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| Link | First author | Co-authors | Title | Country/Region | Topic category | Presentation |
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| <u>HP1434</u> | Ali, Zulfiqar | Tahir Mahmood, Safdar Sidra, Zaheer A. Nasir, Ian Colbeck | Measurement of NO2 inside and outside various educational institutes of Lahore, Pakistan | Pakistan | A1: Indoor air chemistry | oral-poster |
| <u>HP0717</u> | Buechlein, Melissa | Kristia Parker, Glenn Morrison | Skin uptake of gas phase methamphetamine: effect of clothing | USA | A1: Indoor air chemistry | oral |
| HP1163 | Carslaw, Nicola | | A modelling study of limonene oxidation products following cleaning activities | United Kingdom | A1: Indoor air chemistry | oral |
| <u>HP1172</u> | Carslaw, Nicola | Andrew Terry, Mike Ashmore | Impacts of heatwaves on the indoor air quality of offices and their occupants: a glimpse of the future? | United Kingdom | A1: Indoor air chemistry | oral |
| <u>HP0303</u> | Chatsuvan, Thabtim | Maneerat Ongwandee | Effects of relative humidity and surface soiling on the sorption of organic pollutants to polymeric material | Thailand | A1: Indoor air chemistry | oral |
| <u>HP0130</u> | Gall, Elliott | Jeffrey A. Siegel, Richard L. Corsi | Sensitivity analysis of ozone-material modeling for porous materials in indoor environments | Singapore | A1: Indoor air chemistry | oral |
| <u>HP0124</u> | Gligorovski, Sasho | Vincent Bartolomei, Elena Gomez Alvarez, Julian Wittmer, Rafal Strekowski, Mirella Glor, Cornelius Zetzsch, Etienne Quivet, Henri Wortham | Photolysis of nitrous acid (HONO) emitted by a burning candle as a source of high levels of hydroxyl radicals (OH) | France | A1: Indoor air chemistry | oral |
| <u>HP0125</u> | Gligorovski, Sasho | Elena Gomez Alvarez, Damien Amedro, Charbel Afif, Coralie Schoemacker, Christa Fittschen, Jean- Francois Doussin, Henri Wortham | Light-induced breakdown of nitrous acid (HONO) as a source of unexpectedly high levels of hydroxyl radical (OH) | France | A1: Indoor air chemistry | oral |
| <u>HP0183</u> | Ho, Kinfai | Hsiao-Chi Chuang, Benjamin A Musa Bandowe, Steven Sai Hang Ho | The chemical properties and toxicology of fine particle (PM2.5) from incense burning in Hong Kong | Hong Kong | A1: Indoor air chemistry | oral-poster |
| <u>HP1006</u> | Huang, Yu | Shun Cheng Lee, Kin Fai Ho, Jiaping Wang, Xinyi Niu | Effect of NH3 on the formation of indoor secondary pollutants from ozone/monoterpenes reactions | Hong Kong | A1: Indoor air chemistry | oral-poster |
| <u>HP0330</u> | Ito, Kazuhide | Eunsu Lim, Kiyoshi Yamamoto | Small test chamber experiment and modeling of photocatalytic oxidation of volatile organic compounds under indoor environmental conditions | Japan | A1: Indoor air chemistry | oral |
| HP1067 | Kagi, Naoki | Norikazu Namiki, Kosuke Kondo, Hisae Nakagawa, Shuji Fujii | DEHP adsorption mechanisms on airborne particle surface in indoor air by chamber study | Japan | A1: Indoor air chemistry | oral |
| HP1309 | Khurshid, Shahana | Kerry A. Kinney, Jeffrey A. Siegel | The role of ozone and terpenes on the concentration of indoor particulate reactive oxygen species | USA | A1: Indoor air chemistry | oral |
| <u>HP1110</u> | Lee, Chia-Wei | Hsin-Hung Lin, Wei-Lun Lee, Xin Gao | Indoor air chemistry of ozone / smoke reaction in the guestroom | Taiwan | A1: Indoor air chemistry | oral |
| <u>HP1101</u> | Lee, Seokyong | Hyunsoo Lee, Wonho Yang, Yoon Shin Kim, Cheolmin Lee, Sunshin Kim, Byungjun Lee, Hogi Ahn, Jung Heo, Hyungtae Kim, Junyoung Yoo, David Lee, Kyunghwan Lee | Potential exposure to nitrogen dioxide and nitrous acid in houses, Korea | Korea South | A1: Indoor air chemistry | oral-poster |
| <u>HP0523</u> | Li, Hongwan | Glenn Morrison | Adsorption capacity of methamphetamine in gypsum drywall | USA | A1: Indoor air chemistry | oral |
| HP0571 | Lin, Chi-Chi | Yu-Lin Cheng | The study of BTEX and carbonyls emissions and ozone removal of green paints | Taiwan | A1: Indoor air chemistry | oral-poster |

| <u>HP1127</u> | Liu, Yu-Chun | Nai-Yun Hsu, Han-Yu Shih, Huey-Jen Su | Rising formaldehyde level is associated with the temperature in Taiwan residence | Taiwan | A1: Indoor air chemistry | oral |
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| <u>HP0638</u> | Mackenzie-Rae, Felix | Sandra M. Saunders, Xinming M. Wang, Tengyu Liu, Xiang Ding, Yanli Zhang, Wei Deng | Chamber study of α -phellandrene: indoor fragrant and ambient BVOC | Australia | A1: Indoor air chemistry | oral |
| <u>HP0104</u> | Mendez, Maxence | Nadège Blond, Didier Hauglustaine, Patrice Blondeau, Coralie Schoemaecker, Patrick Lebegue | Development and evaluation of inca-indoor – role of nitrogen dioxide surface reaction in the balance of nitrous acid | France | A1: Indoor air chemistry | oral-poster |
| <u>HP0549</u> | Mull, Birte | Olaf Wilke | Photocatalytical degradation of selected volatile organic compounds in emission test chambers | Germany | A1: Indoor air chemistry | oral |
| HP0593 | Nakamura, Shunta | Hoon Kim, Shin-Ichi Tanabe | Novel method to measure emission rate of VOCs-emission of formaldehyde | Japan | A1: Indoor air chemistry | oral |
| HP0932 | Noguchi, Miyuki | Shiori Komatsu, Haruka Osawa, Satoshi Yasuzawa, Akihiro Yamasaki | Formation of secondary fine particles and gaseous compounds through the ozonolysis of α -pinene -Effect of coexisting nitrogen monoxide (NO) | Japan | A1: Indoor air chemistry | oral |
| HP0202 | Rim, Donghyun | William W. Nazaroff | Ozone reaction with building materials: effects of diurnal variation and environmental conditions | USA | A1: Indoor air chemistry | oral |
| HP0185 | Salthammer, Tunga | Tobias Schripp | Estimating the distribution of organic pollutants in the indoor environment from molecular properties | Germany | A1: Indoor air chemistry | oral |
| HP0097 | Shu, Shi | Zhen He, Glenn Morrison | Large agglomerates formed from ozone reactions with surface bound alpha-terpineol and dihydromyrcenol | USA | A1: Indoor air chemistry | oral |
| HP0535 | Tsuji, Isamu | Hirofumi Horata, Kazuhide Ito | Experimental and numerical study for developing decomposition model of hydrogen peroxide on building materials | Japan | A1: Indoor air chemistry | oral |
| HP0983 | Waring, Michael | J. Raymond Wells | Role of different oxidants on VOC conversion in residences and offices | USA | A1: Indoor air chemistry | oral |
