HSE Science and Research Publications 2018

- Journal Papers
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- National Statistics
- Reports by HSE Scientists and Expert Committees
- Reports Prepared for HSE by Other Organisations

Journal Papers

BARBER, C., FISHWICK, D., CARDER, M. and VAN TONGERAN, M. Epidemiology of silicosis: reports from the SWORD scheme in the UK from 1996 to 2017. *Occupational and Environmental Medicine,* 2018, 76 (1), 17-21

BARBER, C., FISHWICK, D., SEED, M., CARDER, M. and VAN TONGEREN, M. Artificial stone-associated silicosis in the UK. *Occupational & Environmental Medicine,* 2018, 75 (7), 541

BASU, S., POOLE, J., FROST G. and FOX, D. Developing a questionnaire to assess the health effects of bioaerosols. *Occupational Medicine,* 2018, 68 (7), 448-453

BATT, R., GANT, S., LACOME, J. M., TRUCHOT, B. and TUCKER, H. CFD modelling of dispersion in neutrally and stably-stratified atmospheric boundary layers: results for Prairie Grass and Thorney Island. *International Journal of Environment and Pollution*, 2018, 63 (1-2), 1-18 (open access)

BRADSHAW, L., SUMNER, J., DELIC, J., HENNEBERGER, P. and FISHWICK, D. Work aggravated asthma in Great Britain: a cross-sectional postal survey. *Primary Health Care Research and Development,* 2018,19 (6), 561-569

BUTLER, O., CAIRNS, W., COOK, J., DAVIDSON, C. and MERTZ-KRAUS, R. Atomic spectrometry update - a review of advances in environmental analysis. *Journal of Analytical Atomic Spectrometry*, 2018, 33 (1), 8-56

CHAPLIN, Z. Major accident hazard pipeline failure frequency calculation using fracture mechanics. *Safety and Reliability, 2018,* 37 (4), 217-232

COCKAYNE, S., FAIRHURST, C., FROST, G., HEWITT, C., LIDDLE, M., ZAND, M., ILLES-SMITH, H., GREEN, L., CUNNINGHAM-BURLEY, R., TORGERSON, D. and on behalf of the SSHeW Study The SSHeW study protocol: does slip resistant footwear reduce slips among healthcare workers? A randomised controlled trial. *BMJ Open,* 2018, 8 (11), e026023

CONNOLLY, A., BASINAS, I., JONES, K., GALEA, K., KENNY, L., MCGOWAN, P. and COGGINS, M. Characterizing glyphosate exposures among amenity horticulturists using multiple spot urine samples. *International Journal of Hygiene and Environmental Health*, 2018, 221 (7), 1012-1022

CONNOLLY, A., LEAHY, M., JONES, K., KENNY, L. and COGGINS, M. Glyphosate in Irish adults - a pilot study in 2017. *Environmental Research*, 2018, 165, 235-236

CROOK, B., MAKISON BOOTH, C. and HALL, S. Fluorescence visualization as a training tool for infection control. *International Journal of Public Health & Safety*, 2018, 3 (2), 156 (open access)

CROOK, B., HALL, S., MAKISON BOOTH, C. and PORAN, V. Ensuring worker safety during an Ebola virus disease outbreak. *Virology and Retrovirology Journal,* 2018*,* 2 (1), 114

FISHWICK, D. and FORMAN, S. Health surveillance for occupational asthma. *Current Opinion in Allergy and Clinical Immunology,* 2018,18 (2), 80-86

FISHWICK, D. and WARREN, N. Asthma at work, Part 1: The nature, extent and causes of occupational asthma. *Occupational Health at Work*, 2018, 15 (2), 25-30 (open access)

GANT, S. and TUCKER, H. Computational fluid dynamics (CFD) modelling of atmospheric dispersion for land-use planning around major hazards sites in Great Britain. *JJournal of Loss Prevention in the Process Industries*, 2018, 54, 340-345 (open access)

GANT, S., WEIL, J., MONACHE, L. D., MCKENNA, B., GARCIA, M., TICKLE, G., TUCKER, H., STEWART, J., KELSEY, A., MCGILLIVRAY, A., BATT, R., WITLOX, H. and WARDMAN, M. Dense gas dispersion model development and testing for the Jack Rabbit II phase 1 chlorine release experiments. *Atmospheric Environment*, 2018, 192, 218-240 (open access)

