Poster titles

Atmospheric conditions and composition that influence $PM_{2.5}$ oxidative potential in Beijing, China, **S. Campbell, K. Wolfer, B. Utinger, J. Westwood, Z.-h. Zhang, N. Bukowiecki, S. S. Steimer, T. V. Vu, J. Xu, N. Straw, S. Thomson, A. Elzein, Y. Sun, D. Liu, L. Li, P. Fu, A. C. Lewis, R. M. Harrison, W. J. Bloss, M. Loh, M. R. Miller, Z. Shi and M. Kalberer,** *University of Basel, Switzerland and University of Cambridge, UK*

Chemical characterisation of burning-related PM_1 in Old Delhi using high resolution aerosol mass spectrometry: new marker compounds and links to PM_1 chloride, **J. Cash, B. Langford, C. Di Marco, N. Mullinger, J. Allan, E. Reyes-Villegas, R. Joshi, M. R. Heal, W. J. F. Acton, N. Hewitt, P. K. Misztal, W. Drysdale, T. K. Mandal, Shivani, R. Gadi and E. Nemitz**, *The University of Edinburgh/Centre for Ecology and Hydrology, UK*

Sources and sinks driving sulphuric acid concentrations in contrasting environments: implications on proxy calculations, **L. Dada, I. Ylivinkka, R. Baalbaki, C. Li, Y. Guo, C. Yan, L. Yao, N. Sarnela, T. Jokinen, K. R. Daellenbach, R. Yin, C. Deng, B. Chu, T. Nieminen, Y. Wang, Z. Lin, R. C. Thakur, J. Kontkanen, D. Stolzenburg, M. Sipilä, T. Hussein, P. Paasonen, F. Bianchi, I. Salma, T. Weidinger, M. Pikridas, J. Sciare, J. Jiang, Y. Liu, T. Petäjä, V.-M. Kerminen and M. Kulmala**, *University of Helsinki, Finland and Beijing University of Chemical Technology, China*

Variation of size-segregated particle number concentrations in wintertime Beijing, **Y. Zhou, L. Dada, Y. Liu, Y. Fu, J. Kangasluoma, T. Chan, C. Yan, B. Chu, K. R. Daellenbach, F. Bianchi, T. V. Kokkonen, Y. Liu, J. Kujansuu, V.-M. Kerminen, T. Petäjä, L. Wang, J. Jiang and M. Kulmala,** *University of Helsinki, Finland and Beijing University of Chemical Technology, China*

Impacts on air quality in Beijing from production of HONO on illuminated aerosols, **L. Fleming, J. E. Dyson, G. A. Boustead, M. A. Blitz, S. Huan, L. K. Whalley, K. Lu, S. R. Arnold, D. V. Spracklen and D. E. Heard**, *University of Leeds, UK*

Air pollutant response during the COVID-19 lockdown in the South American Megacities of Bogotá, Lima, Santiago and São Paulo, **R. J. Seguel, Z. Fleming, L. Gallardo, M. Osses, N. Y. Rojas, E. Landulfo, M. d. F. Andrade, T. Nogueira, R. Rondanelli, N. Huneeus, C. Menares, S. Mangones, H. Eskes, L. C. Belalcázar, J. P. Rojas, S. Ibarra-Espinosa, M. Munizaga, N. Pantoja, P. Carrasco, R. Krejci, D. Stein, I. d. S. Andrade, F. G. Morais, A. C. Yoshida, M. Leiva, R. Toro and G. A. Moreira,** *Center for Climate and Resilience Research (CR)^2, Chile and University of Chile, Chile*

SWAPIT (Study of Winter Air Pollution in Toronto) - an upcoming study examining wintertime aspects of urban air quality, **E. Galarneau**, *Environment and Climate Change Canada - Air Quality Research Division, Canada*

Aerosol dynamics in two megacities: Delhi vs Beijing, **S. Gani, L. Dada, J. Kontkanen, P. Paasonen, C. Yan, B. Chu, C. Deng, J. Jiang, J. Kujansuu, J. Kangasluoma, K. Dällenbach, S. Bhandari, Y. Zhou, Y. Liu, Z. Arub, F. Bianchi, G. Habib, L. H. Ruiz, J. S. Apte, T. Petäjä and M. Kulmala**, *University of Helsinki, Finland*

Heterogeneous oxidation of SO_2 in sulfate production during nitrate photolysis at 300 nm, **M. Gen, R. Zhang, D. D. Huang, Y. Li and C. K. Chan**, *Kanazawa University, Japan and City University of Hong Kong, China*

Chemical source profiles of fine particles for five different sources in Delhi, **H. Hama and P. Kumar**, *University of Surrey, UK*

