Centers for Occupational Disease and Injury Service, National Taiwan University Hospital, Taipei City, Taiwan, ²Department of Gynecology and Obstetrics, National Taiwan University Hospital, Taipei City, Taiwan, ³Institute of Occupational Medicine and Industrial Hygiene, National Taiwan University College of Public Health, Taipei City, Taiwan, ⁴National Health Research Institute, Miaoli County, Taiwan
- 0206 The longitudinal association between multiple job holding and long-term sickness absence among Danish employees. An explorative study using register-based data
Stef Bouwhuis^{1,2}, Anne Helene Garde³, Goedele Geuskens^{2,5}, Cécile Boot^{1,4}, Paulien Bongers^{2,1}, Allard van der Beek^{1,4}
¹VU University Medical Center, Amsterdam, The Netherlands, ²TNO, Leiden, The Netherlands, ³NRCWE, Copenhagen, Denmark, ⁴Amsterdam Public Health Research Institute, Amsterdam, The Netherlands, ⁵Body@Work, Amsterdam, The Netherlands
- 0269 Occupational risks and health problems of anesthesia technicians and doctors in operating room, a university hospital study
Elif Aylin Yuçe¹, Meral Turk¹, Hediye Asli Davas¹, Aslihan Esra Yuksef²
¹EGE University Faculty of Medicine Department of Public Health, Izmir, Turkey, ²EGE University Faculty of Medicine Department of Anesthesiology and Reanimation, Izmir, Turkey
- 0350 Return-to-work for multiple jobholders with a work-related musculoskeletal disorder: a population-based, matched cohort in British Columbia
Esther Maas, Mieke Koehoorn, Christopher McLeod
University of British Columbia, Vancouver, BC, Canada
- 0389 Knowledge transfer practices among work and health researchers
Dwayne Van Eerd¹, Siobhan Cardoso¹
¹Institute for Work & Health, Toronto, Ontario, Canada, ²School of Public Health and Health Systems, University of Waterloo, Waterloo, Ontario, Canada

SCOM/Modernet 2

14:15-16:00 Pentland

Chair: Ewan MacDonald & Drushca Lalloo

- 0403 Findings from the first year of MAREL: The Italian network on work-related diseases
14:15-
14:30
Stefania Curti¹, Stefano Mattioli¹, Pierluigi Cocco², Alfonso Cristaudo³, Marco dell'Omo⁴, Giovanni Mosconi⁵, Giuseppe Campo⁶
¹Department of Medical and Surgical Sciences, University of Bologna, Bologna, Italy, ²Department of Public Health, Clinical and Molecular Medicine, University of Cagliari, Cagliari, Italy, ³Unit of Occupational Medicine, University of Pisa, Pisa, Italy, ⁴Unit of Occupational and Environmental Medicine, Department of Medicine, University of Perugia, Perugia, Italy, ⁵Unit of Occupational Medicine, Azienda Ospedaliera Papa Giovanni XXIII, Bergamo, Italy, ⁶Department of Work and Environmental Medicine, Epidemiology and Hygiene, National Institute for Insurance against Accidents at Work (INAIL), Rome, Italy
- 0175 Different approaches for early recognition and prevention of new and emerging work-related diseases
14:30-
14:45
Jelena Bakusic¹, Annet Lenderink², Charlotte Lambreghts^{1,3}, Sofie Vandebroeck^{1,3}, Jos Verbeek⁴, Stefania Curti⁵, Stefano Mattioli⁵, Lode Godderis^{1,3}
¹Department of Public Health and Primary Care, KU Leuven, Leuven, Belgium, ²Netherlands Center for Occupational Diseases, Coronel Institute on Work and Health, AMC/University of Amsterdam, Amsterdam, The Netherlands, ³IDewe, External Service for Prevention and Protection at Work, Heverlee, Belgium, ⁴Finnish Institute of Occupational Health, Kuopio, Finland, ⁵Department of Medical and Surgical Sciences,

University of Bologna, Bologna, Italy

- 0181
14:45-
15:00
Methodologies to identify work-related diseases: in-depth description of selected of sentinel or alert systems
Annet Lenderink¹, Jelena Bakusic², Sofie Vandenbroeck², Charlotte Lambreghts², Lode Godderis²
¹Netherlands Center for Occupational Diseases, Coronel Institute on Work and Health, AMC/University of Amsterdam, Amsterdam, The Netherlands, ²Centre for Environment and Health, Katholieke Universiteit Leuven, Leuven, Belgium
- 0275
15:00-
15:15
Accounting for reporter fatigue and excess zeros when estimating the true rate of Work-Related Ill-Health in a voluntary reporting surveillance scheme.
Matthew Gittins, Roseanne McNamee, Fiona Holland, Lesley Carter
University of Manchester, Manchester, UK
- 0456
15:15-
15:30
Initial Results from a New Canadian Occupational Disease Surveillance System
Paul A Demers^{1,2}, Jill MacLeod¹, Alice Peter⁴, Saul Feinstein¹, Luis Palma Lazgare¹, Chris McLeod³
¹Occupational Cancer Research Centre, Toronto, Ontario, Canada, ²University of Toronto, Toronto, Ontario, Canada, ³University of British Columbia, Vancouver, BC, Canada, ⁴Cancer Care Ontario, Toronto, Ontario, Canada
- 0025
15:30-
15:45
Conducting global occupational epidemiology research in a changing socio-political climate: case study of research among shanghai, china textile workers
Harvey Checkoway¹, David Christiani², David Wegman³
¹University of California, San Diego, Departments of Family Medicine & Public Health and Neurosciences, San Diego, California, USA, ²Harvard T.H. Chan School of Public Health, Departments of Environmental Health and Epidemiology, Boston, Massachusetts, USA, ³University of Massachusetts Lowell, Lowell, Massachusetts, USA
- 0399
15:45-
16:00
Individual sensitivity. How should occupational health respond?
Chris Kalman
NHS Forth Valley, Scotland, UK

Neurodegenerative Disease in Sportspersons Mini-symposium, including discussion

14:15-16:00 Sidlaw

Chair: Neil Pearce & Valentina Gallo

- 0497
Head trauma in sport and neurodegenerative disease: An introduction and review of the epidemiological evidence
Neil Pearce^{1,2}, Valentina Gallo³, Damien McElvenny⁴
¹London School of Hygiene and Tropical Medicine, London, UK, ²Centre for Public Health Research, Massey University, Wellington, New Zealand, ³Queen Mary, University of London, London, UK, ⁴Institute of Occupational Medicine, Edinburgh, UK
- 0499
Long-term health outcomes after exposure to repeated concussion in elite level rugby union players
Tom McMillan¹, P McSkimming², J Wainman-Lefley¹, LM Maclean¹, J Hay³, A McConnachie¹, W Stewart^{3,4}
¹Institute for Health & Wellbeing, University of Glasgow, Glasgow, UK, ²Robertson Centre for Biostatistics, University of Glasgow, Glasgow, UK, ³Department of Neuropathology, Queen Elizabeth University Hospital, Glasgow, UK, ⁴Institute of Neuroscience and Psychology, University of Glasgow, Glasgow, UK
- 0491
Brain Health and Ageing in Retired Rugby Players, the Brain Study
Damien McElvenny¹, Valentina Gallo², Catherine Hobbs³, Seb Crutch⁴, Huw Morris⁴, Nick Fox⁴, Henrik Zetterberg⁴, Matt Cross⁵, Simon Kemp⁵, Andrea Malaspina², Nigel Arden⁶, Madeline Davies⁶, Neil Pearce³
¹Institute of Occupational Medicine, Edinburgh, UK, ²Queen Mary, University of London, London, UK, ³London School of Hygiene and Tropical Medicine, London, UK, ⁴University College, University of London, London, UK, ⁵Rugby Football Union, London, UK, ⁶University of Oxford, Oxford, UK

- 0492 Assessment of exposure to sub-concussive head impacts in former professional soccer players
John Cherrie¹, Ioannis Babinas¹, Martie van Tongeren², Damien McElvenny¹, Valentina Gallo³, Neil Pearce⁴
¹Institute of Occupational Medicine, Edinburgh, UK, ²University of Manchester, Manchester, UK, ³Queen Mary, University of London, London, UK, ⁴London School of Hygiene and Tropical Medicine, London, UK
- 0498 Biomarkers of concussion
Valentina Gallo^{1,3}, Damien McElvenny², Neil Pearce³
¹Queen Mary, University of London, London, UK, ²Institute of Occupational Medicine, Edinburgh, UK, ³London School of Hygiene and Tropical Medicine, London, UK

Population Interventions Mini-symposium, including discussion

14:15-16:00 **Fintry**

Chair: Eira Viikari-Juntura

- 0087 The impact on labor market affiliation of changes in sickness absence benefit legislation using a newly developed Danish register on salary and social payments, 2010-2014.
Jacob Pedersen
 National Research Centre for the Working Environment, Copenhagen O, Denmark
- 0213 The impact of the Norwegian Cooperation Agreement on a More Inclusive Working Life (IA Agreement) on sickness absence and disability pensioning
Therese Nordberg Hanvold¹, Karina Corbett¹, Rune Hoff^{1,2}, Petter Kristensen^{1,3}, Ingrid Sivesind Mehlum¹
¹National Institute of Occupational Health, Oslo, Norway, ²Department of Biostatistics, University of Oslo, Oslo, Norway, ³Institute of Health and Society, University of Oslo, Oslo, Norway
- 0256 Labour market segregation and gender differences in sickness absence: trends in 2005-2013 in Finland
Taina Leinonen¹, Eira Viikari-Juntura¹, Kirsti Husgafvel-Pursiainen¹, Lauri Virta², Mikko Laaksonen³, Ilona Autti-Rämö², Svetlana Solovieva¹
¹Finnish Institute of Occupational Health, Helsinki, Finland, ²The Social Insurance Institution of Finland, Helsinki, Finland, ³Finnish Centre for Pensions, Helsinki, Finland
- 0236 Did a legislative change enabling use of part-time sick leave at an early stage of work disability enhance work participation in Finland?
Svetlana Solovieva¹, Lauri Virta², Johanna Kausto¹, Ilona Autti-Rämö², Kari-Pekka Martimo¹, Mikko Laaksonen³, Taina Leinonen¹, Kirsti Husgafvel-Pursiainen¹, Alex Burdorf⁴, Eira Viikari-Juntura¹
¹Finnish Institute of Occupational Health, Helsinki, Finland, ²The Social Insurance Institution of Finland, Helsinki, Finland, ³Finnish Centre for Pensions, Helsinki, Finland, ⁴Erasmus MC, University Medical Center Rotterdam, Rotterdam, The Netherlands
- 0220 Advancing the prevention of long-term sickness absence: Considering the impact of the context of legislation in effective preventive strategies.
Ludovic van Amelsvoort, Nicole Jansen, IJmert Kant
 Maastricht University, Department of Epidemiology, CAPRHI, Maastricht, The Netherlands