GILHAM, C., RAKE, C., HODGSON, J., DARNTON, A., BURDETT, G., PETO WILD, J., NEWTON, M., NICHOLSON, A., DAVIDSON, L., SHIRES, M., TREASURE, T., PETO , J. and TIPS Collaboration Past and current asbestos exposure and future mesothelioma risks in Britain: The Inhaled Particles Study (TIPS). *International Journal of Epidemiology,* 2018, 47 (6), 1745-1756

HALL, S., POLLER, B., BAILEY, C., GREGORY, S., CLARK, R., ROBERTS, P., TUNBRIGDE, A., PORAN, V., EVANS, C. and CROOK, B. Use of ultraviolet- fluorescence based simulation in evaluation of personal protective equipment worn for first assessment and care of a patient with suspected high consequence infectious disease. *The Journal of Hospital Infection*, 2018, 99 (2), 218-228 (open access)

HEMINGWAY, R. and GUNAWAN, O. The Natural Hazards Partnership: a national public-sector collaboration in the UK for natural hazard disaster risk reduction. *International Journal of Disaster Risk Reduction*, 2018, 27,499-511 (open access)

JAMES, P., CANNON, J., BARBER, C., CRAWFORD, L., HUGHES, H., JONES, M., SZRAM, J., COOKSON, W., MOFFATT, M. and CULLINAN, P. Metal worker's lung: spatial association with mycobacterium avium. *Thorax,* 2018, 73 (2), 151-156

KHODADADYAN, A., MYTHEN, G., ASSA, H. and BISHOP, B. Tools and techniques in risk assessment in public risk management organisations. *International Journal of Economics and Management Engineering* 2018,12 (10), 1277-1283

KOJIMA, K., MAKISON BOOTH, C., SUMMERMATTER, K., BENNETT, A., HEISZ, M., BLACKSELL, S. and MCKINNEY, M. Risk-based reboot for global lab biosafety. *Science,* 2018, 360 (6386), 260-262

KOLLER, D., BRAMHALL, P., DEVOY, J., GOENAGA-INFANTE, H., HARRINGTON, C., LEESE, E., MORTON, J., CUELLO, S., ROGERS, J., SAMPSON, B. and POWELL, J. Analysis of soluble or titanium dioxide derived from titanium levels in human whole blood : consensus from an inter-laboratory comparison. *Analyst,* 2018, 143 5520-5529

LEE, T., THORPE, A., CAUDA, E., TIPTON, L., SANDERSON, W. and ECHT, A. Laboratory comparison of new high flow rate respirable size-selective sampler. *Journal of Occupational and Environmental Hygiene,* 2018,15 (10), 755-765

MCELVENNY, D., MUELLER, W., RITCHIE, P., CHERRIE, J., HIDAJAT, M., DARNTON, A., AGIUS, R. and VOCHT DE, F. British rubber and cable industry cohort: 49-year mortality follow-up. *Occupational & Environmental Medicine,* 2018, 75 (12), 848-855

MCNALLY, K., HOGG, A. and LOIZOU, G. A Computational workflow for probabilistic quantitative in Vitro to in Vivo extrapolation. *Frontiers in Pharmacology,* 18 May 2018, 9 (508)

MAKAROV, D., HOOKER, P., KUZNETSOV, M. and MOLKOV, V. Deflagrations of localised homogeneous and inhomogeneous hydrogen-air mixtures in enclosures. *International Journal of Hydrogen Energy*, 2018, 43 (20), 9848-9869

MOGRIDGE, R., BOWRY, A. and CLAYTON, M. Evaluation of a shortened qualitative fit test method for filtering facepiece respirators. *Journal of the International Society for Respiratory Protection*, 2018, 35 (1), 47-64

PATEL, K., BAILEY, C., HARDING, A.-H., BIGGIN, M. and CROOK, B. Background levels of microorganisms in busy urban environment of transport hubs. *Applied and Environmental Microbiology,* 2018, 125 (5), 1541-1551

PATTEMORE, P. K., SILVERS, K. M., FRAMPTON, C. M., WICKENS, K., INGHAM, T., FISHWICK, D., CRANE, J., TOWN, G. I., EPTON, M. J. and on behalf of the NEW ZEALAND ASTHMA AND ALLERGY COHORT STUDY GROUP Hair nicotine at 15 months old, tobacco exposure and wheeze or asthma from 15 months to 6 years old. *Paediatric Pulmonology,* 2018 ,53 (4), 433-451 (open access)