| HP0289 | Yamamoto, Kiyoshi | Eunsu Lim, Kazuhide Ito | Performance evaluation of reduction in VOC concentration by photocatalytic building materials in a real-scale chamber | Japan | A1: Indoor air chemistry | oral-poster |
| HP1107 | Ye, Wei | Steven S. Cox, Xiaomin Zhao, Charles E. Frazier, John C. Little | Partially-irreversible sorption of formaldehyde in polymeric materials | USA | A1: Indoor air chemistry | oral |
| HP0985 | Youssefi, Somayeh | Michael S. Waring | Transient secondary organic aerosol formation from d-limonene and α -pinene ozonolysis in indoor environments | USA | A1: Indoor air chemistry | oral |

| HP0061 | Chang, Chun-Chuan | Gregory F. Lane-Serff, David D. Apsley | The influence of humidity in modelling buoyancy-driven indoor ventilation | United Kingdom | A2: Indoor air physics | oral |
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| <u>HP1345</u> | Heschl, Christian | Peter Klanatsky, Kiao Inthavong | Turbulence modelling for indoor airflow simulation | Austria | A2: Indoor air physics | oral-poster |
| <u>HP1346</u> | Klanatsky, Peter | II prietian Hocchi Ionannoe Schnitzor Holmiit Illo | Influence of the moisture storage capacity of building materials on relative humidity in indoor environments | Austria | A2: Indoor air physics | oral-poster |
| HP1258 | Li, Yongqiang | Meng Liu, Yun Zhang | Analysis on pollutant distribution from ground source under typical architectural layouts | China | A2: Indoor air physics | oral |

| <u>HP0452</u> | Adams, Rachel | Seema Bhangar, Wilmer Pasut, Edward Arens, John W. Taylor, Steven E. Lindow, J.A. Huffman, William W. Nazaroff, Thomas D. Bruns | Characterizing microbes in occupied spaces: environmental chamber study of human emission factors | USA | A3: Indoor air microbiology | oral |
|---------------|----------------------|---|--|---------|-----------------------------|-------------|
| <u>HP0434</u> | Bhangar, Seema | Rachel I. Adams, Wilmer Pasut, J. Alex Huffman, Edward Arens, William W. Nazaroff | Human emissions of size-resolved fluorescent biological aerosol particles indoors | USA | A3: Indoor air microbiology | oral |
| <u>HP1152</u> | Caya, Alexandra | Maria King, Chloe Wooldridge, Juan P Maestre, Kerry Kinney | Characterization of the microbial community aerosolized in showers | USA | A3: Indoor air microbiology | oral |
| <u>HP0616</u> | Chatterjee, Kanistha | Eric Kettleson, Atin Adhikari, Sergey Grinshpun, Steve Vesper, Tiina Reponen | Assessing bacterial diversity in moisture-damaged buildings using pyrosequencing | USA | A3: Indoor air microbiology | oral |
| <u>HP0135</u> | Chen, Yen-Chi | Wen-Cheng Shao, Kuo-Pin Yu | A study on evaluating fungal growth and influential factors on building materials | Taiwan | A3: Indoor air microbiology | oral |
| <u>HP1092</u> | Dedesko, Sandra | Tiffanie Ramos, Jack A. Gilbert, Brent Stephens, Jeffrey A. Siegel | Using carbon dioxide and doorway beam-break sensors to determine occupancy in hospital patient rooms | Canada | A3: Indoor air microbiology | oral |
| <u>HP1211</u> | Dumala, Slawomira | Mariusz Skwarczynski, Marzenna Dudzinska | The effectiveness of the modules with UV lamps in ventilation systems | Poland | A3: Indoor air microbiology | oral-poster |
| <u>HP0988</u> | Gilbert, Jack | Kim Handley, Kristen Starkey, Jarrad Hampton Marcel, Jeffrey A. Siegel, Benjamin Kirkup, Brent Stephens | The Hospital Microbiome Project | USA | A3: Indoor air microbiology | oral |
| <u>HP0134</u> | Gong, Jia-You | Yi-Ting Huang, Kou-Pin Yu | For fungal spores, TiO2 nanopaticles may be a sun block than a photocatalyst | Taiwan | A3: Indoor air microbiology | oral |
| <u>HP0987</u> | Handorean, Alina | Odessa Gomez, Jane Turner, Mark T. Hernandez | Airborne biopolymer analyses to assess the performance of a modern building complex in reducing exposures to proximal wildfire pollution | USA | A3: Indoor air microbiology | oral-poster |
| <u>HP1038</u> | Hayashi, Motoya | Haruki Osawa | A field study on biological pollution and its environmental factors -annual change of mould and mite in the indoor air and on interior surface | | A3: Indoor air microbiology | oral-poster |
| <u>HP1380</u> | Hospodsky, Denina | Naomichi Yamamoto, William W. Nazaroff, Jordan Peccia | Influence of occupancy and building characteristics on the source strengths of bacteria and fungi in the classroom air of primary schools | USA | A3: Indoor air microbiology | oral |
| <u>HP0568</u> | Hyvärinen, Anne | Martin Täubel, José Jacobs, Hanna Leppänen, Alicia Borras, Esmeralda Krop, Jan-Paul Zock, Dick Heederik, Juha Pekkanen, Aino Nevalainen | A longitudinal assessment of microbial exposures in schools in relation to moisture damage and dampness | Finland | A3: Indoor air microbiology | oral-poster |
| <u>HP0646</u> | Ikeda, Koichi | Kazuya Tamura, Shoichi Nakai | Studies on microbial contamination control of the evaporative humidifier for HVAC system using electrolyzed water | Japan | A3: Indoor air microbiology | oral-poster |
| <u>HP0502</u> | Kang, Yoonkyung | Katsunori Nagano, Makoto Nakamura | The assessment of microbial contamination on energy recovery ventilation devices in the airtight-house | Japan | A3: Indoor air microbiology | oral-poster |

| <u>HP0910</u> | Keady, Patricia | Jonathan Awerbuch, Joanne Emerson, Noah Fierer, Shelly L. Miller | Environmental, occupancy, and seasonal factors associated with the microorganisms found in single family residences | USA | A3: Indoor air microbiology | oral |
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| HP0172 | Kuo, Yu-Mei | Ting-Ho Kuo, Sheng-Hsiu Huang, Chih-Wei Lin, Wen-Jong Wu, Chih-Chieh Chen | Characterization of an inkjet aerosol generator for bioaerosol survivability study | Taiwan | A3: Indoor air microbiology | oral-poster |
| HP0236 | Lawniczek-Walczyk, Anna | Malgorzata Golofit-Szymczak, Marcin Cyprowski, Agata Stobnicka, Rafal L. Górny | Microbial particles released from biomass in modern storage and processing rooms at power plants | Poland | A3: Indoor air microbiology | oral |
| <u>HP0552</u> | Lee, Shu-An | Yu-Kuang Wang | The effect of relative humidity during fungal growth on fungal release in the air | Taiwan | A3: Indoor air microbiology | oral-poster |
| <u>HP0455</u> | Leung, Marcus | David Wilkins, Ellen Li, Fred Kong, Patrick K.H. Lee | Using next-generation sequencing technology to determine the metagenome of the Hong Kong subway network | Hong Kong | A3: Indoor air microbiology | oral |