Dusts & Fibres, followed by discussion

14:15-16:00 **Moorfoot**

Chair: Henrik Kolstad & Matthew Govorko

- 0095 Longitudinal course of lung function and the risk of developing coal workers' pneumoconiosis in a German inception cohort of Ruhr coal miners, 1974-2010
 14:15-14:30
Mei Yong¹, Laura Anderle¹, Rudolf Derwall², Volker Schenk², Heinz Johannes Bicker², S Eberwein², G Mann², Hellmut Lenaerts², Nicolai Schrader², Bernhard Kalkowsky², Andreas Kösters², D Brand², Ingmar Prütz², M Barkhoff², Peter Morfeld¹
¹Institute for Occupational Epidemiology and Risk Assessment, Evonik Industries AG,

Essen, Germany, ²Department of Occupational Medicine, RAG AG, Bottrop, Germany

- 0297
14:30-
14:45
Occupational exposure to organic dust and risk of developing rheumatoid arthritis
Anna Ilar¹, Per Gustavsson¹, Pernilla Wiebert¹, Camilla Bengtsson¹, Lars Klareskog²,
Lars Alfredsson¹
¹The Institute of Environmental Medicine, Karolinska Institutet, Stockholm, Sweden,
²Department of Medicine, Rheumatology Unit, Karolinska Institutet, Stockholm,
Sweden
- 0434
14:45-
15:00
A meta-analysis of occupational silica exposure and risk of autoimmune rheumatic
diseases: does study quality matter?
Henrik A. Kolstad¹, Christiane Beer², David Sherson³, Anne Trolborg⁴, Berit
Dalsgaard Nielsen⁴, Anne Braae Olesen⁵, Gitte Jacobsen⁶, Søndergaard Klaus⁴,
Schlünssen Vivi^{2,7}
¹Department of Occupational Medicine, Danish Ramazzini Centre, Aarhus University
Hospital, Aarhus, Denmark, ²Department of Public Health, Danish Ramazzini Centre,
Aarhus, Denmark, ³Department of Occupational and Environmental Medicine,
University of Southern Denmark, Odense, Denmark, ⁴Department of Rheumatology,
Aarhus University Hospital, Aarhus, Denmark, ⁵Department of Dermatology, Aarhus
University Hospital, Aarhus, Denmark, ⁶Department of Occupational Medicine, Danish
Ramazzini Centre, Hospital Region Vest, Herning, Denmark, ⁷National Research
Center for the Working Environment, Copenhagen, Denmark
- 0082
15:00-
15:15
Risk of sarcoidosis and seropositive rheumatoid arthritis from occupational silica
exposure
Per Vihlborg, Ing-Liss Bryngelsson, Lena Andersson, Pål Graff
Department of Occupational and Environmental Medicine, Faculty of Medicine and
Health, Örebro University, Sweden
- 0008
15:15-
15:30
Occupational epidemiology of health risks and chemical exposures among small scale
miners in the Philippines
Jinky Leilanie Lu
National Institutes of Health with the Institute of Health Policy and Development
Studies, University of the Philippines Manila, Manila, The Philippines
- 0026
15:30-
15:45
Development of a new preparation method of human lung tissues for analyzing
asbestos fibers by TEM
Hyunwook Kim¹, Kyung-Hoon Park¹, Kwang-Myong Jang¹, Sungwon Cho²
¹The Catholic University of Korea, Seoul, Republic of Korea, ²Occupational Lung
Diseases Institute, Seoul, Republic of Korea

Working Conditions, followed by discussion

14:15-16:00 Tinto

Chair: Marc Schenker & Tyler Lane

- 0381
14:15-
14:30
The potential impact of three workplace actions on return to work after a work-related
musculoskeletal or psychological injury
Peter Smith^{1,2}, Malcom Sim², Anthony LaMontagne³, Rebecca Lilley⁴, Sheilah Hogg-
Johnson¹
¹Institute for Work & Health, Toronto, Ontario, Canada, ²Monash University,
Melbourne, Victoria, Australia, ³Deakin University, Melbourne, Victoria, Australia,
⁴University of Otago, Otago, New Zealand
- 0182
14:30-
14:45
High school dropout and cause-specific mortality in young adulthood: the mediating
role of work career
Petter Kristensen^{1,2}, Karina Corbett¹, Therese N Hanvold¹, Rune Hoff^{3,1}, Ingrid S
Mehlum¹
¹National Institute of Occupational Health, Oslo, Norway, ²Institute of Health and
Society, University of Oslo, Oslo, Norway, ³Institute of Basic Medical Sciences,
University of Oslo, Oslo, Norway
- 0464
14:45-
15:00
How do gender and jurisdiction interact with work disability duration?
Robert Macpherson¹, Mieke Koehoorn¹, William Quirke¹, Jonathan Fan^{1,2}, Benjamin
Amick², Cameron Mustard², Sheilah Hogg-Johnson², Allen Kraut³, Christopher

McLeod^{1,2}

¹University of British Columbia, Vancouver, British Columbia, Canada, ²Institute for Work & Health, Toronto, Ontario, Canada, ³University of Manitoba, Winnipeg, Manitoba, Canada

- 0466 Labor market and health trajectories during periods of economic recession and
15:00- expansion in the United States, 1988-2011
15:15 Jonathan Fan^{1,2}, Benjamin Amick², Lindsay Richardson³, Heather Scott-Marshall¹,
Chris McLeod^{2,3}
¹University of Toronto, Toronto, Canada, ²Institute for Work & Health, Toronto,
Canada, ³University of British Columbia, Vancouver, Canada
- 0148 Working conditions as risk factors for ill-health retirement: Findings from the Korean
15:15- Longitudinal Study of Ageing (2006-2014)
15:30 Mo-Yeol Kang, Jun-pyo Myong, YounMo Cho, Hyoung-Ryoul Kim
Seoul St. Mary's Hospital, Seoul, Republic of Korea
- 0398 Climate change threats to occupational health and productivity at population level
15:30- Lauren Lines², Tord Kjellstrom^{3,2}, Mattias Otto^{1,2}, Bruno Lemke^{1,2}
15:45 ¹Nelson Marlborough Institute of Technology, Nelson, New Zealand, ²Ruby Coast
Research Centre, Nelson, New Zealand, ³Lund University, Lund, Sweden

Reproductive effects, followed by discussion

14:15-16:00 **Kilsyth**

Chair: Deborah Glass & Camilla Sejbaek

- 0066 Maternal occupational exposure to benzene increases the risk of childhood leukemia
14:15- in offspring - a prospective study in the Norwegian Mother and Child Cohort Study
14:30 Jorunn Kirkeleit^{1,2}, Trond Riise², Tone Bjørge^{2,3}, David C. Christiani⁴, Andrea
Baccarelli⁵, Stefano Mattioli⁶, Björg Eli Hollund^{1,2}, Bjørn Tore Gjertsen²
¹Haukeland University Hospital, Bergen, Norway, ²University of Bergen, Bergen,
Norway, ³Cancer Registry Norway, Oslo, Norway, ⁴Harvard School of Public Health,
Boston, USA, ⁵Columbia University Mailman School of Public Health, New York, USA,
⁶University of Bologna, Bologna, Italy
- 0212 Combined exposure to lifting and psychosocial strain at work and adverse pregnancy
14:30- outcomes - The Danish National Birth Cohort
14:45 Camilla Sandal Sejbaek¹, Hans Bay¹, Ann Dyreborg Larsen¹, Petter Kristensen², Vivi
Schlünssen^{1,3}, Jens Peter Bonde^{4,5}, Mette Juhl⁶, Karin Sørig Hougaard¹
¹National Research Centre for the Working Environment, Copenhagen, Denmark,
²National Institute of Occupational Health, Oslo, Norway, ³Aarhus University, Aarhus,
Denmark, ⁴Bispebjerg Hospital, Copenhagen, Denmark, ⁵University of Copenhagen,
Copenhagen, Denmark, ⁶Metropolitan University College, Copenhagen, Denmark
- 0234 Occupational exposure to n-hexane is associated with reduced FSH levels and also
14:45- with prolonged menstrual cycles in Mexican workers of reproductive age
15:00 Liliana Ruiz-García¹, Giovanni Battista Bartoloucci², Fabiola Salamon², Mariella
Carrier², Juan M. Malacara-Hernández¹, Nicte Figueroa-Vega¹, Octavio A. Jiménez-
Garza³
¹Universidad de Guanajuato, Departamento de Ciencias Médicas, León/Guanajuato,
Mexico, ²Padua University, Cardiology, Thoracic and Vascular Science Department,
Padua/Veneto, Italy, ³Universidad de Guanajuato, Departamento de Enfermería y
Obstetricia, León/Guanajuato, Mexico
- 0238 Occupational noise exposure during pregnancy and child's language acquisition at two
15:00- years of age
15:15 Soile Jungewelter^{1,4}, Helena Taskinen^{1,4}, Marja-Liisa Lindbohm^{1,2}, Jouko Remes³,
Markku Sallmén¹, Erkko Airo¹, Minna Huotilainen⁴, Eira Jansson-Verkasalo⁵
¹Finnish Institute of Occupational Health (FIOH), Helsinki, Finland, ²University of
Tampere, Tampere, Finland, ³Finnish Institute of Occupational Health (FIOH), Oulu,
Finland, ⁴University of Helsinki, Helsinki, Finland, ⁵University of Turku, Turku, Finland
- 0198 The Chlorinated Hydrocarbons contaminated groundwater and the Reproductive
15:15- hazard

15:30 Ching-Chun Lin¹, Pau-Chung Chen^{1,2}, Meng-Shan Tsai¹, Yu Chan Chen¹, Yu Ling Ren¹
¹Institute of Occupational Medicine and Industrial Hygiene, National Taiwan University College of Public Health, Taipei, Taiwan, ²Department of Environmental and Occupational Medicine, National Taiwan University Hospital and National Taiwan University College of Medicine, Taipei, Taiwan, ³Department of Environmental and Occupational Medicine National Taiwan University College of Medicine, Taipei, Taiwan

Coffee

16:00-16:30 Cromdale

SCOM/Modernet 3, followed by discussion

16:30-18:00 Pentland

Chair: Maria Bostrom & David Alvarez Rincón

0157
16:30-16:45 Characteristics of individuals receiving a disability benefit and predictors of leaving the disability benefit scheme. A 5-year follow-up study.