POLLER, B., HALL, S., BAILEY, C., GREGORY, S., CLARK, R., ROBERTS, P., TUNBRIGDE, A., PORAN, V., CROOK, B. and EVANS, C. 'VIOLET': a fluorescence-based simulation exercise for training healthcare workers in the use of personal protective equipment. *Journal of Hospital Infection*, 2018, 99 (2), 229-235 (open access)

POLLER, B., TUNBRIGDE, A., HALL, S., BEADSWORTH, M., JACOBS, M., PETERS, E., SCHMID, M. L., SYKES, A., PORAN, V., GENT, N., EVANS, C., CROOK, B. and on behalf of The High

Consequence Infectious Diseases Project Working Group A unified personal protective equipment ensemble for clinical response to possible high consequence infectious diseases: a consensus document on behalf of the HCID programme. *Journal of Infection* 2018, 77 (6), 496-502

SHIRVILL, L., ROBERTS, T. A., ROYLE, M., WILLOUGHBY, D. and SATHIAH, P. Effects of congestion and confining walls on turbulent deflagrations in a hydrogen storage facility-part 1: Experimental study. *International Journal of Hydrogen Energy,* 2018, 43 (15), 7618-7642

SNODGRASS, R. Ageing assets - workers get old too! *Safety and Reliability,* 2018, 37 (2-3), 94-105

STACEY, P., THORPE, A., ROBERTS, P. and BUTLER, O. Determination of respirable-sized crystalline silica in different ambient environments in the United Kingdom with a mobile high flow rate sampler utilising porous foams to achieve the required particle size selection. *Atmospheric Environment*, 2018, 182 51-57 (open access)

SUMNER, J., ROBINSON, E., BRADSHAW, L., LEWIS, L., WARREN, N., YOUNG, C. and FISHWICK, D. Underestimation of spirometry in the workplace if recommended testing guidance is not followed. *Occupational Medicine*, 2018, 68 (2), 126-128 (open access)

TOLIAS, I., STEWART, J. R., NEWTON, A., KEENAN, J., MAKAROV, D., HOYES, J., MOLKOV, V. and VENETSANOS, A. Numerical simulations of vented hydrogen deflagrations in a medium-scale enclosure. *Journal of Loss Prevention in the Process Industries*, 2018, 52 125-139

VAN DER VLUGT, C., BROWN, D., LEHMANN, K., LEUNDA, A. and WILLEMARCK, N. A framework for the risk assessment and management of gene drive technology in contained use. *Applied Biosafety,* 2018, 23 (1), 25-31 (open access)

WILKINSON, A., ALLWOOD, M., MORRIS, C., WALLACE, A., FINNIS, R., KAMINSKA, E., STONKUTE, D., SZRAMOWSKA, M., MILLER, J., PENGELLY, I. and HEMINGWAY, M. Performance testing protocol for closed-system transfer devices used during pharmacy compounding and administration of hazardous drugs. *PLoS ONE, 2018,* 13 (10), e0205263

WILLERTON, L. and MASON, H. The development of methods to measure exposure to a major rabbit allergen (Ory c 1). *AIMS Public Health*, 2018, 5 (2), 99-110 (open access)

Conference Papers

DAZON, C., WITSCHGER, O., BAU, S., PAYET, R., FIERRO, V., JENSEN, K., JANKOWSKA, E., BARD, D., TUINMAN, I. and LLEWELLYN, D. Dustiness de nanomateriaux en poudre: proposition d'un nouvel indice relatif a la metrique surface (Dustiness of nanomaterial in powder form: proposal of a new surface-based dustiness index). *Auteurs (2018) Congres Francais sur les Aerosols 2018,* Paris, France, 30-31 January 2018

DAZON, C., WITSCHGER, O., BAU, S., PAYET, R., JENSEN, K., JANKOWSKA, E., BARD, D., TUINMAN, I., DAHMANN, D. and LLEWELLYN, D. Dustiness de nanomateriaux en poudre:

inter-comparaison de quatre methodes [Dustiness of nanomaterial in powder: inter-comparison of four methods]. *Auteurs (2018) Congres Francais sur les Aerosols 2018* Paris, France, 30-31 January 2018