| <u>HP1182</u> | Levin, Hal | Richard L. Corsi | Conceptual framework for building science in indoor microbiome | USA | A3: Indoor air microbiology | oral |
| <u>HP1199</u> | Levin, Hal | | Indoor microbiome: literature on building science connections | USA | A3: Indoor air microbiology | oral |
| <u>HP1291</u> | Lewinska, Anna | Jakob B. Nielsen, Ruut H. Peuhkuri, Carsten Rode, Birgitte Andersen | Novel DNA barcodes for detection, idenfication and tracking of stachybotrys and chaetomium species | Denmark | A3: Indoor air microbiology | oral |
| <u>HP0015</u> | Loh, Tze Ping | Chun Kiat Lee, Hong Kai Lee, Evelyn S.C. Koay, Julian W. Tang | A novel application of high-speed, real-time shadowgraph imaging: demonstrating micro-droplet ejection from pipette tips and potential for contamination in molecular diagnostic laboratories | Canada | A3: Indoor air microbiology | oral |
| <u>HP0317</u> | Luan, Yameng | Jiarong Xie, Xiao Sun, Xudong Yang, Jan Sundell | The effect of limonene and ozone reactions on fractional exhaled nitric oxide. A pilot study | China | A3: Indoor air microbiology | oral |
| <u>HP0654</u> | Luhung, Irvan | Yan Wu, William W. Nazaroff, Victor W.C. Chang | DNA-based protocol optimization for bioaerosol sampling in an urban tropical environment | Singapore | A3: Indoor air microbiology | oral |
| <u>HP0738</u> | Luongo, Julia | Shelly L. Miller | Applying ultraviolet germicidal irradiation to HVAC heat exchangers to reduce biofouling and improve heat transfer capability | USA | A3: Indoor air microbiology | oral |
| <u>HP1413</u> | Macher, Janet | Wenhao Chen, Mark J. Mendell, Kazukiyo Kumagai | Indoor dampness and mold as indicators of respiratory health risks, Part 5: comparison of a moisture meter and water activity sensor to determine the dampness of gypsum wallboard | USA | A3: Indoor air microbiology | oral |
| <u>HP1420</u> | Macher, Janet | Mark J. Mendelll, Kazukiyo Kumagai, Asa Bradman, José M. Camacho, Kim G. Harley, Brenda Eskenazi | indoor dampness and mold as indicators of respiratory health risks, Part 4: higher measured moisture in homes with qualitative evidence of dampness or mold | USA | A3: Indoor air microbiology | oral |
| <u>HP1150</u> | Maestre, Juan | Kerry A. Kinney, Paola Passalacqua, Harish Sangireddy, Alexandra Caya, Chloe Wooldridge, Marwa Zaatari | Mapping the UT-Austin microbiome: exploring the outdoor to indoor gradient | USA | A3: Indoor air microbiology | oral |
| <u>HP0232</u> | Mensah-Attipoe, Jacob | Tiina Reponen, Anna-Mariaveijalainen, Helena Rintala, Martin Täubel, Anne Hyvärinen, Anniina Salmela, Pertti Pasanen | Comparison of methods for assessing growth of fungi on building materials | Finland | A3: Indoor air microbiology | oral |
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| <u>HP1244</u> | Miller, Dana | Denina Hospodsky, Sisira Gorthala, William W. Nazaroff, Jordan Peccia | Seasonal variation of indoor bacterial aerosols in naturally ventilated urban classrooms with high outdoor particulate matter concentrations | Singapore | A3: Indoor air microbiology | oral |
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| HP0285 | Nunez, Maria | | What are indoor microbial communities? An ecological approach | Norway | A3: Indoor air microbiology | oral |
| HP1388 | O'donnell, Anne | | The mould detection canine, an essential tool in the compliance of North American Guidelines with regards to mould detection | Canada | A3: Indoor air microbiology | oral-poster |
| <u>HP1066</u> | Osawa, Haruki | Motoya Hayashi | A field study on biological pollution and its environmental factors-mould and mite on the interior surface in winter and summer | Japan | A3: Indoor air microbiology | oral-poster |
| <u>HP0899</u> | Ramos, Tiffanie | Parham Azimi, Laurit Dide, Sandra Dedesko, Jack A. Gilbert, Jeffrey A. Siegel, Brent Stephens | Building science measurements in the Hospital Microbiome Project | USA | A3: Indoor air microbiology | oral |
| HP0974 | Reiman, Marjut | Sirpa Rautiala, Liisa Kujanpää | Microbial flora related to moisture damages in buildings | Finland | A3: Indoor air microbiology | oral-poster |
| <u>HP0408</u> | Reponen, Tiina | Sampo Saari, Jacob Mensah-Attipoe, Ari Ukkonen, Anna-Maria Veijalainen, Pertti Pasanen, Jorma Keskinen | Characterization of charge in airborne fungal spores | Finland | A3: Indoor air microbiology | oral |
| HP1095 | Siegel, Jeffrey | Mahnaz Zare, John Chase, Jennifer Fouquier, J. Gregory Caporaso, Scott Kelley, | Impact of building science parameters on microbial communities on indoor surfaces | Canada | A3: Indoor air microbiology | oral |
| <u>HP1270</u> | Spilak, Michal | Sofie M. Knudsen, Anne Mette Madsen, Barbara Kolarik, Marie Frederiksen, Lars Gunnarsen | Association between dwelling characteristics and concentrations of bacteria, endotoxin and fungi in settling dust | Denmark | A3: Indoor air microbiology | oral |
| HP0937 | Stephens, Brent | Akram Ali, Deion Debose, Boyang Dong, Torkan Fazli | Open source building science sensors for indoor microbiology | USA | A3: Indoor air microbiology | oral |
| HP0292 | Takehiro, Eriko | Takeshi Wakui, Mizue Sawada, Ko Tomita, Takashi Gondo, Kuniaki Mihara | Study of prompt mould evaluation method for indoor air quality | Japan | A3: Indoor air microbiology | oral |
| <u>HP0589</u> | Tsai, Ming Chien | Yen Chi Chen, Kuo-Pin Yu | The effect of support and heat treatment temperature on the antifungal efficiency of nano-silver | Taiwan | A3: Indoor air microbiology | oral-poster |
| <u>HP0658</u> | Wu, Yan | Irvan Luhung, Qingliang Cao, William W. Nazaroff, Victor W.C. Chang | Characterizing the indoor microbiome in an office in Singapore before and after cleaning to address a mold problem | Singapore | A3: Indoor air microbiology | oral |
| <u>HP0453</u> | Xie, Jiarong | Xiao Sun, Yameng Luan, Xudong Yang, Jan Sundell | Exhaled nitric oxide and acute PM2.5 exposure in healthy adults | China | A3: Indoor air microbiology | oral |
| <u>HP1091</u> | Zare, Mahnaz | Jeffrey A. Siegel | Equilibrium relative humidity measurements on common office surfaces | Canada | A3: Indoor air microbiology | oral |
| HP0359 | Zhang, Yun | Junjie Liu | The effect of air velocity, temperature and relative humidity on the microorganism growth on air filtration media | China | A3: Indoor air microbiology | oral |

| <u>HP1384</u> | Awamiira Yiifa | Momoi Kazunobu Sagara | Prediction of deodorant effect and change in particle size distribution of deodorant water mist sprayed downward by two-fluid nozzle | Japan | A4: Indoor aerodynamics | oral |