Ilse Louwerse^{1,2}, Maaïke Huysmans^{1,2}, Jolanda van Rijssen^{1,3}, Allard van der Beek^{1,2}, Han Anema^{1,2}

¹Department of Public and Occupational Health, Amsterdam Public Health Research Institute, VU University Medical Center, Amsterdam, The Netherlands, ²Research Center for Insurance Medicine, AMC-UMCG-VUmc, Amsterdam, The Netherlands, ³Dutch Institute of Employee Benefit Schemes (UWV), Amsterdam, The Netherlands

0030
16:45-17:00 Opportunities for recovery at work and excellent work ability - a cross-sectional population study among young workers

Maria Boström¹, Judith K Sluiter², Mats Hagberg¹, Anna Grimby-Ekman¹
¹Sahlgrenska Academy, University of Gothenburg, Gothenburg, Sweden, ²Academic Medical Center, Coronel Institute of Occupational Health, Amsterdam, The Netherlands

0031
17:00-17:15 Work-related physical risk factors for specific shoulder disorders: systematic review and meta-analysis

Henk van der Molen¹, Chiara Foresti², Joost Daams¹, Monique Frings-Dresen¹, Paul Kuijer¹

¹Coronel Institute of Occupational Health, Netherlands Center for Occupational Diseases, Academic Medical Center, Amsterdam, The Netherlands, ²School of Occupational Medicine, Department of Medical and Surgical Sciences, University of Bologna, Bologna, Italy

0405
17:15-17:30 Predicting the impact of the EU Vibration directive on the prevalence of vibration white finger (VWF), carpal tunnel syndrome (CTS) and sensorineural symptoms across Europe

S Jill Stocks¹, Begoña Martínez-Jarreta², Riitta Sauni³, David A Berk¹

¹University of Manchester, Manchester, UK, ²University of Zaragoza, Zaragoza, Spain, ³Ministry of Social Affairs and Health, Tampere, Finland

0114
17:30-17:45 Comparison of competency priorities between UK occupational physicians and nurses.
Drushca Lalloo¹, Evangelia Demou², Marisa Stevenson³, Mairi Gaffney¹, Ewan. B. Macdonald¹

¹Healthy Working Lives Group, Institute of Health and Wellbeing, College of Medical, Veterinary and Life Sciences, University of Glasgow, Glasgow, UK, ²MRC/CSO Social and Public Health Sciences Unit, Institute of Health and Wellbeing, College of Medical, Veterinary and Life Sciences, University of Glasgow, Glasgow, UK, ³University of The West Of Scotland, Paisley Campus, Glasgow, UK

Pesticide Exposure Mini-symposium, including discussion

16:30-18:00 Sidlaw

Chair: John Cherrie & Ioannis Basinas

- 0493 Improving exposure assessment methodologies for occupational epidemiological studies on pesticides
John Cherrie^{1,2}
¹*Institute of Occupational Medicine, Edinburgh, UK*, ²*Institute of Biological Chemistry, Biophysics and Bioengineering, Heriot Watt University, Edinburgh, UK*
- 0494 A regulatory perspective on the need for improving exposure assessment for epidemiological studies on pesticides
Paul Hamey
Health and Safety Executive, York, UK
- 0495 Overview of the exposure assessment methodological issues for epidemiological studies on pesticides
Hans Kromhout
Institute for Risk Assessment Science (IRAS), Utrecht University, Utrecht, The Netherlands
- 0496 Improving occupational exposure assessment methodologies for epidemiological studies on plant protection products
Karen Galea, Ioannis Basinas
Institute of Occupational Medicine, Edinburgh, UK

Asbestos, followed by discussion

16:30-18:00 Fintry

Chair: Alison Reid & Anna Suraya

- 0139 Mortality and mesothelioma incidence among chrysotile asbestos miners in Balangero, Italy: a cohort study
16:30-16:45
Daniela Ferrante¹, Dario Mirabelli^{2,3}, Andrea Giovannini⁴, Patrizia Tribaudino⁴, Corrado Magnani^{1,3}
¹*Department of Translational Medicine - Unit of Medical Statistics and Cancer Epidemiology, CPO Piemonte and University of Piemonte Orientale, Novara, Italy*, ²*Unit of Cancer Epidemiology, CPO Piemonte and University of Turin, Turin, Italy*, ³*Interdepartmental Centre G. Scansetti for Studies on Asbestos and other Toxic Particulates, University of Turin, Turin, Italy*, ⁴*Centre for surveillance on occupational diseases, Public Prosecution Office, Turin, Italy*
- 0321 Association between occupational exposure to asbestos and cholangiocarcinoma: a population-based nested case-control study
16:45-17:00
Andrea Farioli¹, Kurt Straif², Giovanni Brandi³, Stefania Curti¹, Kristina Kjaerheim⁴, Jan Ivar Martinsen⁴, Pär Sparen⁵, Laufey Laufey Tryggvadottir^{6,7}, Elisabete Weiderpass⁵, Guido Biasco³, Francesco Saverio Violante¹, Stefano Mattioli¹, Eero Pukkala^{8,9}
¹*Department of Medical and Surgical Sciences (DIMEC), University of Bologna, Bologna, Italy*, ²*International Agency for Research on Cancer, Lyon, France*, ³*Department of Experimental, Diagnostic, and Specialty Medicine, S. Orsola-Malpighi University Hospital, Bologna, Italy*, ⁴*Department of Research, Cancer Registry of Norway, Institute of Population-Based Cancer Research, Oslo, Norway*, ⁵*Department of Medical Epidemiology and Biostatistics, Karolinska Institutet, Stockholm, Sweden*, ⁶*Icelandic Cancer Registry, Reykjavik, Iceland*, ⁷*Faculty of Medicine, University of Iceland, Reykjavik, Iceland*, ⁸*Faculty of Social Sciences, University of Tampere, Tampere, Finland*, ⁹*Finnish Cancer Registry, Institute for Statistical and Epidemiological Cancer Research, Helsinki, Finland*
- 0380 Mesothelioma mortality in Great Britain: an updated analysis of trends by geographical area and occupation 1981-2014
17:00-17:15
Kevin Shepherd¹, Damien McElvenny², Andrew Darnton¹
¹*Health and Safety Executive, Bootle, UK*, ²*Institute of Occupational Medicine, Edinburgh, UK*
- 0402 Does lung cancer incidence and mortality differ with the type of asbestos fibre? : Evidence from Western Australia
17:15-17:30
Nita Sodhi¹, Nick deKlerk^{1,2}, Peter Franklin¹, Fraser Brims^{1,3}, Susan Peters⁴, Nola Olsen¹, Bill Musk^{1,3}
¹*The University of Western Australia, Perth, WA, Australia*, ²*Telethon Kids Institute,*

Perth, WA, Australia, ³Sir Charles Gairdner Hospital, Perth, WA, Australia, ⁴Utrecht University, Utrecht, The Netherlands

- 0174 Mortality due to asbestosis in a cohort of former asbestos textile workers
17:30- Andrea Farioli¹, Francesco Saverio Violante¹, Carlo La Vecchia², Eva Negri³, Claudio
17:45 Pelucchi², Giovanna Spataro⁴, Paolo Boffetta⁵, Enrico Pira⁶
¹Department of Medical and Surgical Sciences (DIMEC), Bologna University, Bologna, Italy, ²Department of Clinical Sciences and Community Health, Milan University, Milan, Italy, ³Department of Biomedical and Clinical Sciences, Milan University, Milan, Italy, ⁴Department of Biomedical and Dental Sciences and Morphofunctional Imaging, Messina University, Messina, Italy, ⁵Tisch Cancer Institute, Icahn School of Medicine at Mount Sinai, New York, USA, ⁶Department of Public Health Sciences and Pediatrics, Turin University, Turin, Italy

Musculoskeletal, followed by discussion

16:30-18:00 **Moorfoot**

Chair: Karen Walker-Bone & Esther Maas

- 0315 Effect of multisite musculoskeletal pain on health related job loss: Findings from the
16:30- Health and Employment After Fifty (HEAF) study
16:45 Georgia Ntani, Stefania D'Angelo, Clare Harris, Karen Walker-Bone, David Coggon,
Keith Palmer
MRC Lifecourse Epidemiology Unit, University of Southampton, Southampton, UK
- 0105 To which extent is bias in self reported information on sedentary behavior and physical
16:45- activities influenced by age, gender, BMI and low-back pain among blue-collar
17:00 workers?
Nidhi Gupta¹, Marina Heiden², Svend Erik Mathiassen², Andreas Holtermann^{1,3}
¹National Research Centre for the Working Environment, Copenhagen, Denmark, ²Centre for Musculoskeletal Research, Department of Occupational and Public Health Sciences, University of Gävle, Gävle, Sweden, ³Institute of Sports Science and Clinical Biomechanics, University of Southern Denmark, Odense, Denmark
- 0248 Reversible median nerve impairment after three weeks of repetitive work
17:00- Sorosh Tabatabaeifar¹, Susanne Wulff Svendsen², Birger Johnsen³, Gert-Åke
17:15 Hansson^{4,5}, Anders Fuglsang-Frederiksen³, Poul Frost¹
¹Danish Ramazzini Centre, Department of Occupational Medicine, Aarhus University Hospital, Aarhus C, Denmark, ²Danish Ramazzini Centre, Department of Occupational Medicine, Regional Hospital West Jutland – University Research Clinic, Herning, Denmark, ³Department of Clinical Neurophysiology, Aarhus University Hospital, Aarhus C, Denmark, ⁴Occupational and Environmental Medicine, University and Regional Laboratories Region Scania, Lund, Sweden, ⁵Division of Occupational and Environmental Medicine, Lund University, Lund, Sweden
- 0292 International job-exposure matrix on physical workload: a second step about an
17:15- utopia?
17:30 Alexis Descatha¹, Johan H. Andersen², Skye Buckner-Petty³, Susanne W. Svendsen²,
Annett Dalbøge⁴, Tine S. Rubak⁵, Poul Frost⁴, Ann-Marie Dale³, Bradley A. Evanoff³
¹UVSQ Inserm AP-HP, Garches, France, ²University Research Clinic, Herning, Denmark, ³Washington University in St Louis, St-Louis, MO, USA, ⁴Aarhus University Hospital, Aarhus, Denmark, ⁵Bisbebjerg University Hospital, Slagelse, Denmark
- 0394 Are gender differences in disability duration for work-related musculoskeletal injuries
17:30- explained by health care utilization?
17:45 Mieke Koehoorn^{1,2}, Lillian Tamburic¹, Sheilah Hogg-Johnson², Katherine Lippe³,
Christopher McLeod^{1,2}
¹University of British Columbia, Vancouver, British Columbia, Canada, ²Institute for Work & Health, Toronto, Ontario, Canada, ³University of Ottawa, Ottawa, Ontario, Canada