GOEDE, H., MCNALLY, K., GORCE, J.-P., MARQUART, H., WARREN, N., FRANSMAN, W., TISCHER, M. AND SCHINKEL, J. The development of the mechanistic model underpinning the dermal Advanced REACH Tool (dART). *9th International Conference on the Science of Exposure Assessment*, Manchester, UK, 24-26 Sept 2018

HEWITT, S. AND HAWKER, A. Evaluation of the effectiveness of tool timers for estimation of daily exposure time to hand arm vibration. *53rd UK Conference on Human Responses to Vibration*, Ascot, UK, 11-13 Sept 2018

MCNALLY, K., FAHAD, M., HALL, G. AND WARREN, N. Calibration with- and against-grain dimensional change using AGR moderator brick measurements. *6th EDF-Energy Nuclear Graphite Conference*, Kendal, UK, 15-18 Oct 2018

MCNALLY, K., GORCE, J.-P., GOEDE, H., SCHINKEL, J. AND WARREN, N. Dermal Advanced Reach Tool (dART): a Bayesian model for dermal exposure assessment. *9th International Conference on the Science of Exposure Assessment*, Manchester, UK, 24-26 Sept 2018

PITTS, P. The development of a tool for the initial assessment of back injury risks in driving: an introduction to the "BIRD" tool. *53rd Conference on Human Responses to Vibration*, Ascot, UK, 11-13 Sept 2018

PITTS, P. Suitability of using combined weight, hand-arm vibration and noise health risk factors in the rail industry. *53rd UK Conference on Human Responses to Vibration*, Ascot, UK, 11-13 Sept 2018

STACEY, N., BRADBROOK, S., ELLWOOD, P., REYNOLDS, J., WILLIAMS, A., RAVETZ, J., LYE, D., BRUN, E., STARREN, A. AND PALMER, K. Foresight of new and emerging occupational safety and health risks associated with information and communications technologies. *SIAS 2018. 9th International Conference on Safety of Industrial Automated Systems*, Nancy, France, 10-12 October 2018

STEWART, J. Modelling vented hydrogen deflagrations: the influence of user variability and model sensitivity. *59th UKELG Discussion Meeting*, University of Warwick, UK, 26th April 2018, http://ukelg.ps.ic.ac.uk/59JS.pdf(conference presentation slides open access)

Conference Abstracts & Posters

BALDWIN, P. and FORDER, J. Exposure measurement of diesel engine exhaust emissions (DEEE) in mines. *Midland Institute of Mining Engineers' 13th Safety Seminar*, Sheffield, UK, 20th April 2018

CLAYTON, M., ROBERTS, P., WADE, M. and ANGEAR, F. Improving the use of respiratory protective equipment. *OH2018*, Stratford Upon Avon, UK, 16th - 19th April 2018

COLDRICK, S. Modelling for the underground storage of explosives. *Midland Institute of Mining Engineers' 13th Safety Seminar*, Sheffield, UK, 20th April 2018

CONNOLLY, A., JONES, K., GALEA, K., BASINAS, I., KENNY, L., MCGOWAN, P. and COGGINS, M. 452 A pesticide exposure study using 24-hour biomonitoring and dermal sampling to determine total uptake and the routes of exposure. *Occupational & Environmental Medicine*, 2018, 75 (Suppl 2) Abstract presented at 32nd Triennial Congress of the International Commission on Occupational Health (ICOH), Dublin, Ireland 29th April- 4th May 2018, A467

FISHWICK, D. 1737a Occupation and COPD. *Occupational & Environmental Medicine*, Apr 2018, A458. Abstract presented at 32nd Triennial Congress of the International Commission on Occupational Health (ICOH), Dublin, Ireland, 29th April -4th May 2018

FISHWICK, D., BARBER, C. AND KAMIL, M. Early UK experience of referred cases of possible silicosis following updated guidance on silica health surveillance. *European Respiratory Journal*, Sept 2018, PA1208. Abstract Presented at ERS International Congress 2018, Paris, France. 15-19 Sept 2018

FISHWICK, D., MATTHEWS, S., KAMIL, M. AND BARBER, C. 433 GB silicosis bases following a recent guidance update. *Occupational & Environmental Medicine,* Apr 2018, A441 Abstract presented at 32nd Triennial Congress of the International Commission on Occupational Health (ICOH), Dublin, Ireland 29th April- 4th May 2018