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| <u>HP0127</u> | Licina, Dusan | Arsen Melikov, Chandra Sekhar, Kwok Wai Tham | Interaction of convective flow generated by human body with room ventilation flow: impact on transport of pollution to the breathing zone | Denmark | A4: Indoor aerodynamics | oral |

| HP0579 | Bi, Chenyang | Ying Xu | The influence of temperature, ventilation and humidity on the fate and transport of indoor phthalates | USA | A5: Indoor transport phenomena | oral-poster |
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| <u>HP0469</u> | Cherniakov, Evgeny | Sauchung Fu, Ginnam S.Z.E. To, Christopher Y.H. Chao | A numerical investigation of effects of a moving operator on airborne contamination removal in a cleanroom | Hong Kong | A5: Indoor transport phenomena | oral |
| <u>HP1263</u> | Gunnarsen, Lars | Thomas Witterseh, Kathrine Birkemark Olesen | Validation of simple method for determination of penetration of PCB in concrete | Denmark | A5: Indoor transport phenomena | oral-poster |
| <u>HP0695</u> | Hathway, Abigail | Ilias Papakonstantis, Adorkor Bruce Konuah, Wernher Brevis | Towards understanding the role of human activity on indoor air flows: a case study of door motion based on both field and experimental activities | United Kingdom | A5: Indoor transport phenomena | oral |
| HP1389 | Hsiao, Ta-Chih | Zi-Hao Lin | Effect of dynamic shape factor on particle decay rate in test chamber | Taiwan | A5: Indoor transport phenomena | oral |
| <u>HP0605</u> | Khan, Amirul | Nicolas Delbosc, Catherine J. Noakes, Jon Summers | A lattice Boltzmann based real-time Computational Fluid Dynamics (CFD) simulation of movement-induced indoor contaminant transport | United Kingdom | A5: Indoor transport phenomena | oral |
| <u>HP1168</u> | Kwon, Soon-Bark | Minhae Kim, Sangwon Ko, Youngmin Cho, Duck- Shin Park, Wootae Jeong, Jaeyoun Jang | Distribution profile of airborne and surface microorganisms for a selected patient care area in a hospital | Korea South | A5: Indoor transport phenomena | oral |
| HP0817 | Leung, Wing Tong | Sauchung Fu, Christopher Y.H. Chao | Detachment of droplets from surfaces due to turbulent flow | Hong Kong | A5: Indoor transport phenomena | oral |
| HP0536 | Liang, Yirui | Ying Xu | Indoor residential fate model of phthalate plasticizers | USA | A5: Indoor transport phenomena | oral |
| <u>HP1117</u> | Liu, Cong | Barbara Kolarik, Lars Gunnarsen, Yinping Zhang | C-depth method to determine diffusion coefficient and partition coefficient of PCB in building materials | China | A5: Indoor transport phenomena | oral |
| HP0707 | Liu, Shichao | Guangyu Cao, Brandon E. Boor, Atila Novoselac | A protected occupied zone ventilation system to prevent the transmission of coughed particles | USA | A5: Indoor transport phenomena | oral |
| HP0941 | Mu, Yutong | Li Chen, Wenquan Tao, Yaling He | Coupling FVM and lattice Boltzmann method for pore scale investigation on volatile organic compounds emission process | China | A5: Indoor transport phenomena | oral |
| HP0371 | Pan, Jiechen | Guoqing He | Drying of paint and volatile residuals in the film | China | A5: Indoor transport phenomena | oral-poster |
| HP1140 | Poon, Carman | Alvin C.K. Lai | Size-resolved aerosol transport in a controlled two-zone environment | Hong Kong | A5: Indoor transport phenomena | oral |
| HP0159 | Saber, Esmail | Matthias Mast, Kwok Wai Tham, Hansjürg Leibundgut | Numerical modelling of an indoor space conditioned with low exergy cooling technologies in the tropics | Singapore | A5: Indoor transport phenomena | oral |
| <u>HP0394</u> | Sagheby, S. Hossein | Martin Kriegel | Numerical study of the dispersion of contaminants from a "cold" source in a low-velocity ventilated room | Germany | A5: Indoor transport phenomena | oral |
| <u>HP1004</u> | Shinohara, Naohide | Mayumi Uchiyama, Hirohumi Tanaka | Development of novel method to obtain the dermal exposure levels to SVOCs using PFS | Japan | A5: Indoor transport phenomena | oral-poster |

| HP0986 | Wang, Chunyi | Michael S. Waring | Particle generation in HVAC systems due to ozone/terpene reactions | USA | A5: Indoor transport phenomena | oral |
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| <u>HP0800</u> | Wei, Jianjian | Yuguo Li | Evolution of the vortex ring and its role in particle transport | Hong Kong | A5: Indoor transport phenomena | oral-poster |
| <u>HP0511</u> | Wood Richard | Duncan J. Borman, Catherine J. Noakes, Andrew W. Woods | Contaminant transport in a hospital corridor using a water-bath model | United Kingdom | A5: Indoor transport phenomena | oral |
| <u>HP0179</u> | Wu, Yan | Jianlei Niu, Naiping Gao | Numerical investigation of required mechanical exhaust rate to avoid expiration from open windows caused by buoyancy | China | A5: Indoor transport phenomena | oral |
| <u>HP0581</u> | Yan, Yihuan | Xiangdong Li, Jiyuan Tu | Numerical study of passenger thermal effects on the transport characteristics of exhaled droplets in an airliner cabin | Australia | A5: Indoor transport phenomena | oral |
| <u>HP0244</u> | Yang, Shen | Weihui Liang, Xudong Yang | Impact of several factors on indoor pollutant distribution uniformity in a single room with mechanical and isothermal ventilation | China | A5: Indoor transport phenomena | oral |

| <u>HP0073</u> | Azuma, Kenichi | Koichi Ikeda, Naoki Kagi, U Yanagi, Tomoko Shimodaira, Haruki Osawa | Prevalence of and risk factors for nonspecific building- related symptoms in employees working in office buildings: relationships among indoor air quality, work environment, and occupational stress in summer and winter | Japan | A6: Health and indoor air epidemiology | oral |
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| <u>HP0445</u> | Bhattacharjee, Suchismita | Mahfouz Tarek, Somik Ghosh | Association of indoor environmental quality of student residence halls with perceived health symptoms of the occupants | USA | A6: Health and indoor air epidemiology | oral-poster |
| <u>HP1230</u> | Chen, Nai-Tzu | Hsiu-Hao Liang, Yi-Ho Li, Huey-Jen Su | Associations of total and culturable fungi indoors with 8-OHdG, allostatic load score, and SBS | Taiwan | A6: Health and indoor air epidemiology | oral-poster |
| <u>HP1365</u> | Chuang, Hsiao Chi | Hua Wei Chen, Chih Ming Ma, Kai Jen Chuang | Effects of subway particles on cardiovascular health among commuters in Taipei, Taiwan | Taiwan | A6: Health and indoor air epidemiology | oral |