Intervention Studies, followed by discussion

16:30-18:00 Tinto

Chair: Malcolm Sim & Sara De Matteis

- 0166 Mismatch between surveillance of risks and recorded injuries in construction:
16:30- Integration of ergonomics into a comprehensive safety program
16:45 Ann Marie Dale, Bradley Evanoff
Washington University, St. Louis, Missouri, USA
- 0461 Can a water.rest.shade intervention reduce the risk of chronic kidney disease among
16:45- sugarcane workers?
17:00 David Wegman¹, Jenny Apelqvist², Theo Bodin³, Matteo Bottai³, Ulf Ekström², Ramón García-Trabanino⁴, Jason Glaser⁵, Christer Hogstedt³, Kristina Jakobsson^{6,10}, Emmanuel Jarquín⁷, Rebekah Lucas⁸, Sandra Peraza⁹, Ilana Weiss⁵, Catharina Wesseling³
¹University of Massachusetts Lowell, Lowell, Massachusetts, USA, ²Department of Laboratory Medicine, Division of Clinical Chemistry and Pharmacology, Lund University, Lund, Sweden, ³Institute of Environmental Medicine, Karolinska Institutet, Stockholm, Sweden, ⁴Centro de Hemodiálisis, San Salvador, El Salvador, ⁵La Isla Network, Ada, Michigan, USA, ⁶Section of Occupational and Environmental Medicine, University of Gothenburg, Gothenburg, Sweden, ⁷Agencia para el Desarrollo y la Salud Agropecuaria (AGDYSA), San Salvador, El Salvador, ⁸School of Sport, Exercise & Rehabilitation Sciences, University of Birmingham, Birmingham, UK, ⁹Faculty of Chemistry and Pharmacy, University of El Salvador, Ciudad Universitaria, San Salvador, El Salvador, ¹⁰Division of Occupational and Environmental Medicine, Institute of Laboratory Medicine, Lund University, Lund, Sweden
- 0422 A total workplace safety and health project for security officers in a Singapore
17:00- university - from needs assessment to interventions and evaluation
17:15 Jeff Yi-Fu Hwang, Sin Eng Chia, Wagner Norbert, Vivian Ng, Kah Wai Leong, Pang Tong Tan
National University of Singapore, Singapore, Singapore
- 0021 Exercise protects against low back pain: Systematic review and meta-analysis of
17:15- controlled trials
17:30 Rahman Shir¹, David Coggon^{2,3}, Kobra Falah-Hassani⁴
¹Finnish Institute of Occupational Health, Helsinki, Finland, ²Arthritis Research UK/MRC Centre for Musculoskeletal Health and Work, University of Southampton, Southampton, UK, ³MRC Lifecourse Epidemiology Unit, University of Southampton, Southampton, UK, ⁴Western University, London, Canada
- 0285 Assessing the impact of a group randomized controlled intervention study in
17:30- supermarket bakeries with a high baker's allergy and asthma burden
17:45 Roslynn Baatjies^{1,2}, Mohamed Jeebhay¹
¹Division of Occupational Medicine and Centre for Environmental & Occupational Health Research, School of Public Health and Family Medicine, University of Cape Town, Cape Town, South Africa, ²Department of Environmental and Occupational Studies, Faculty of Applied Sciences, Cape Peninsula University of Technology, Cape Town, South Africa

Cardiovascular & dusts/fumes, followed by discussion

16:30-18:00 Kilsyth

Chair: Noah Seixas & Zara Stokholm

- 0305 Occupational exposure to respirable quartz and radon and the risk of acute myocardial
16:30- infarction
16:45 Johannes Gellissen, Dagmar Pattloch, Norbert Kersten, Matthias Möhner
Federal Institute for Occupational Safety and Health, Berlin, Germany
- 0344 Ischemic heart disease mortality, diesel exhaust, and respirable particulate matter
16:45- exposure in the Diesel Exhaust in Miners Study (DEMS)
17:00 Sadie Costello¹, Michael Attfield², Jay Lubin³, Andreas Neophytou¹, Aaron Blair³, Daniel Brown¹, Patricia Stewart², Roel Vermeulen^{3,4}, Ellen Eisen¹, Debra Silverman³

¹Division of Environmental Health Sciences, School of Public Health, University of California, Berkeley, Berkeley, CA, USA, ²Division of Respiratory Disease Studies, National Institute for Occupational Safety and Health, Morgantown, WV, USA, ³Division of Cancer Epidemiology and Genetics, National Cancer Institute, Bethesda, MD, USA, ⁴Institute for Risk Assessment Sciences, Utrecht University, Utrecht, The Netherlands

0354 Incidence of cardiovascular disease among Danish firefighters - a cohort study.
17:00- Julie Elbæk Pedersen¹, Kajsa Petersen², Niels Ebbehøj¹, Jens Peter Bonde¹, Johnni
17:15 Hansen²

¹Department of Occupational and Environmental Medicine, Bispebjerg University Hospital, Copenhagen, Denmark, ²The Danish Cancer Society Research Center, Copenhagen, Denmark

0313 Mortality among Norwegian smelter industry workers - a 55 year follow-up.
17:15- Merete D Bugge, Bente Ulvestad, Balazs Berlinger, Dag G Ellingsen
17:30 STAMI, National Institute of Occupational Health, Oslo, Norway

0360 Occupational exposure to respirable silica dust in men and women and risk for acute
17:30- myocardial infarction

17:45 Pernilla Wiebert^{1,2}, Nils Plato¹, Maria Feychting¹, Bengt Sjögren¹, Annika
Gustavsson^{1,2}, Tomas Andersson^{1,2}, Per Gustavsson¹

¹Institute of Environmental Medicine, Karolinska Institutet, Stockholm, Sweden,
²Centre for Occupational and Environmental Medicine, Stockholm County Council, Stockholm, Sweden

A Night at the Museum - Gala Dinner

19:30-0:00 **National Museum of Scotland,
Chambers Street**

Thursday 31st August 2017

Early Career Researchers - Breakfast talk - How to get your paper published

08:00-09:00 Moorfoot

Malcolm Sim, Lesley Rushton, Noah Seixas & Paul Grime

Plenary 4

09:00-09:45 Pentland Chair: Roel Vermeulen & Neela Guha

0501 LIFETIME ACHIEVEMENT AWARD - INVITED KEYNOTE: Why have we failed to prevent back pain in working populations?

09:00-09:45 David Coggon

MRC Lifecourse Epidemiology Unit, University of Southampton, Southampton, UK

EPICOH Discussion - Where to from here for occupational epidemiology research?

09:45-10:45 Pentland

Chair: Neil Pearce & Damien McElvenny

Panel: David Kriebel, Lin Fritschi, David Rees, Yue-Leon Guo, Sara de Matteis, Marie-Elise Parent

Coffee

10:45-11:15 Cromdale

Systematic Reviews & Meta-analyses, followed by discussion

11:15-12:45 Pentland Chair: Malcolm Sim & Jean-Francois Sauve

0370 Systematic review and meta-analysis of occupational exposure to styrene and lung cancer

11:15-11:30 Nilmara de Oliveira Alves^{1,2}, Dana Loomis¹, Neela Guha¹

¹IARC, Lyon, France, ²University of São Paulo, São Paulo, Brazil

0150 Is a possible relationship between occupational noise exposure and vestibular schwannoma (acoustic neuroma) causal or due to bias? A systematic review and meta-analysis.

11:30-11:45 Ingrid Sivesind Mehlum, Håkon A. Johannessen, Karl-Christian Nordby, Marit Skogstad, Tore Tynes, Arve Lie

National Institute of Occupational Health, Oslo, Norway

0359 Systematic review of occupational chemical exposures and cardiovascular diseases

11:45-12:00 Christer Hogstedt¹, Maria Albin¹, Charlotte Hall², Bengt Sjögren¹, Töres Theorell^{1,3}

¹Karolinska Institutet, Stockholm, Sweden, ²SBU, Stockholm, Sweden, ³Stockholm University, Stockholm, Sweden

0341 Welding fumes and lung cancer: A meta-analysis by IARC working group

12:00-12:15 Manoj Kumar Honaryar^{1,2}, Ruth M Lunn³, Danièle Luce⁴, Wolfgang Ahrens⁵, Leslie Stayner⁶, Andrea 't Mannetje⁷, Johnni Hansen⁸, Dana Loomis¹, Nadia Vilahur¹, Neela Guha¹

¹International Agency for Research on Cancer (IARC), Lyon, France, ²École des hautes études en santé publique (EHESP), Paris/Rennes, France, ³National Institute of Environmental Health Sciences (NIEHS), New York, USA, ⁴National Institute of Health and Medical Research (INSERM), Guadeloupe, French Southern Territories, ⁵University of Bremen, Bremen, Germany, ⁶University of Illinois, Chicago, USA, ⁷Massey University, Palmerston North, New Zealand, ⁸Danish Cancer Society,

Copenhagen, Denmark

0202 Workplace-based interventions to increase chances of sooner and sustained return to
12:15- work in workers with common mental health disorders: a systematic review of the
12:30 literature.