FISHWICK, D., ROBINSON, E., WIEZER, N., MOCKALO, Z., GROSJEAN, V. AND ANDERSEN, L. 505 What are good jobs? a European PEROSH perspective. *Occupational & Environmental Medicine*, Apr 2018, A588. Abstract presented at 32nd Triennial Congress of the International Commission on Occupational Health (ICOH), Dublin, Ireland, 29th April -4th May 2018

FISHWICK, D., ROBINSON, E., WIEZER, N., MOCKALLO, Z., GROSJEAN, V. AND ANDERSEN, L. 430 Wellbeing at work; a European PEROSH perspective and wellbeing tree. *Occupational & Environmental Medicine*, Apr 2018, A586. Abstract presented at 32nd Triennial Congress of the International Commission on Occupational Health (ICOH), Dublin, Ireland, 29th April - 4th May 2018

GAGLIARDI, D., RONDINONE, B., MIRABILE, M., ELLWOOD, P., PASZKIEWICZ, P., HERY, M., BURESTI, G., VALENTI, A., VASSELLI, D. and LAVICOLI, S. 1215 The contribution of research to the future of work: global perspective. *Occupational & Environmental Medicine, 2018, 75 (Suppl 2), A76. Abstract presented at 32nd Triennial Congress of the International Commission on Occupational Health (ICOH), Dublin, Ireland, 29th-4th May 2018*

GALEA, K., BASINAS, I., CHERRIE, J., VERMEULEN, R., KROMHOUT, H., JONES, K., HARDING, A.-H., VAN TONGEREN, M. and POVEY, A. 1280 Improving exposure assessment methodologies for epidemiological studies on pesticides. *Occupational & Environmental Medicine,* 2018, 75 (Suppl 2) A464-A470. Abstract presented at 32nd Triennial Congress of the International Commission on Occupational Health (ICOH), Dublin, Ireland, 29th April -4th May 2018

GIBSON, M. Asbestos compliance and retrospective risk analysis. *OH2018*, Stratford Upon Avon, UK, 16th - 19th April 2018

GYTE, A. Measurement of livestock farming tasks where exposure to organic dusts and bioaerosols occur. *OH2018,* Stratford Upon Avon, UK, 16th - 19th April 2018

HALL, S., PENGELLY, I., THORPE, A. and SAUNDERS, J. Characterisation of particle and volatile organic compound emissions from desktop fused filament fabrication three dimensional printers using real-time and analytical techniques. *Airmon 2017: 9th International Symposium on Modern Principles of Air Monitoring and Biomonitoring*, Dresden, Germany, 11-15 June 2017

HAMBLING, S. Managing skin exposure to hazardous substances: a HSE view. *OH2018*, Stratford Upon Avon, UK, 16th - 19th April 2018

JONES, K. 1717c Biological monitoring and the use of guidance values in assessing occupational exposures. *Occupational & Environmental Medicine*, 2018, 75 (Suppl 2) 32nd Triennial Congress of the International Commission on Occupational Health (ICOH), Dublin, Ireland 29th April-4th May 2018, A200

JONES, K. Practical measurement: the role of biological monitoring in assessing skin absorption. *OH2018*, Stratford Upon Avon, UK, 16th - 19th April 2018

MASON, H. Measurement of respiratory sensitisers in seafood processing. *OH2018*, Stratford Upon Avon, UK, 16th - 19th April 2018

MOLLOY, M. Measurement and control of flour dust in bakeries. *OH2018*, Stratford Upon Avon, UK, 16th - 19th April 2018,

MORTON, J. 1646c Understanding informal sector exposures and prevention. *Occupational & Environmental Medicine,* 2018, 75 (Suppl 2) A235-A236. Abstract presented at 32nd Triennial Congress of the International Commission on Occupational Health (ICOH), Dublin, Ireland, 29th April - 4th May 2018

MORTON, J., BEATTIE, H., LEESE, E. and JONES, K. 1655b The usefulness of biological monitoring in determining manganese exposure in the workplace. *Occupational & Environmental Medicine*, 2018, 75 (Suppl 2), A510. Abstract presented at 32nd Triennial Congress of the International Commission on Occupational Health (ICOH), Dublin, Ireland, 29th April -4th May 2018