| <u>HP1379</u> | Dannemiller, Karen | Mark J. Mendell, Asa Bradman, Brenda Eskenazi, Janneane F. Gent, Brian P. Leaderer, Jordan Peccia | Next generation DNA sequencing of indoor fungi to determine associations between fungal communities and asthma development and severity | USA | A6: Health and indoor air epidemiology | oral |
| <u>HP0847</u> | Dijkstra, Nienke Elske | Yvonne De Kluizenaar, Serena Fossati, Philomena M. Bluyssen, Corinne Mandin, Victor G. Mihucz, Peder Wolkoff, Otto Hänninen, Eduardo De Oliveira Fernandes, Gabriela V. Silva, Paolo Carrer, John Bartzis | Modern office related determinants of dry eye complaints — the officair study | Netherlands | A6: Health and indoor air epidemiology | oral |
| HP1099 | Elholm, Grethe | Jakob Bønløkke, Vivi Schlünssen, Steffen Loft, Peder Wolkoff, Torben Sigsgaard | XDOZ; controlled human exposure to indoor air dust and ozone | Denmark | A6: Health and indoor air epidemiology | oral |
| <u>HP0999</u> | Fan, Guangtao | Jingchao Xie, Hiroshi Yoshino, U Yanagi, Kennyiqi Hasegawa, Jiaping Liu | Study on the association between residential environmental quality and children's health in Beijing | China | A6: Health and indoor air epidemiology | oral |
| <u>HP0735</u> | Fung, Cecilia | Ignatius T.S. Yu, Albert M. Li, William B. Goggins | Wheeze during the first 18 months of life: a prospective cohort study to explore the associations with indoor nitrogen dioxide, formaldehyde and family history of asthma | Hong Kong | A6: Health and indoor air epidemiology | oral |
| HP1310 | Grimes, Carl | Kevin Kennedy | "Dampness" definition and research questions advanced by practitioner input | USA | A6: Health and indoor air epidemiology | oral |
| HP1217 | Hägerhed-Engman, Linda | Malin Knutz, Huan Shu, Carl-Gustaf Bornehag | Early life exposure of self-reported mold odor is associated with asthma in children 10 years later | Sweden | A6: Health and indoor air epidemiology | oral |
| <u>HP0806</u> | Hasegawa, Kenichi | Hiroshi Yoshino, U Yanagi, Toru Otake, Kenichi Azuma, Haruki Osawa, Naoki Kagi, Naohide Shinohara, Asako Hasegawa | Indoor environmental problems and occupants' health in water-damaged homes due to tsunami disaster | Japan | A6: Health and indoor air epidemiology | oral |
| <u>HP0829</u> | Heederik, Dirk | José Jacobs, Alicia Borràs-Santos, Esmeralda Krop, Martin Täubel, Hanna Leppänen, Ulla Haverinen- Shaughnessy, Juha Pekkanen, Anne Hyvärinen, Gert Doekes, Jan-Paul Zock | Dampness, bacterial and fungal components in dust in primary schools and respiratory health in school children across Europe | Netherlands | A6: Health and indoor air epidemiology | oral |
| <u>HP0777</u> | Herbarth, Olf | Philipp Opitz, Silke Matysik | Long-term trend of indoor VOCs – changes in composition and consequences for human health risk assessment | Germany | A6: Health and indoor air epidemiology | oral |

| HP0962 | Hong, Seung-Cheol | Gi-Young Kim, Yun-Jin Lee | Investigation on the levels of exposure to radio frequency electromagnetic fields at youth's major living spaces | Korea South | A6: Health and indoor air epidemiology | oral-poster |
|---------------|--------------------|---|---|------------------|--|-------------|
| <u>HP0307</u> | Hou, Jing | Yuexia Sun, Zhigang Wang, Xiangrui Kong, Jing Guo, Yanmei Pang, Panfeng Deng, Yuan Gao, Jan Sundell | Differences in urban and rural home environment and the association with children's health in China | China | A6: Health and indoor air epidemiology | oral |
| <u>HP1080</u> | Huang, Chen | Wei Liu, Zhijunzou, Li Shen, Xueyingwang, Jan Sundell | Home environment, dwelling characteristics and pneumonia among Shanghai preschool children: a cross-sectional study | China | A6: Health and indoor air epidemiology | oral |
| <u>HP0128</u> | Hurrass, Julia | Regine Szewzyk, Christiane Baschien, Thomas Gabrio, Guido Fischer, Lothar Grün, Birger Heinzow, Thomas Hummel, Jana Panašková, Caroline E.W. Herr, Gerhard A. Wiesmüller | Risk of olfactory effects and impairment of well-being resulting from mould exposure – results of a workshop of the annual conference of the German society of hygiene, environmental medicine and preventive medicine held in Freiburg, Germany, in 2012 | Germany | A6: Health and indoor air epidemiology | oral |
| <u>HP0993</u> | Jinno, Hideto | Toshiko Tanaka-Kagawa, Yoko Okamoto, Maiko Tahara, Yoshiaki Ikarashi | Japanese national survey of volatile organic compounds in residential air for the revision of the indoor air quality guidelines | Japan | A6: Health and indoor air epidemiology | oral-poster |
| <u>HP1151</u> | Kaul, Nivedita | A.B. Gupta, Mukesh Khare, Gaurav Singh, Jyotirrmay Mathur, Sumit Khandelwal | Indoor air quality in different microenvironments and its impact on human respiratory health- a case study | India | A6: Health and Indoor air epidemiology | oral |
| <u>HP1133</u> | Kim, Jinman | In-Sick Nam, Hyun-Jun Yun, Jinho Yang, Hyeon- Ju Oh, Jong-Ryeul Sohn | The associated with allergy disease of children and concentration of bacteria in the daycare centers | Korea South | A6: Health and indoor air epidemiology | oral-poster |
| <u>HP1102</u> | Kim, Sunshin | Hyunsoo Lee, Wonho Yang, Kuck-Hyeun Woo, Seong-Yong Yoon, Seokyong Lee, Hogi Ahn, Sungyong Choi | Exposure assessment to hydrofluoric acid by chemical accident in Gumi city, Korea – evacuation or staying at home | Korea South | A6: Health and indoor air epidemiology | oral-poster |
| <u>HP0082</u> | King, Marco-Felipe | Catherine J. Noakes, P. Andrew Sleigh | The role of surfaces in the transmission of bioaerosols from source to patient in hospital single and two-bed rooms | H Inited Kingdom | A6: Health and indoor air epidemiology | oral |
| HP0252 | Kjeldsen, Birthe | Jørn Toftum, Pawel Wargocki, Henriette R. Menå, Eva M.N. Hansen, Geo Clausen | Classroom ventilation type and pupil learning | Denmark | A6: Health and indoor air epidemiology | oral |
| <u>HP0231</u> | Kong, Xiangrui | Yufeng Zhang, Yuexia Sun, Yanmei Pang, Jing Hou, Panfeng Deng, Jing Guo, Yuan Gao, Ruiling Liu, Jan Sundell | Report from an ongoing epidemiological investigation on the association between children's health and home environmental factors in Tianjin, China | China | A6: Health and indoor air epidemiology | oral-poster |
| HP0642 | Lao, Xiangqian | Arthur Pui-Sang Lau, Adrien Kam-Cheuk Chan, Kin-Fai Ho, Claudie Chiu-Yi Wong, Ignatius Tak- Sun Yu | Prospective cohort study on health effects of school environmental air quality in Hong Kong school children | China | A6: Health and indoor air epidemiology | oral-poster |