*Doroła Juszczyk, Shotaro Doki, Paul Grime, Vaughan Parsons, Ira Madan
Guy's and St Thomas' NHS Foundation Trust, London, UK*

Shift Work & Moderating Factors, followed by discussion

11:15-12:45 Sidlaw Chair: Thomas Erren & Alireza Dehdashti

0125 Shift work, chronotype and the risk of cardiometabolic disturbances

11:15- *Gerben Hulsegge^{1,2}, Susan Picavet², Allard van der Beek¹, Monique Verschuren^{2,3},*
11:30 *Jos Twisk¹, Karin Proper¹*

*¹VU Medical Center and Amsterdam Public Health Research Institute, Amsterdam,
The Netherlands, ²National Institute for Public Health and the Environment, Bilthoven,
The Netherlands, ³University Medical Center Utrecht, Utrecht, The Netherlands*

0086 Shiftwork, circadian disruption and breast cancer: A first application of the

11:30- chronobiological theory and practical challenges within the Australian BCEE study

11:45 *Lin Fritschi¹, Valèrie Groß², Ursula Wild², Jane Heyworth³, Deborah Glass⁴, Thomas
Erren²*

*¹Curtin University, Perth, Australia, ²University of Cologne, Cologne, Germany,
³University of Western Australia, Perth, Australia, ⁴Monash University, Melbourne,
Australia*

0111 The association between work schedule control and nurses' burnout in Taiwan

11:45- *Ting-Ti Lin¹, Judith Shu-Chu Shiao², Yue-Liang Guo^{3,4}, Yi-Chuan Chen², Yu-Ju Li²,*
12:00 *Jiune-Jye Ho⁵*

*¹College of Nursing, University of Illinois at Chicago, Chicago, USA, ²School of
Nursing, College of Medicine, National Taiwan University, Taipei City, Taiwan,
³Department of Environmental and Occupational Medicine, National Taiwan
University (NTU) and NTU Hospital, Taipei City, Taiwan, ⁴Institute of Occupational
Medicine and Industrial Hygiene, School of Public Health, National Taiwan University,
Taipei City, Taiwan, ⁵Institute of Labor, Occupational Safety and Health, Ministry of
Labor, New Taipei City, Taiwan*

0261 The effects of night work and light exposure on salivary melatonin concentration
12:00- during work days and days off

12:15 *Stine Daugaard¹, Anne Helene Garde^{2,3}, Jens Peter Bonde^{3,4}, Jens Christoffersen⁵,*
*Aase Marie Hansen³, Jakob Markvar⁶, Vivi Schlünssen^{2,7}, Debra Skene⁸, Helene
Tilma Vistisen¹, Henrik Kolstad¹*

*¹Department of Occupational Medicine, Danish Ramazzini Centre, Aarhus University
Hospital, Aarhus, Denmark, ²National Research Centre for the Working Environment,
Copenhagen, Denmark, ³Institute of Public Health, Copenhagen University,
Copenhagen, Denmark, ⁴Department of Occupational Medicine, Bispebjerg Hospital,
Copenhagen, Denmark, ⁵Stakeholder Communications & Sustainability, VELUX,
Hørsholm, Denmark, ⁶Department of Energy Performance, Indoor Environment and
Sustainability of Buildings, Danish Building Research Institute, Aalborg University,
Copenhagen, Denmark, ⁷Department of Public Health, Aarhus University, Aarhus,
Denmark, ⁸Chronobiology, Faculty of Health and Medical Sciences, University of
Surrey, Guildford, UK*

0161 The role of physical activity in the association between shift work and body mass
12:15- index.

12:30 *Johan Werkhoven¹, Bette Loef^{1,2}, Karin Proper¹*

*¹National Institute for Public Health and the Environment, Bilthoven, The Netherlands,
²Department of Public and Occupational Health, VU University Medical Center
Amsterdam, Amsterdam, The Netherlands*

Cancer 2, followed by discussion

11:15-12:45 **Fintry** Chair: Frank de Vocht & Susan Peters

- 0286 Occupational exposure to gasoline and diesel exhausts and the risk of kidney cancer
11:15- in Canadian men
11:30 Cheryl Peters¹, Marie-Elise Parent², Shelley Harris^{3,4}, Lidija Latifovic^{3,4}, Linda Kachuri^{3,4}, Laura Bogaert⁴, Canadian Cancer Registries Group¹, Paul Villeneuve¹
¹Carleton University, Ottawa, Canada, ²Institut Armand-Frappier, Institut national de la recherche scientifique, Montreal, Canada, ³Cancer Care Ontario, Toronto, Canada, ⁴University of Toronto, Toronto, Canada
- 0153 Risk of bladder cancer in a cohort of chemical workers
11:30- Dirk Taeger¹, Beate Pesch¹, Bierfreund Kay-Gerald², Christoph Oberlinner³, Gabriele Leng², Stenzl Arnulf⁴, Matthias Kluckert⁵, Thomas Brüning¹
11:45 ¹Institute for Prevention and Occupational Medicine of the German Social Accident Insurance, Institute of the Ruhr-Universität Bochum (IPA), Bochum, Germany, ²Department of Health Protection and Occupational Safety, Currenta GmbH & Co. OHG, Leverkusen, Germany, ³Occupational Medicine and Health Protection, BASF SE, Ludwigshafen, Germany, ⁴Institute of Urology, Eberhard Karls University, Tübingen, Germany, ⁵German Social Accident Insurance's Institution for the Raw Materials and Chemical Industry (BG RCI), Heidelberg, Germany
- 0361 A 49-year follow-up of mortality in the British rubber industry
11:45- Will Mueller¹, Damien McElvenny¹, Peter Ritchie¹, John Cherrie^{1,2}, Mira Hidajat³,
12:00 Raymond Agius⁴, Andrew Darnton⁵, Frank de Vocht³
¹Institute of Occupational Medicine, Edinburgh, UK, ²Heriot Watt University, Edinburgh, UK, ³University of Bristol, Bristol, UK, ⁴University of Manchester, Manchester, UK, ⁵Health and Safety Executive, Bootle, UK
- 0255 Lifetime cancer risk in the British rubber industry: a retrospective cohort with 49 year
12:00- follow-up
12:15 Mira Hidajat¹, Damien McElvenny², Will Mueller², Peter Ritchie², John Cherrie^{2,3},
Andrew Darnton⁴, Raymond Agius⁵, Frank de Vocht¹
¹University of Bristol, Bristol, UK, ²Institute of Occupational Medicine, Edinburgh, UK, ³Heriot Watt University, Edinburgh, UK, ⁴Health and Safety Executive, Bootle, UK, ⁵University of Manchester, Manchester, UK
- 0162 Mortality among autoworkers manufacturing electronics in Alabama, U.S.A.
12:15- Nathan DeBono, David Richardson
12:30 University of North Carolina, Chapel Hill, North Carolina, USA

Welding & Metals, followed by discussion

11:15-12:45 **Moorfoot** Chair: Ann Olsson & Caradee Wright

- 0329 Occupational exposure to metals and welding fumes, and risk of glioma in the
11:15- INTEROCC study
11:30 Marie-Elise Parent^{1,4}, Michelle C Turner^{2,3}, Jérôme Lavoué^{4,6}, Hugues Richard¹, Jordi Figuerola^{2,3}, Laurel Kincl⁵, Lesley Richardson⁶, Geza Benke⁷, Maria Blettner⁸, Sarah Fleming⁹, Martine Hours¹⁰, Daniel Krewski¹¹, David McLean¹², Siegal Sadetzki^{13,14}, Klaus Schläfer¹⁵, Brigitte Schlehofer¹⁵, Joachim Schüz¹⁶, Jack Siemiatycki^{4,6}, Martie van Tongeren^{17,18}
¹INRS-Institut Armand-Frappier, Laval, Quebec, Canada, ²Barcelona Institute for Global Health (ISGlobal), Barcelona, Spain, ³Universitat Pompeu Fabra (UPF), Barcelona, Spain, ⁴University of Montreal, Montreal, Quebec, Canada, ⁵Oregon State University, Corvallis, Oregon, USA, ⁶University of Montreal Hospital Research Centre, Montreal, Quebec, Canada, ⁷Monash University, Melbourne, Australia, ⁸Johannes-Gutenberg University Mainz, Mainz, Germany, ⁹University of Leeds, Leeds, UK, ¹⁰Université de Lyon, Lyon, France, ¹¹University of Ottawa, Ottawa, Ontario, Canada, ¹²Massey University, Wellington, New Zealand, ¹³Chaim Sheba Medical Center, Tel Aviv, Israel, ¹⁴Tel-Aviv University, Tel Aviv, Israel, ¹⁵German Cancer Research Center (DKFZ), Heidelberg, Germany, ¹⁶International Agency for Research on Cancer, Lyon,

France, ¹⁷Institute of Occupational Medicine, Edinburgh, UK, ¹⁸University of Manchester, Manchester, UK

- 0387
11:30-
11:45
Welding and the risk of head and neck cancer: results from the ICARE study
Christine Barul¹, Mireille Matraf², Isabelle Stücker², Danièle Luce¹
¹INSERM U1085-IRSET, Pointe-à-Pitre, France, ²INSERM U1018 - CESP, Villejuif, France
- 0446
11:45-
12:00
Risk of cancer in a prospective cohort of Danish metal welders
Johanni Hansen
Danish Cancer Society Research Center, Copenhagen, Denmark
- 0473
12:00-
12:15
Sinonasal cancers and occupational exposures, a population-based case-control study
Carolina Mensi¹, Michele Carugno², Angela Cecilia Pesator^{2,1}, Barbara Dallari¹, Luciano Riboldi¹, Consonni Dario¹
¹Department of Preventive Medicine, Fondazione IRCCS Ca' Granda Ospedale Maggiore Policlinico, Milan, Italy, ²Department of Clinical Sciences and Community Health, Università degli Studi di Milano, Milan, Italy
- 0295
12:15-
12:30
Urinary cadmium concentration and mammographic volumetric density - preliminary results
Beata Peplonska, Beata Janasik, Pawel Kaluzny, Paulina Nowak
Nofer Institute of Occupational Medicine, Lodz, Poland

Injuries & Violence

11:15-12:45 Tinto

Chair: Peter Smith & Mehrzan Ebrahemzadih

- 0382
11:15-
11:30
Increasing male/female inequalities in rates of workplace violence in Ontario between 2002 and 2014: A comparison of two data sources.
Peter Smith^{1,2}, Cynthia Chen¹
¹Institute for Work & Health, Toronto, Ontario, Canada, ²Monash University, Melbourne, Victoria, Australia
- 0009
11:30-
11:45
Ergonomic hazards and injuries among small scale miners in the Philippines
Jinky Leilanie Lu
National Institutes of Health with the Institute of Health Policy and Development Studies, University of the Philippines Manila, Manila, The Philippines
- 0106
11:45-
12:00
Association between high temperature and work-related injuries in Guangzhou, China
Rongrong Sheng, Changchang Li, Cunrui Huang
School of Public Health, Sun Yat-sen University, Guangzhou, China
- 0085
12:00-
12:15
Injury reporting, employer lodgement and compensation payment delays and duration of wage replacement in injured workers.
Fiona Cocker¹, Peter Smith^{2,3}, Helen Kelsall¹, Malcolm Sim¹
¹Monash University, Melbourne, Victoria, Australia, ²Institute for Work and Health, Toronto, Canada, ³Dalla Lana School of Public Health, University of Toronto, Toronto, Canada
- 0423
12:15-
12:30
Geospatial trends in occupational injury and workers' compensation utilization
Katherine Schofield, Laure Charleux
University of Minnesota Duluth, Duluth, MN, USA
- 0068
12:30-
12:45
Using workers compensation data to estimate injury patterns in inter-provincial workers
Nicola Cherry, Whitney Haynes
University of Alberta, Edmonton, Alberta, Canada