PENGELLY, I., SMITH, G. AND SHAH, P. Validation of a monitoring method for diacetyl using thermal desorption tubes and gas chromatography-mass spectrometry. *OH2018*, Stratford upon Avon, UK, 17-19 April 2018,

PICKERING, N., WILLIAMS, K. and KEEN, C. Is poor occupational hygiene practice and advice in the UK an issue, and if so how do we improve it? *OH2018*, Stratford Upon Avon, UK, 16th - 19th April 2018

POLLER, B., HALL, S., BAILEY, C., GREGORY, S., CLARK, R., ROBERTS, P., TONBRIDGE, A., PORAN, V., CROOK, B. AND EVANS, C. OP05 Visualising infection with optimised light for education and training (violet). *BMJ Simulation & Technology Enhanced Learning*, Jul 2018, 4 (Suppl 1) A8. Abstract presented at HEE Yorkshire & the Humber Clinical Skills & Simulation Conference, Leeds, UK, 4th July 2018

SANDYS, V. Dust and bioaerosol exposure during the processing of residual household waste. *OH2018*, Stratford Upon Avon, UK, 16th - 19th April 2018

SMITH, G. Review of use and monitoring of diacetyl in the UK. *OH2018*, Stratford Upon Avon, UK, 16th - 19th April 2018

SMPOKOU, E., LA ROSA GARCIA, B., LE BLOND, J., GLASER, J., CAMACHO, A., FABER, D., ARAGON, A., NORMAN, J., PEARCE, N., NITSCH, D., GONZALEZ, M., CAPLIN, B. and MORTON, J. 126 Baseline urinary findings in young adults at risk of chronic kidney disease of undetermined cause in northwestern Nicaragua. *Occupational and Environmental Medicine, 2018,* 75 (Suppl 2), A294. Abstract presented at 32nd Triennial Congress of the International Commission on Occupational Health (ICOH), 29 April -4 May 2018, Dublin, Ireland

STACEY, P. Losses of dust to walls of cassettes when using the GK2.69 sampler modified for 25mm diameter filters and implications for the Health and Safety Executive's (HSE) analytical method for respirable crystalline silica (RCS). *OH2018*, Stratford Upon Avon, UK, 16th - 19th April 2018, (open access)

STEWART, J. Modelling fires in compartments. 9*5th FABIG Technical Meeting: TM 95 Fire Hazards in Enclosed Spaces/Compartments*. Aberdeen & London, 27th & 28th June.

SVEDSATER, H., MACEY, J., DOLL, H., VANYA, M., MILES, G. and BRADSHAW, L. Evaluating the impact and benefits of once daily fluticasone furoate/vilanterol (FF/VI) in asthma and chronic obstructive pulmonary disease (COPD). *American Journal of Respiratory and Critical Care Medicine, 2018, 197, A4841. Poster presented at* ATS 2018 International Conference, 18-23 May 2018, San Diego, USA,

THOMPSON, E., POWELL, P., HEEDERIK, D., VAN TONGEREN, M., DE MATTEIS, S., WELDAM, S., SMYTH, D., SZMYTKE, E. AND FISHWICK, D. (2018) Using digital and social media to highlight the risk of occupational exposures as a cause of lung diseases. *European Respiratory Journal,* 52 (Suppl 62), OA1949. Abstract presented at ERS International Congress 2018, Paris, France, 15-19 Sept 2018

Trade and Professional Magazine Articles

BEERS, H. Understanding the next generation of workers: insights on expectations of work and perceptions about health and safety. *Safety and Health Practitioner*, Nov. 2018

BEERS, H., JOHNSON, S. and DAY, N. Changing world of work and occupational health: insights on working into older age. *Safety and Health Practitioner,* Apr 2018

BISHOP, B. Editorial. *The Evaluator,* Spring 2018, 3

BISHOP, B. Editorial: The UK Evaluation Conference 2017. *The Evaluator*, Conference 2017 3

BISHOP, B. (2018) Editorial: The UK Evaluation Conference 2018. *The Evaluator,* Conference 2018, 3-4

BRADSHAW, L. AND BARBER, C. (2018) Asthma at work, part 2: Diagnosis of occupational asthma. *OH at Work,* 15 (4), 27-32

JONES, A. (2018) Challenges of integrating human factors into design. *The Ergonomist,* 566