| <u>HP1225</u> | Lee, Seokyong | Byungjun Lee, Hyunsoo Lee, Jung Heo, Sunshin Kim, Wonho Yang, Jungkwan Seo, Hyojung Yoon | Exposure factors of Korean children - focusing on time- activity pattern and inhalation rate | Korea South | A6: Health and indoor air epidemiology | oral-poster |
| <u>HP0918</u> | Liu, Wei | Chen Huang, Li Shen, Zhijun Zou, Xueying Wang, Jan Sundell | Associations between asthma, related symptoms and ventilation in the sleeping room during night among Shanghai preschool children | China | A6: Health and indoor air epidemiology | oral |
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| HP1128 | Shih, Han-Yu | Nai-Yun Hsu, Hsin-Wen Chang, Pei-Yu Chen, Pamela-Joy Wei, Huey-Jen Su | The profile of children's respiratory symptoms before and after the flooding event | Taiwan | A6: Health and indoor air epidemiology | oral |
|----------------|---------------------------|--|---|-----------|--|-------------|
| <u> IP1007</u> | Tahara, Maiko | Toshiko Tanaka-Kagawa, Yoko Okamoto, Kaori Mayumi, Yoko Kawahara, Yoshiaki Ikarashi, Hideto Jinno | Random sampling survey of indoor air total volatile organic compounds in Kanto region, Japan | Japan | A6: Health and indoor air epidemiology | oral-poster |
| <u>HP0526</u> | Takaoka, Motoko | Kyoko Suzuki, Dan Norbäck | Sick building syndrome among junior high school students in Japan in relation to the home and school environment | Japan | A6: Health and indoor air epidemiology | oral |
| <u>IP0356</u> | Takayama, Naoto | Toshiharu Ikaga, Shingo Hori, Masaru Suzuki, Wataru Umishio | Bathing and indoor thermal environment: modeling body temperature and preventing heat stroke | Japan | A6: Health and indoor air epidemiology | oral-poster |
| <u> HP0961</u> | Tanaka-Kagawa, Toshiko | Susumu Ohkawara, Yoko Okamoto, Kaori Mayumi, Maiko Tahara, Yoko Kawahara, Yoshiaki Ikarashi, Hideto Jinno | Activation of nociceptive transient receptor potential channels by antimicrobial agents/isothiazolinones in consumer products | Japan | A6: Health and indoor air epidemiology | oral-poster |
| HP0222 | Taubel, Martin | Caroline Shorter, Nevil Pierse, Anne Hyvärinen, Julian Crane | Quantitative PCR determination of microbes in relation to observed measures of mould in homes | Finland | A6: Health and indoor air epidemiology | oral |
| <u>HP1370</u> | Terschüren, Claudia | Odile C.L. Mekel, Nadine Steckling, Reinhard Samson, Myriam Tobollik, Claudia Hornberg | Environmental burden of disease due to second-hand smoke in Germany: results of the VegAS project | Germany | A6: Health and indoor air epidemiology | oral |
| <u> HP0402</u> | Tham, Kwok W | Moshood O. Fadeyi, Wei Y. Wu, Henry C. Willem, Gerald Koh | Effect of ozone initiated chemistry on physiological responses of tropically acclimatized subjects in a simulated office environment | Singapore | A6: Health and indoor air epidemiology | oral |
| <u>HP0835</u> | Thiault, Guénaël | Eddie Faure, Loïc Paillat, Ghislaine Goupil, Sophie Riffet, Claudie Delaunay | Investigations highlighting carbon monoxide | France | A6: Health and indoor air epidemiology | oral-poster |
| <u> IP0539</u> | Umishio, Wataru | Toshiharu Ikaga, Kuniaki Otsuka, Shintaro Ando | Impacts of indoor thermal environment and personal factors on home blood pressure in winter | Japan | A6: Health and indoor air epidemiology | oral |
| <u> HP0563</u> | Wang, Juan | Karin Engvall, Greta Smedje, Dan Norbäck | Rhinitis, asthma and airway infections among adults in relation to the home environment in multifamily buildings in Sweden | Sweden | A6: Health and indoor air epidemiology | oral |
| HP0093 | Wang, Lifang | Fang Qu, Yinping Zhang, Jan Sundell | Housing characteristics and home environment in relation to allergic rhinitis among preschool children in Beijing, China: a cross-sectional study | China | A6: Health and indoor air epidemiology | oral |
| <u> 1P0965</u> | Wang, Xueying | Chen Huang, Wei Liu, Zhijun Zou, Li Shen, Jan Sundell | Associations between dwelling characteristics, home environment and allergic rhinitis among preschool children in Shanghai | China | A6: Health and indoor air epidemiology | oral |
| <u>IP0044</u> | Wiesmüller, Gerhard | Regine Szewzyk, Christiane Baschien, Thomas Gabrio, Guido Fischer, Birger Heinzow, Monika Raulf-Heimsoth, Caroline Ew Herr | Risk of toxic reactions to mould exposure – results of a workshop of the annual conference of the German society of hygiene, environmental medicine and preventive medicine held in Munich, Germany in 2011 | Germany | A6: Health and indoor air epidemiology | oral |
| <u> 1P0566</u> | Wong, Claudie | Xiang-Qian Lao, Helen H.L. Chang, Ignatius T.S. Yu | Exposure to household cleaning products and respiratory health effects in young school children | Hong Kong | A6: Health and indoor air epidemiology | oral |
| <u> HP0547</u> | Xie, Shao-Hua | Ignatius Tak-Sun Yu, Lap Ah Tse, Joseph Siu Kie Au, June Sze Man Lau | Domestic incense burning and nasopharyngeal carcinoma in Chinese: who are more likely to be the victims? | Hong Kong | A6: Health and indoor air epidemiology | oral |

| <u>HP0448</u> | Yamaguchi, Rika | Natsuko Nagasawa, Ryuichi Kato, Hitomi Tsutsumi, Yukiko Matsuoka, Takashi Akimoto, Shin-Ichi Tanabe | The importance of non-energy benefits in living environments for promoting stress-related health | Japan | A6: Health and indoor air epidemiology | oral |
|---------------|-----------------|---|---|--------|--|-------------|
| <u>HP0790</u> | Zaitseva, Nina | Olga U. Ustinova, Konstantin P. Luzhetsky, Olga A. Maklakova | Health status characteristics of children living in the conditions of formaldehyde indoor air pollution | Russia | A6: Health and indoor air epidemiology | oral-poster |
| <u>HP0049</u> | Zhang, Xin | Fan Li, Li Zhang, Zhuohui Zhao, Gunilla Wieslander, Dan Norback | Sick building syndrome among pupils in relation to school environment in Taiyuan, China | China | A6: Health and indoor air epidemiology | oral-poster |
| <u>HP0067</u> | Zhang, Yan | Yu Gao, Rong Shi, Xiaojin Wang, Michihiro Kamijima, Kiyoshi Sakai, Ying Tian | Household pesticide exposure and the risk of childhood acute leukemia in Shanghai, China | China | A6: Health and indoor air epidemiology | oral-poster |
| <u>HP0647</u> | Zhao, Zhuohui | Dan Norback, Weimin Song, Hongwei Guo, Jinzhuo Zhao, Haidong Kan | Residential risk factors for atopic dermatitis in 3- to 6-year-old children: a cross-sectional study in Shanghai, China | China | A6: Health and indoor air epidemiology | oral-poster |