Pesticide & Farming, followed by discussion

11:15-12:45 Kilsyth

Chair: Laura Beane Freeman & John Cherrie

- 0115
11:15-
Gender and proportionate mortality by acute occupational pesticides poisoning among agricultural workers in Brazil

- 11:30 *Maria Moura-Luna, Vilma Santana, Yukari Mise*
Federal University of Bahia, Salvador, bahia, Brazil
- 0189 Work-related snake bites injuries among farmers in Brazil
11:30- *Yukari Figueroa Mise, Tatiane Costa Meira, Maria Claudia Peres Moura Luna, Vilma*
11:45 *Sousa Santana*
Universidade Federal da Bahia, Salvador, Bahia, Brazil
- 0320 Indirect parent-mediated pathways of child exposure to 2,4-d and chlorpyrifos in farm
11:45- families
12:00 *Ashley Hernandez¹, Timothy Church¹, Jack Mandel², Bruce Alexander¹*
¹University of Minnesota School of Public Health, Minneapolis, MN, USA, ²Exponent
Inc., Oakland, CA, USA
- 0374 Multi-criteria decision analysis (MCDA) comparing agricultural production methods:
12:00- Protocol for analysing British Columbia (BC) blueberries and Ecuador bananas
12:15 *Rami El-Sayegh, Jerry Spiegel, Craig Mitton*
University of British Columbia, Vancouver, Canada
- 0441 Exposure to dinitroanilines and risk of lung cancer (LC) by subtypes: results from the
12:15- AGRICAN cohort
12:30 *Mathilde Boulanger^{1,2}, Séverine Tual^{1,4}, Clémentine Lemarchand^{1,4}, . Francim-Agrican*
group⁷, Isabelle Baldi^{5,6}, Bénédicte Clin^{1,2}, Pierre Lebailly^{1,2}
¹INSERM U1086, Caen, France, ²Université de Caen Normandie, Caen, France, ³Service de Pathologie professionnelle, CHU de Caen, Caen, France, ⁴Centre
François Baclesse, Caen, France, ⁵ISPED, Laboratoire Santé Travail Environnement,
Université de Bordeaux, Bordeaux, France, ⁶INSERM, ISPED, Centre INSERM U897
– Epidémiologie- Biostatistique, Bordeaux, France, ⁷Francim-Agrican group, ., France

Lunch

12:45-13:45 **Cromdale**

Poster session 3

12:45-14:15 **Cromdale**

- 0010 Epidemiology of road crash and accident fatalities among bus and truck drivers:
Vulnerable occupational group
Sophia Francesca Lu
College of Arts and Sciences, University of the Philippines Manila, Manila, The
Philippines
- 0011 Knowledge and risk perception of lassa fever in primary health care workers in a
semi-urban district, northwestern Nigeria
Aisha Abubakar^{1,2}, Salihu Mamman¹, Abdulrazaq Abdullahi Gobir¹, Ahmad Ayuba
Umar¹, Muhammad Sani Ibrahim¹, Suleiman Saidu Bashir¹
¹Ahmadu Bello University, Zaria, Kaduna state, Nigeria, ²Global Partnership Initiated
Biosecurity Academia for Controlling Health Threats (GIBACHT), Hamburg, Germany
- 0016 Association between PM 2.5 exposure and lipid peroxidation was confirm by repeated
measurements longitudinal study with a proper interaction term
Wei-Te Wu, Wei-Jin Li, Hui-Yi Liao, Saou-Hsing Liou
National Health Research Institutes, Miaoli county, Taiwan
- 0023 A prospective cohort study of the impact of return-to-work Coordinators in getting
injured workers back on the job
Tyler Lane^{1,2}, Rebecca Lilley³, Sheilah Hogg-Johnson^{4,5}, Tony LaMontagne⁶,
Malcolm Sim¹, Peter Smith⁴
¹School of Public Health and Preventive Medicine, Melbourne, Victoria, Australia,
²Institute for Safety, Compensation and Recovery Research, Monash University,
Melbourne, Victoria, Australia, ³Dunedin School of Medicine, University of Otago,
Dunedin, New Zealand, ⁴Institute for Work and Health, Toronto, Ontario, Canada,
⁵Dalla Lana School of Public Health, University of Toronto, Toronto, Ontario, Canada,

⁶Centre for Population Health Research, Deakin University, Melbourne, Victoria, Australia

- 0028 Job stress and glycemic levels: The role of gender and educational level in the Brazilian Longitudinal Study of Adult Health (ELSA-Brasil).
Raíla Santos¹, Fabiola Eto¹, Rosane Griep², Enirtes Melo¹
¹National School of Public Health - Fundacao Oswaldo Cruz, Rio de Janeiro - RJ, Brazil, ²Oswaldo Cruz Institute - Oswaldo Cruz Foundation, Rio de Janeiro - RJ, Brazil
- 0029 Trend study of metabolic syndrome in a working population from a developing nation to control prevalence of non-communicable diseases
Rajat Kumar Saha
Hero MotoCorp Ltd, Dharuhera, Haryana, India
- 0033 A survey of child laborers among Syrian refugees in Agrarian Lebanon
Rima Habib
American University of Beirut, Beirut, Lebanon
- 0045 Reporting Bias in observational epidemiologic research on phthalates
Gerard Swaen, Miriam Urlings, Maurice Zeegers
Maastricht University, Maastricht, The Netherlands
- 0048 The two-decade contribution of occupational medicine training in Thailand — experience from the foundation toward the future.
Jate Ratanachina¹, Pornchai Sithisarankul²
¹Department of Preventive and Social Medicine, King Chulalongkorn Memorial Hospital, The Thai Red Cross Society, Bangkok, Thailand, ²Department of Preventive and Social Medicine, Faculty of Medicine, Chulalongkorn University, Bangkok, Thailand
- 0055 The health risks of occupational exposure to n-hexane in printing industry
He Jia-Xi
Shenzhen Center for Occupational Disease Prevention and Treatment, Shenzhen, Guangdong, China
- 0056 Investigation on occupational exposure to non-ionizing radiation in physiotherapy workplaces
Yang Jing, He Jia-Xi
Shenzhen Center for Occupational Disease Prevention and Treatment, Shenzhen, Guangdong, China
- 0063 A literature review of workplace interventions with respect to risk management measures and their impact on occupational exposure levels to hazardous substances
Susann Wothe
Federal Institute for Occupational Safety and Health (BAuA), Unit 4.1 Exposure Scenarios, Dortmund, North Rhine-Westphalia, Germany
- 0072 Oil mist, from exposure determinants to early effect markers: an integrative study design
Sébastien Hulo³, Eve Bourgard¹, Jean-Jacques Sauvain², Valérie Demange¹, Nancy Hopf², Yves Guichard¹, Fanny Jeandel¹, Jean-Louis Edmée³, Nathalie Chérot³, Pascal Wild^{1,2}
¹INRS, Vandoeuvre, France, ²IST, Lausanne, Switzerland, ³CHU Lille, EA 4483 - IMPECS – IMPact de l'Environnement Chimique sur la Santé humaine, Lille, France
- 0076 Investigation of occupational health hazards among grass trimmer operators
Shih-Yi Lu¹, Yen-Hui Lin¹, Kuei-Yi Lin²
¹Chung Shan Medical University, Taichung City, Taiwan, ²Institute of Labor, Occupational Safety and Health, New Taipei City, Taiwan
- 0077 Should occupational health patients receive the medical records concerning their medical visit?
Shlomo Moshe^{1,2}, Nasrin Kabaha², Ayala Krakov^{1,2}
¹Maccabi Healthcare Services, Holon, Israel, ²Tel Aviv University, The Division of Environmental and Occupational Medicine, Israel

- 0083 Market variability- safety fluctuations. Mineral prices and OHS among Bolivian cooperative miners.
Mei Trueba
University of Sussex, Brighton, UK
- 0093 Work stress measures are associated with health and physical function around the age of retirement: findings from the Hertfordshire cohort study
Martin Stevens, Holly Syddall, Catherine Linaker, Stefania D'Angelo, Karen Walker-Bone
MRC Lifecourse Epidemiology Unit, University of Southampton, Hampshire, UK
- 0096 Body mass index (BMI), chronic musculoskeletal pain and adverse employment outcomes in older workers: the Health and Employment After Fifty (HEAF) Study.
Stefania D'Angelo^{1,2}, Keith Palmer^{1,2}, Karen Walker-Bone^{1,2}, Clare Harris^{1,2}, David Coggon^{1,2}, Cathy Linaker^{1,2}
¹*MRC Lifecourse Epidemiology Unit University Of Southampton, Southampton, UK*,
²*Arthritis Research UK/MRC Centre for Musculoskeletal Health and Work, Southampton, UK*
- 0098 Evaluation of sleep problems and sleep hygiene for shift workers in Korean steel manufacturing company
Ji-Won Lee¹, Hyoungh-Ryoul Kim¹, Taewon Jang², Hye-Eun Lee³, Junsu Byun¹, Seyoung Lee¹
¹*Department of Occupational and Environmental Medicine, College of Medicine, the Catholic University of Korea, Seoul, Republic of Korea*, ²*Department of Occupational and Environmental Medicine, Hanyang University Guri Hospital, Guri, Republic of Korea*, ³*Department of Occupational and Environmental Medicine, College of Medicine, Kyung Hee University, Seoul, Republic of Korea*
- 0120 Predicting long-term sickness absence and supporting return-to work processes, a quantitative research
Kaat Goorts¹, Christiane Duchesnes³, Sofie Vandebroeck^{1,2}, Dorina Rusu³, Marc Du Bois¹, Philippe Mairiaux³, Lode Godderis^{1,2}
¹*KU LEUVEN, Leuven, Belgium*, ²*IDEWE, Leuven, Belgium*, ³*Université Liege, Liege, Belgium*
- 0128 The economic burden of occupational heat illnesses in Adelaide, South Australia, 2001-2015
Jianjun Xiang, Alana Hansen, Dino Pisaniello, Peng Bi
School of Public Health, The University of Adelaide, Adelaide, South Australia, Australia
- 0144 Assessing and addressing non-response at follow-up in the GuLF STUDY
Jean Strelitz¹, Alex Keil¹, David Richardson¹, Marilie Gammon¹, Richard Kwok², Dale Sandler², Lawrence Engel^{1,2}
¹*University of North Carolina at Chapel Hill, Chapel Hill, NC, USA*, ²*National Institute of Environmental Health Sciences, Research Triangle Park, NC, USA*
- 0151 Systematic review of workplace interventions for reducing occupational sitting
Lotte Röder, Eva Backé, Ute Latza
b a u a : Federal Institute for Occupational Safety and Health, Berlin, Germany
- 0194 Prevalence of olfactory dysfunction according to occupational chemical exposure by manufacturing industries
Gayoung Lim¹, Soojin Park¹, Sujin Lee², Tae-Won Jang², Inah Kim^{1,2}, Seokhyun Cho³, Jaechul Song^{1,2}, Eunmi Kim¹
¹*Graduate School of Public Health, Hanyang University, Seoul, Republic of Korea*,
²*Occupational and Environmental Medicine, Hanyang University, Seoul, Republic of Korea*, ³*Otorhinolaryngology-Head and Neck Surgery, Hanyang University, Seoul, Republic of Korea*
- 0214 Transitions of Blood Lead Levels of Preschool Children across Countries of Various Extent of Development
Yaw-Huei Hwang, Pei-Wen Lin
Institute of Occupational Medicine and Industrial Hygiene, College of Public Health,