Health effects of ambient fine particulate matter and its chemical compositions in urban and peri-urban residents in Beijing: results of the AIRLESS project, **Y. Han, L. Yan, W. Chen, M. Zheng, Q. Chen, H. Zhang, T. Xue, J. Liu, Y. Wu, Q. Chan, B. Barratt, T. Zhu and F. J. Kelly,** *Imperial College London, UK, King's College London, UK and Peking University, China*

Indoor and outdoor CO_2 in cities and the effects on humans, **B. Kelly**, *Hydrock, UK*

Impact of COVID-19 lockdown on size-segregated particle number emissions in Beijing, **J. Kontkanen, C. Deng, L. Dada, Y. Zhou, S. Hakala, T. V. Kokkonen, Z. Lin, Y. Liu, Y. Wang, C. Yan, T. Petäjä, J. Jiang, M. Kulmala and P. Paasonen,** *University of Helsinki, Finland and Beijing University of Chemical Technology, China*

Contrasting chemical environments for atmospheric ozone across major Chinese industrial regions: the effectiveness of emission control strategies, **Z. Liu, R. M. Doherty, O. Wild, M. Hollaway and F. M. O'Connor**, *The University of Edinburgh, UK*

Aerosol particle number concentration on public transport in Bangkok, **J. Matthews, C. Chompoobut, P. Navasumrit, M. A. Khan, M. D. Wright, M. Ruchirawat and D. Shallcross**, *University of Bristol, UK*

Particulate matter pollution in Kolkata, India: trends and outlook, **V. F. McNeill, S. Sethuraman, Y. Das, A. Francis, S. Nobell, A. Majumdar, S. Mukherjee, S. Chakraborty, A. Kundu, S. Bose, A. Kolluru, S. Palit, D. Sengupta, D. Westervelt, S. Chatterjee and R. Basu,** *Columbia University, USA*

The effect of the nanostructure on the ageing of oleic acid as a cooking aerosol emission proxy, **A. Milsom, A. M. Squires and C. Pfrang**, *University of Birmingham, UK*

Urban grime photochemistry as a source for air pollutants and its potential impact on air quality, **F. Mothes and H. Herrmann**, *Leibniz Institute for Tropospheric Research (TROPOS), Germany*

Condensation sink of atmospheric vapors: the effect of different assumptions and the resulting uncertainties, **S. Tuovinen, J. Kontkanen, R. Cai and M. Kulmala,** *University of Helsinki, Finland*

Machine learning 'de-weathering' of urban NO_x data to quantify meteorological impacts at two traffic sites in Germany, **D. van Pinxteren, S. Düsing, A. Wiedensohler and H. Herrmann**, *Leibniz Institute for Tropospheric Research (TROPOS), Germany*

Chemical characterization of winter PM_1 pollution in Mexico City, **A. Retama and E. Velasco**, *Independent, Singapore*

Unprecedented ambient sulphur trioxide (SO_3) detection: possible formation mechanism and atmospheric implications, **L. Yao, X. Fan, C. Yan, T. Kurtén, K. R. Daellenbach, C. Li, Y. Wang, Y. Guo, L. Dada, M. P. Rissanen, J. Cai, Y. J. Tham, Q. Zha, S. Zhang, W. Du, M. Yu, F. Zheng, Y. Zhou, J. Kontkanen, T. Chan, J. Shen, J. T. Kujansuu, J. Kangasluoma, J. Jiang, L. Wang, D. R. Worsnop, T. Petäjä, V.-M. Kerminen, Y. Liu, B. Chu, H. He, M. Kulmala and F. Bianchi**, *University of Helsinki, Finland and Beijing University of Chemical Technology, China*

Ozone production in Delhi, India: the role of VOCs by class and species, **B. S. Nelson, G. J. Stewart, W. S. Drysdale, M. J. Newland, A. R. Vaughan, R. E. Dunmore, P. M. Edwards, A. C. Lewis, J. F. Hamilton, W. J. F. Acton, N. Hewitt, L. R. Crilley, M. S. Alam, R. Sommariva, W. J. Bloss, E. J. Slater, L. K. Whalley, B. Langford, E. Nemitz, S. Cox, R. Gadi, J. R. Hopkins, A. R. Rickard and J. D. Lee**, *University of York, UK*

Please note that only the presenting author's affiliation is listed for each poster.

The Faraday Discussions Poster Prize for the best poster was jointly awarded to Lubna Dada of the University of Helsinki, for her poster on 'Variation of size-segregated particle number concentrations in wintertime Beijing' and to Beth Nelson of the University of York, for her poster on 'Ozone production in Delhi, India: the role of VOCs by class and species'.