PINDER, A. The train drain. IOSH Magazine, Aug 2018

STACEY, N. and RICHARDS, A. 2018 Guest remarks *The Safety and Reliability Society Newsletter,* 312 1,

VANNIER, G., WILLOUGHBY, D., ROYLE, M., BRADLEY, I., GROENEVELD, B. AND CREWE, R. (2018) Review of the Technical Meeting which covered 'Testing of Products and Materials Subjected to Fire & Explosions'. *FABIG Technical Newsletters,* 72

National Statistics Publications 2018

Exposure to Lead

Fatal injuries arising from accidents at work in Great Britain: Headline results 2016/17

Health and Safety Statistics 2017

Mesothelioma mortality in Great Britain 1968-2016

Pesticide usage survey:amenity pesticides in the UK, 2016

Violence at work: findings from 2017/18 Crime Survery for England and Wales

Reports by HSE Scientists and Expert Committees

Annual science review 2018. HSE, 2018.

BEARDS, P. Common human factors underlying worker fatalities in the waste and recycling industry. HSE, 2018. (RR1128)

BELL, N., GOODWILL, E., WHITEHOUSE, V., GREAVES, D. Hazardous substances at work survey: an analysis of respondents' experiences and views of COSHH, CLAW and DSEAR. HSE 2018. (RR1124)

BELL, N., EVANS, G., BESWICK, A., MOORE, A. Summary of the evidence on the effectiveness of Mental Health First Aid (MHFA) training in the workplace. HSE, 2018. (RR1135)

BISHOP, B., BURGER, M., BEARDS, P., FROST, G., HASSALL, D., HOLMES, W. Stakeholder evidence to inform the development of HSE's Health and Work Strategy. HSE, 2018. (RR1136)

BUTLER, C., BELL, J., DEAN, M.H. Human factors in air displays: transfer of behaviours and error path study. Civil Aviation Authority, 2018. (CAP1694) http://publicapps.caa.co.uk/modalapplication.aspx?appid=11&mode=detail&id=8586

GERVAIS, R.L., GREAVES, D., LEKKA, C. Hazardous substances at work: findings from focus groups assessing operational staff's, dutyholders' and consultants' perceptions of COSHH, CLAW and DSEAR. HSE, 2018. (RR1125)

HEALTH AND SAFETY EXECUTIVE Foresight annual report 2017/18. HSE, 2018.

HSE WORKPLACE HEALTH EXPERT COMMITTEE (WHEC). Annual report 2017. TSO, 2018. ISBN 9780717666898

JONES, A. Manual handling risks to midwives associated with birthing pools: literature review and incident analysis. HSE, 2018. (RR1132)

MILLARD, C., MASON, H., BELL, J., BARBER, C. A health risk assessment of working in hypoxic atmospheres. HSE, 2018. (RR1137)

PENGELLY, I. Validation of a measurement method for diacetyl using sorbent tubes and thermal desorption. HSE, 2018. (RR1138)

THORPE, A., GERVAIS, R., SAUNDERS, J., BALDWIN, P., STAGG, S. In-cab air filtration in plant vehicles to control exposure to hazardous dust: quarry industry example. HSE, 2018. (RR1126)

WEBER, B., DOUWES, M., FORSMAN, M., KÖNEMANN, R., HEINRICH, K., ENQUIST, H., PINDER, A., PUNAKALLIO, A., UUSITALO, A., DITCHEN, D., TAKALA, E.P., DRAICCHIO, F., DESBROSSES, K., WICHTL, M., STREBL, M., WAERSTED, M., GUPTA, N., LECHNER, N., BAYONA, T.A., HOEHNE-HÜKSTADT, U., MATHIASSEN, S.E., HOLTERMANN, A., VEIERSTED, K.B. Assessing arm elevation at work with technical systems. PEROSH Joint Research Project: recommendations for procedures to measure occupational physical activity and workload. Partnership for European Research in Occupational Safety and Health, 2018. (pdf)

Reports Prepared for HSE by Other Organisations

TWI LTD. Maintaining the integrity of process plant susceptible to high temperature hydrogen attack. Part 1: analysis of non-destructive testing techniques. HSE, 2018. (RR1133)

TWI LTD. Maintaining the integrity of process plant susceptible to high temperature hydrogen attack. Part 2: factors affecting carbon steels. HSE, 2018. (RR1134)