| <u>HP0774</u> | Zock, Jan-Paul | Alicia Borràs-Santos, José Jacobs, Esmeralda Krop, Kati Huttunen, Maija-Riitta Hirvonen, Martin Täubel, Dick Heederik, Juha Pekkanen, Anne Hyvärinen | Moisture damage in primary school buildings and respiratory health effects in teachers: the HITEA longitudinal study | Spain | A6: Health and indoor air epidemiology | oral |

| Arens, Edward | Li Huang, Tyler Hoyt, Xin Zhou, Hui Zhang, Stefano Schiavon | Modelling the comfort effects of short-wave solar radiation indoors | China | A7: Thermal comfort | oral |
|--------------------------|--|---|---|---|--|
| Bolineni, Sandeep | Sebastian Stratbücker, Christoph Van Treeck | Indoor flow response modelling of convective heat transfer coefficients on human manikin | Germany | A7: Thermal comfort | oral |
| Bolineni, Sandeep | Sebastian Stratbücker, Soheil Ziaee, Christoph Van Treeck | Coupling strategy for transient simulation of human thermoregulation and CFD indoor airflow models | Germany | A7: Thermal comfort | oral |
| Bryn, Ida | Søren Gedsø, Arnkell Petersen | Facade thermal comfort documentation and performance criteria | Norway | A7: Thermal comfort | oral-poster |
| Bugáň, Jozef | Dušan Petráš | Experimental measurements of thermal comfort in two office buildings with low temperature heating and high temperature cooling systems | Slovakia | A7: Thermal comfort | oral-poster |
| Cao, Bin | Min Li, Gang Liu, Yingxin Zhu | Thermal comfort in an open space of an office building: a field study in subtropical region | China | A7: Thermal comfort | oral |
| Chang, Shih-Yin | Chen-Peng Chen | Subjective perception and theroregulation in response to solar radiation and thermal transient developed from loss of solar radiant heat | Taiwan | A7: Thermal comfort | oral |
| Chen, Chen-Peng | Shun-Hua Ho, Hui-Chen Wei, Yi-Chun Lin | Change in thermal sensation and thermal comfort as a result of using N95 filtering facepiece respirators under influence of temperature | Taiwan | A7: Thermal comfort | oral |
| Chen, Fujiang | Jinliang Wang, Jianfang Chen, Li Tao, Qiang Guo, Weidong Sun, Pengcheng Zhao | Numerical simulation on air dispersion of fabric air distribution system in slot-penetration mode | China | A7: Thermal comfort | oral |
| Chen, Jianbo | Lina Guo , Minglu Qu, Jimiao Pan | An experimental study on indoor thermal comfort of the coupled capillary radiation with household replacement fresh air system | China | A7: Thermal comfort | oral |
| Cheong, Kok Wai David | Xin Yi Ng | Thermal comfort of sleeping human subject in the tropics: a pilot study | Singapore | A7: Thermal comfort | oral |
| Cholewa, Tomasz | Alicja Siuta-Olcha, Marzenna R. Dudzińska | The analysis of thermal comfort in a room with radiant floor with different finishing materials of the floor surface | Poland | A7: Thermal comfort | oral-poster |
| Cui, Weilin | Qin Ouyang, Yingxin Zhu | physiological parameters | | A7: Thermal comfort | oral |
| Deng, Qihong | Jinping Zhao | Heat stroke due to indoor environmental factors: modeling and prediction | China | A7: Thermal comfort | oral-poster |
| Du, Xiuyuan | Baizhan Li, Hong Liu, Yu Yang, Jie Yang | Improvement of different local air exposures on human thermal sensation in neutral-hot environment | China | A7: Thermal comfort | oral |
| Fišer, Jan | | Impact of variance of clothing thermal resistance on comfort zone diagram modification | Czech Republic | A7: Thermal comfort | oral-poster |
| Fu, Ming | Tiefeng Yu, Hui Zhang, Wenguo Weng, Hongyong Yuan | Heat and moisture transfer through clothing for a person with contact surface | China | A7: Thermal comfort | oral |
| Gauthier, Stephanie | David T. Shipworth | Generating empirical probabilities of metabolic rate and clothing insulation values in field studies using wearable sensors | United Kingdom | A7: Thermal comfort | oral |
| | Bolineni, Sandeep Bolineni, Sandeep Bryn, Ida Bugáň, Jozef Cao, Bin Chang, Shih-Yin Chen, Chen-Peng Chen, Fujiang Chen, Jianbo Cheong, Kok Wai David Cholewa, Tomasz Cui, Weilin Deng, Qihong Du, Xiuyuan Fišer, Jan Fu, Ming | Stefano Schiavon Bolineni, Sandeep Sebastian Stratbücker, Christoph Van Treeck Bolineni, Sandeep Sebastian Stratbücker, Soheil Ziaee, Christoph Van Treeck Bryn, Ida Søren Gedsø, Arnkell Petersen Bugáň, Jozef Dušan Petráš Cao, Bin Min Li, Gang Liu, Yingxin Zhu Chang, Shih-Yin Chen-Peng Chen Chen, Chen-Peng Shun-Hua Ho, Hui-Chen Wei, Yi-Chun Lin Jinliang Wang, Jianfang Chen, Li Tao, Qiang Guo, Weidong Sun, Pengcheng Zhao Chen, Jianbo Lina Guo, Minglu Qu, Jimiao Pan Cheong, Kok Wai David Cholewa, Tomasz Alicja Siuta-Olcha, Marzenna R. Dudzińska Cui, Weilin Qin Ouyang, Yingxin Zhu Deng, Qihong Jinping Zhao Du, Xiuyuan Baizhan Li, Hong Liu, Yu Yang, Jie Yang Fišer, Jan Tiefeng Yu, Hui Zhang, Wenguo Weng, Hongyong Yuan | Rolineni, Sandeep Sebastian Stratbücker, Christoph Van Treeck Bolineni, Sandeep Sebastian Stratbücker, Soheil Ziaec, Christoph Van Treeck Bryn, Ida Søren Cedsø, Arnkell Petersen Bugån, Jozef Dušan Petráš Dušan Petráš Cao, Bin Min Li, Gang Liu, Yingxin Zhu Chen-Peng Chen Chen-Peng Shun-Hua Ho, Hui-Chen Wei, Yi-Chun Lin Chen, Chen-Peng Jinliang Wang, Jianfang Chen, Li Tao, Qiang Guo, Weidong Sun, Pengcheng Zhao Lina Guo, Minglu Qu, Jimiao Pan Chen, Jianbo Lina Guo, Minglu Qu, Jimiao Pan Chenong, Kok Wai David Cholewa, Tomasz Alicja Siuta-Olcha, Marzenna R. Dudzińska Deng, Qihong Jinping Zhao Subjectine precipation and thermal comfort in the tropics: a pilot study Internal comfort of sleeping human subject in the tropics: a pilot study Internal comfort of sleeping human subject in the tropics: a pilot study Internal comfort of a recent finishing materials of the floor surface Ffect of air pressure on human manikin Chen Jianbo Lina Guo, Minglu Qu, Jimiao Pan Chen, Fujiang Jinliang Wang, Jianfang Chen, Li Tao, Qiang Guo, Weidong Sun, Pengcheng Zhao An experimental measurements of thermal comfort as a result of using N95 filtering facepiece respirators under influence of temperature An experimental study on indoor thermal comfort of the coupled capillary radiation with household replacement fresh air system Thermal comfort of sleeping human subject in the tropics: a pilot study Deng, Qihong Jinping Zhao Jinping Zhao | Bollineni, Sandeep Sebastian Stratbücker, Christoph Van Treeck Indoor flow response modelling of convective hoat transfer coefficients on human manikin Germany | Schward Stafano Schiavon Indoor Start Indoo |