National Taiwan University, Taipei, Taiwan

- 0217 Mesothelioma and cancer of the pleura deaths - recovering missing cases from hospital records
Vilma Santana¹, Eduardo Algrant², Felipe Campos¹, Franciana Cavalcante¹, Ricardo Lorenz², Rosemairy Inamine³, William Souza⁴, Simone Santos³
¹Federal University of Bahia, Salvador, Bahia, Brazil, ²Fundacentro, São Paulo, SP, Brazil, ³National Health System, São Paulo, SP, Brazil, ⁴Public Ministry, Goiania, GO, Brazil
- 0223 Occupational heat exposures in industries and renal health – Findings from India
Vidhya Venugopal, Latha Kamalkannan, Rekha Shanmugam, Manikandan Krishnamoorthy, Jeremiah Chinnadurai, Kumaravel Perumal
Sri Ramachandra University, Porur, Chennai, Tamilnadu, India
- 0226 Affection in the auditory brainstem pathway associated with occupational, low-level exposure to ethylbenzene
Octavio Jiménez-Garza¹, Sergio Márquez-Gamiño¹, Liliana Ruiz-García¹, Giovanni Battista Bartolucci², Mariella Carrieri²
¹Universidad de Guanajuato Campus León, Health Sciences Division, León, Guanajuato, Mexico, ²University of Padova, Department of Cardiology, Thoracic and Vascular Science, Padova, Veneto, Italy
- 0230 The relationship between shift work and metabolic syndrome among electronics industry workers
Sae-Young Lee¹, Gyeongho Lee¹, Sojung Lee¹, Hyunjoo Kim², Chung Won Kang², Jungyeon Hong³, Mo-Yeol Kang⁴
¹Safety health environment R&D team, SK hynix, Icheon-si Gyeonggi-do, Republic of Korea, ²Department of Occupational and Environmental Medicine, Ewha Womens University Mok-dong Hospital, Seoul, Republic of Korea, ³Hanshin Medipia, Seoul, Republic of Korea, ⁴Seoul St. Mary's Hospital, Seoul, Republic of Korea
- 0245 Big data and occupational health vigilance: use of French medico-administrative databases for hypothesis generation regarding occupational risks in agriculture
Charlotte Maugard^{1,2}, Delphine Bosson-Rieurt^{1,2}, Olivier François², Vincent Bonneterre^{1,3}
¹Grenoble-Alpes University (UGA)/ TIMC-IMAG Laboratory (UMR CNRS 5525) / EPSP Team (Environment and Health Prediction of Populations), Grenoble, France, ²Grenoble-Alpes University (UGA) / TIMC-IMAG Laboratory (UMR CNRS 5525) / BCM Team (Computational and Mathematical Biology), Grenoble, France, ³Modernet Network, -, France
- 0260 Visualising the unemployment-to-employment transitions to explore factors influencing return to work in the Work Programme: results from the Supporting Older People into Employment (SOPIE) cohort
Judith Brown¹, Ronald McQuaid², Srinivasa Vittal Katikireddi³, Alastair Leyland³, John Frank⁴, Oarabile R Molaodi³, Ewan B Macdonald¹
¹Healthy Working Lives Group, Institute of Health and Wellbeing, University of Glasgow, Glasgow, UK, ²Stirling Management School, University of Stirling, Stirling, UK, ³MRC/CSO Social and Public Health Sciences Unit, Institute of Health and Wellbeing, University of Glasgow, Glasgow, UK, ⁴Scottish Collaboration for Public Health Research and Policy, University of Edinburgh, Edinburgh, UK
- 0266 Designing of new low cost simulator for training ergonomic laparoscopic skills
Riin Raimla, Eda Merisalu, Märt Reinvee
Estonian University of Life Sciences, Tartu, Tartu County, Estonia
- 0270 Mortality from lung cancer in occupations with exposure to asbestos among men in England and Wales (1979-2010)
E Clare Harris¹, Stefania D'Angelo¹, Keith T Palmer¹, Vanessa Cox¹, Andrew Darnton², David Coggon¹
¹MRC Lifecourse Epidemiology Unit, University of Southampton, Southampton, UK, ²Statistics and Epidemiology Unit, Health and Safety Executive, Bootle, UK

- 0273 Teachers' well-being at work and quality of life: any differences according to years of experience?
*Laurent Zavidovique, Fabien Gilbert, Marie-Noël Vercambre
Fondation d'entreprise MGEN pour la santé publique, Paris, France*
- 0276 Predictors of return to work 12 months after solid organ transplantation: results from a cohort study in Switzerland
*Laure Vieux¹, Amira Simcox¹, Zakia Mediouni^{1,2}, Pascal Wild¹, Michael Koller³, Regina Studer¹, Brigitta Danuser¹
¹Institut universitaire romand de Santé au Travail, Epalinges - Lausanne, Vaud, Switzerland, ²Inserm, population-based epidemiological cohorts unit, UMS 011, Villejuif, Ile-de-France, France, ³Basel Institute for Clinical Epidemiology and Biostatistics, University Hospital Basel, Basel, Basel, Switzerland*
- 0287 Return to work and quality of life after occupational injury
*Po-Ching Chu^{1,2}, Chien-Hsieh Chiang⁴, Yue Leon Guo^{1,3}, Pau-Chung Chen¹
¹National Taiwan University College of Medicine, Taipei, Taiwan, ²National Taiwan University Hospital, Hsin-Chu Branch, Hsin-Chu, Taiwan, ³National Institute of Environmental Health Sciences, National Health Research Institutes, Zhunan, Taiwan, ⁴National Taiwan University Hospital Yun-Lin Branch, Yun-Lin, Taiwan*
- 0293 Current research priorities for UK occupational physicians and occupational health researchers - a modified Delphi study.
*Drushca Laloo¹, Evangelia Demou², Julia Smedley³, Ira Madan⁴, Kaveh Asanati⁵, Ewan. B. Macdonald¹
¹Healthy Working Lives Group, Institute of Health and Wellbeing, College of Medical, Veterinary and Life Sciences, University of Glasgow, G12 8RZ, Glasgow, UK, ²MRC/CSO Social and Public Health Sciences Unit, Institute of Health and Wellbeing, College of Medical, Veterinary and Life Sciences, University of Glasgow, G2 3QB, Glasgow, UK, ³Occupational Health Department, University Hospital Southampton NHS Foundation Trust, Residence Block 4, MP100, Southampton General Hospital, Tremona Rd, SO16 3YD, * on behalf of the FOM, Southampton, UK, ⁴Guy's & St Thomas' NHS Foundation Trust and King's College London. Occupational Health Department, The Education Centre, St Thomas' Hospital, Westminster Bridge Road, SE1 7EH, * on behalf of the FOM, London, UK, ⁵Imperial College London, National Heart & Lung Institute, Respiratory Epidemiology, Occupational Medicine and Public Health, Emmanuel Kaye Building, 1b Manresa Road, SW3 6LR, London, UK*
- 0308 A Brazilian look at occupational health and safety in the USA: observation and learning with COSH groups
*Sandra Cavalcante¹, Rodolfo Vilela¹, Carlos Siqueira²
¹School of Public Health - University of São Paulo, São Paulo/SP, Brazil, ²College of Public and Community Service - University of Massachusetts, Boston/MA, USA*
- 0312 Impact of psoriasis in the workplace: Results of the French survey PsoPRO (Psoriasis & Professional life)
*Yves Roquelaure¹, Herve Bachelez², Pascal Claudepierre³, Rouverte Aubert⁴, Pierre Levy⁵
¹CHU Angers, Angers, France, ²AP-HP Hôpital Saint-Louis, Sorbonne Paris Cité Université Paris Diderot, INSERM UMR1163, Institut Imagine, Paris, France, ³CHU Henri Mondor Créteil, Creteil, France, ⁴Patient advocacy groups France Psoriasis, Paris, France, ⁵Université Paris-Dauphine, PSL Research University, LEDa[LEGOS], Paris, France*
- 0335 TNF- α gene polymorphisms may be associated with interactive effects of blood multi-elements in metal industrial workers
*Hung-Yi Chuang^{1,2}, Tzu-Hua Chen^{2,3}, Joh-Jong Huang^{2,4}
¹Department of Occupational and Environmental Medicine in Kaohsiung Medical University Hospital, Kaohsiung, Taiwan, ²Kaohsiung Medical University, Kaohsiung, Taiwan, ³Department of Family Medicine in Kaohsiung Municipal Ta-Tung Hospital, Kaohsiung, Taiwan, ⁴Department of Family Medicine in Kaohsiung Medical University Hospital, Kaohsiung, Taiwan*

- 0345 The role of the occupational physician in the diagnosis and prevention of occupational diseases in the 21st century.
Bieke Claesen^{1,2}, Antoon De Schryver^{1,2}
¹University of Antwerp, Antwerp, Belgium, ²IDEWE, Heverlee, Belgium
- 0349 Occupational health and safety knowledge users' perspectives about research use
Dwayne Van Eerd^{1,2}, Siobhan Cardoso¹, Emma Irvin¹, Ron Saunders¹, Trevor King¹,
Sara Macdonald¹
¹Institute for Work & Health, Toronto, Ontario, Canada, ²School of Public Health and Health Systems, University of Waterloo, Waterloo, Ontario, Canada
- 0351 National prevalence of occupational noise exposure
Lin Fritschi¹, Katherine Lewkowski¹, Jane Heyworth², Ian Li², Kahlia McCausland¹,
Warwick Williams³
¹Curtin University, Perth, Australia, ²University of Western Australia, Perth, Australia, ³National Acoustic Laboratories, Sydney, Australia
- 0365 Estimation of the burden of chronic obstructive pulmonary disease due to occupation in Great Britain
Sally Hutchings¹, Lesley Rushton¹, Steven Sadhra², David Fishwick^{3,4}
¹Imperial College London, Department of Epidemiology and Biostatistics, London, UK, ²Occupational and Environmental Medicine, College of Medical and Dental Sciences, University of Birmingham, Birmingham, UK, ³Health and Safety Laboratory, Buxton, UK, ⁴Infection, Immunity & Cardiovascular Disease, University of Sheffield, Sheffield, UK
- 0377 Climate change and changing prevalence of allergic disease in Taiwanese adolescents: Three nationwide surveys 15 years apart
Yue Leon Guo^{1,2}, Chi-Hsien Chen², Bing-Yu Chen¹
¹National Institute of Environmental Health Sciences National Health Research Institutes, Taipei, Taiwan, ²Department of Environmental and Occupational Medicine, National Taiwan University (NTU) College of Medicine and NTU Hospital, Taipei, Taiwan
- 0378 Occupational PM_{2.5} exposures and pulmonary function decline: an application of the parametric g-formula in a US aluminum industry cohort.
Andreas Neophytou¹, Sadie Costello¹, Daniel Brown¹, Elizabeth Noth¹, Sa Liu¹, S. Katharine Hammond¹, Mark Cullen², Ellen Eisen¹
¹Division of Environmental Health Sciences, School of Public Health, University of California, Berkeley, Berkeley, CA, USA, ²Department of Medicine, Stanford University, Palo Alto, CA, USA
- 0383 Caring for care-givers: Testing the impact of a management-driven health interventions on job satisfaction and retention of elder-care employees
Catherine Babcanec¹, Christina Rosebush¹, Patricia McGovern¹, Jean Bey², Hyun Kim¹
¹University of Minnesota School of Public Health, Minneapolis, MN, USA, ²Vista Prairie Communities, Hopkins, MN, USA
- 0384 Endotoxin exposure and lung disease in sawmill workers: a cohort study
Hanchen Chen^{1,2}, George Astrakianakis¹, Paul Demers³, Hugh Davies¹
¹University of British Columbia, Vancouver, British Columbia, Canada, ²Interior Health Authority, Kelowna, British Columbia, Canada, ³Occupational Cancer Research Center, Toronto, Ontario, Canada
- 0390 Preventing work disability in workers with depression: research to practise
Emma Irvin¹, Dwayne Van Eerd^{1,2}, Kim Cullen¹, Ron Saunders¹
¹Institute for Work & Health, Toronto, Ontario, Canada, ²School of Public Health and Health Systems, University of Waterloo, Waterloo, Ontario, Canada
- 0397 Detection of occupation injury and illness through surveillance at emergency room at a medical center in Tainan, Taiwan
Ting-Chia Weng¹, I-Lin Hsu^{2,3}, Chia-Chang Chuang², Heng-Hao Chang¹, Chen-Long Wu^{1,4}, Jung-Der Wang^{1,3}, How-Ran Guo^{1,4}, Yau-Chang Kuo^{1,4}
¹Department of Occupational and Environmental Medicine, National Cheng Kung

University Hospital, Tainan, Taiwan, ²Department of Emergency Medicine, National Cheng Kung University Hospital, Tainan, Taiwan, ³Department of Public Health, College of Medicine, National Cheng Kung University, Tainan, Taiwan, ⁴Department of Environmental and Occupational Health, National Cheng Kung University, Tainan, Taiwan

- 0401 Inequalities in labour force participation among persons with a chronic illness: a comparative analysis in 26 European countries in five regions.
Jolinda Schram, Merel Schuring, Alex Burdorf
Erasmus University Medical Center, Rotterdam, The Netherlands
- 0406 Analysis of infectious disease prevalence among semiconductor manufacturing workers with non-Hodgkin's lymphoma
Jung-min Sung, Sang-gil Lee, Eun-A Kim
KOSHA, Ulsan, Republic of Korea
- 0414 Retrospective changes in lung function of serving Scottish firefighters during their careers
Christopher Ide^{1,2}
¹Health Management Ltd, Altrincham, UK, ²Healthy Working Lives Group, University of Glasgow, Glasgow, UK
- 0426 Chronic cadmium intoxication with renal injury among workers in a small-scale silver soldering company
Won-Jun Choi, Seong-Kyu Kang
Gachon University Gil Medical Center, Incheon, Republic of Korea
- 0431 How can we avoid re-identification risk in big-data analysis? Proposition of a new strategy of geographical subdivisions using GIS tools
Charlotte Maugard^{1,2}, Christophe Cancé³, Pauline Achard¹, Olivier François², Vincent Bonneterre^{1,4}, Delphine Bosson-Rieutort^{1,2}
¹Grenoble-Alpes University (UGA) / TIMC-IMAG Laboratory (UMR CNRS 5525) / EPSP Team (Environment and Health Prediction of Populations), Grenoble, France, ²Grenoble-Alpes University (UGA) / TIMC-IMAG Laboratory (UMR CNRS 5525) / BCM Team (Computational and Mathematical Biology), Grenoble, France, ³Grenoble-Alpes University (UGA) / UMS GRICAD, Grenoble, France, ⁴Grenoble-Alpes Teaching Hospital ("CHU Grenoble-Alpes") / Occupational Medicine and Health Department, Grenoble, France
- 0437 Effect of age and body mass index as risk factor for occupational contingencies in healthcare workers.
Gonzalo Aicardi, Jonathan Alvarez, Fatima Cotobal, Marta Hernandez, Mercedes Cumplido, Lourdes Barrueco
SACYL, Salamanca, Castile and Leon, Spain
- 0440 Shoulder repetitiveness exposure threshold detection using adjusted hazard multivariate parametric modeling for Cumulative Trauma Disorders (CTD) prevention and causal assessment.
David Alvarez Rincón^{2,3}, Luisa Perez⁴
¹ICOH member, Milano, Italy, ²EPICOH member, Utrecht, The Netherlands, ³Provincial Workers' Compensation Board, Cali, Colombia, ⁴University of Alberta OHS certificate, Edmonton, Canada
- 0443 Sandstone mining: peril of silicosis
Ashish Mittal¹, Mohit Gupta²
¹OHS-MCS, Faridabad, Haryana, India, ²OEHNI, New Delhi, India
- 0445 A review of audiometric criteria for identifying noise-induced hearing loss among working adult populations
Laura Bogaert^{1,2}, Jonathan Fan^{1,2}, Peter Smith^{2,1}, Cameron Mustard^{2,1}
¹University of Toronto, Toronto, ON, Canada, ²Institute for Work and Health, Toronto, ON, Canada
- 0450 Preventing and promoting musculoskeletal health at the workplace through the design and evaluation of an innovative multicomponent intervention: the INTEVAL_Spain

project

Consol Serra^{1,4}, Sergio Vargas-Prada^{2,5}, Mercè Soler^{2,4}, Jose Maria Ramada^{3,1}, Pilar Peña⁶, Anna Amat², Ewan B. Macdonald⁷, Antoni Merelles⁸, Ana Maria Garcia⁹
¹Hospital del Mar Medical Research Institute (IMIM), Barcelona, Spain, ²CiSAL-Centre of Research in Occupational Health, University Pompeu Fabra, Barcelona, Spain, ³Occupational Health Service, Parc de Salut Mar, Barcelona, Spain, ⁴CIBER in Epidemiology and Public Health (CIBERESP), Spain, Spain, ⁵Unidad Central de Contingencias Comunes, Mutua Asepeyo, Barcelona, Spain, ⁶Occupational Health Service. Corporació Parc Taulí, Sabadell, Spain, ⁷Healthy Working Lives Group, University of Glasgow, Glasgow, UK, ⁸d'Infermeria. Facultat d'Infermeria i Podologia. Universitat de València, Valencia, Spain, ⁹Direcció General de Salut Pública. Conselleria de Sanitat Universal i Salut Pública. Generalitat Valenciana, Valencia, Spain

- 0458 Should occupational epidemiologists consider a new paradigm? The occupational cancer case
Charles-Olivier Betansed^{1,2}
¹Paris-Saclay/ Paris-Sud University, Kremlin Bicetre, France, ²INSERM CESP U1018, Kremlin Bicetre, France
- 0465 Gender, age, and the changing burden of work-related disability in Canada and Australia
Robert Macpherson¹, Tyler Lane², Alex Collie², Mieke Koehoorn¹, Peter Smith^{2,3}, Benjamin Amick³, Sheilah Hogg-Johnson³, Christopher McLeod^{1,3}
¹University of British Columbia, Vancouver, British Columbia, Canada, ²Monash University, Clayton, Victoria, Australia, ³Institute for Work & Health, Toronto, Ontario, Canada
- 0472 A global perspective on coal-fired power plants and cardiovascular diseases.
Bibhaw Pokharel, David C Christiani, Chen-Kuan Lin
Harvard TH Chan School of Public Health, Boston, MA, USA
- 0479 Occupational health in India: present scenario, challenges and way forward.
Jitendra Kumar Meena^{1,2}, Pankaja Raghav²
¹Geetanjali Medical College & Hospital, Udaipur, Rajasthan, India, ²All India Institute of Medical Sciences, Jodhpur, Rajasthan, India

EPICOH Early Career Researchers Meeting

13:00-14:00 Pentland

Chair: Laura Beane Freeman & Neela Guha

EPICOH Discussion - Where to from here to inform future policy?

14:15-15:15 Pentland

Chair: Anthony Newman Taylor

Panel: Laura Beane Freeman, Jason Glaser, Tord Kjellstrom, Ira Madan, Malcolm Sim

Prize Giving & Future Meetings

15:15-15:45 Pentland

Chair: Roel Vermeulen & Malcolm Sim

Peter Noone, ICOH 2018

Meeting close

15:45