| <u>HP1109</u> | Hamidi, Nafiseh | Dominique Hes | Non-uniform environments - evaluation of personal ventilation performance in an open plan office building in warm and humid climate | Australia | A7: Thermal comfort | oral |
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| <u>HP0753</u> | Han, Jieun | Yoorim Choi, Minjung Kim, Yongmin Kim, Chungyoon Chun | Effect of temperature on occupants' anger | Korea South | A7: Thermal comfort | oral-poster |
| <u>HP0631</u> | Hellwig, Runa | Sabine Brasche, Hansjürgen Gebhardt, Gunnar Grün, Kersten Bux, Wolfgang Bischof | Considering training effects in performance tests – the case of the D2-attention test | Germany | A7: Thermal comfort | oral |
| <u>HP0604</u> | Hirose, Ayaka | Hirotaka Kubo, Manami Shinohara, Shin-Ichi Kagiya, Noboru Oohira, Yuki Shimanuki, Shin- Ichi Tanabe | Effects of unsteady thermal stimulus from contact surface on thermal comfort | Japan | A7: Thermal comfort | oral |
| <u>HP1175</u> | Hong, Xiaowei | Xiaohan Du, Dong Chen, Yufeng Zhang | Thermal comfort survey of homes in Guangzhou | China | A7: Thermal comfort | oral-poster |
| <u>HP0113</u> | Honnekeri, Anoop | Margaret C. Pigman, Hui Zhang, Edward Arens, Marc Fountain, Yongchao Zhai, Spencer Dutton | Use of adaptive actions and thermal comfort in a naturally ventilated office | USA | A7: Thermal comfort | oral |
| HP0353 | Ishii, Jin | Shinichi Watanabe | Field survey on thermal environment in toilet in Japanese house during summer | Japan | A7: Thermal comfort | oral-poster |
| <u>HP0726</u> | Ishii, Yoshiaki | Shin-Ichi Tanabe, Tomoji Kitahara, Fumito Yamagata, Kengo Tatara | Thermal comfort of radiant ceiling panel cooling system installed in an office in Japan | Japan | A7: Thermal comfort | oral |
| <u>HP0414</u> | Jin, Quan | Lin Duanmu | Thermal sensation and skin temperature during step- change in non-uniform indoor environment | Finland | A7: Thermal comfort | oral |
| <u>HP0035</u> | Kabanshi, Alan | Marijke Keus, Hans Wigö, Robert Ljung, Patrik Sörqvist | The effect of heat stress on writing performance in a classroom | Sweden | A7: Thermal comfort | oral-poster |
| <u>HP1450</u> | Kabanshi, Alan | Hans Wigö, Robert Ljung, Patrick Sörqvist | Perception of intermittent air velocities in classrooms | Sweden | A7: Thermal comfort | oral-poster |
| <u>HP0186</u> | Karimipanah, Taghi | Ulf Larsson, Mathias Cehlin | Investigation of flow pattern for a confluent-jets system on a workbench of an industrial space | Sweden | A7: Thermal comfort | oral |
| <u>HP0681</u> | Karlsen, Line | Grigori Grozman, Per Heiselberg, Ida Bryn | Operative temperature and thermal comfort in the sun – implementation and validation of a model for IDA ICE | Norway | A7: Thermal comfort | oral |
| <u>HP0592</u> | Kato, Shun | Shin-Ichi Tanabe, Daiki Kawamata, Ken Unno, Junta Nakano, Kiyoshi Sakamoto, Shiro Kase, Hiroshi Oishi, Akihisa Takahashi | Evaluation of natural ventilation performance and thermal comfort in railway station | Japan | A7: Thermal comfort | oral |
| <u>HP1126</u> | Kim, Jungsoo | Richard De Dear | The effects of contextual differences on office workers' perception of indoor environment | Australia | A7: Thermal comfort | oral |
| <u>HP0277</u> | Kindangen, Jefrey | Judy O. Waani, Amanda S. Sembel, Linda Tondobala | Investigation of thermal comfort in a passive and low energy classroom building. From gender's point of view | Indonesia | A7: Thermal comfort | oral-poster |
| HP0828 | Kitazawa, Sachie | Rune Korsholm Andersen, Pawel Wargocki, Jakub Kolarik, Marcel Schweiker | Seasonal differences in human responses to increasing temperatures | Japan | A7: Thermal comfort | oral |
| <u>HP1054</u> | Law, Tim | | Radical methodology: the design and commercialisation nexus in research innovation on personal thermal comfort | Australia | A7: Thermal comfort | oral |

| <u>HP0699</u> | Lee, Juyoun | Changjin Jeong, Jeungchan Lee, Wonseok Oh, Sooyeol Lee, Minhyung Cho, Kyungmo Park | Brain correlates with thermal comfort during whole body cooling by air flow | Korea South | A7: Thermal Comfort | oral |
|---------------|---------------------------|---|---|-------------|---------------------------------------|-------------|
| <u>HP0586</u> | Lee, Meng-Chieh | Ling-Tim Wong, Kok-Wei Mui, Chia-Feng Chang, Wai-Hou Lam | Energy conservation between natural ventilated and air- conditioned classroom in Taiwan | Taiwan | A7: Thermal comfort | oral |
| HP0290 | Li, Min | Bin Cao, Jérôme Damiens, Yingxin Zhu | Indoor thermal comfort in a mix mode office building in Shenzhen for a long time | China | A7: Thermal comfort | oral |
| <u>HP1001</u> | Li, Xiang | Bin Chen, Joe R. Zhao | An understanding of thermal comfort based on philosophy of harmony between nature and human | China | A7: Thermal comfort | oral |
| <u>HP0334</u> | Li, Yanru | Yannagao, Jun Wang, Enshen Long | Assessment on indoor thermal environment of residential building room with capillary-tube air conditioning system | China | A7: Thermal comfort | oral-poster |
| <u>HP0375</u> | Lipczynska, Aleksandra | Jan Kaczmarczyk, Arsen K. Melikov | Performance of radiant cooling ceiling combined with personalized ventilation in an office room: identification of thermal conditions | Denmark | A7: Thermal comfort | oral |
| <u>HP0018</u> | Luo, Maohui | Bin Cao, Min Li, Qin Ouyang, Yingxin Zhu | Residential space heating: individual or centralized? A field study on indoor thermal comfort in Beijing. | China | A7: Thermal comfort | oral |
| <u>HP0029</u> | Luo, Maohui | Juan Yu, Qin Ouyang, Yingxin Zhu | Application of dynamic airflow to split air-conditioning and its impacts on human thermal response | China | A7: Thermal comfort | oral |
| <u>HP1297</u> | Moga, Ligia | Ioan Moga | Heat loss coefficient influence on the energy performance of buildings | Romania | A7: Thermal comfort | oral |
| HP0225 | Nagano, Kazuo | Chisato Kani, Tetsumi Horikoshi | Climate atlas of Japan by the universal effective temperature ETU | Japan | A7: Thermal comfort | oral-poster |
| <u>HP1241</u> | Nakano, Junta | Shin-Ichi Tanabe | Thermal comfort zone of semi-outdoor public spaces | Japan | A7: Thermal comfort | oral |
| HP0780 | Nathwani, Ashak | | Indoor thermal comfort in commercial buildings versus air conditioning systems | Australia | A7: Thermal comfort | oral |
| <u>HP0686</u> | Park, Dong yoon | Seongju Chang | Numerical analysis on the thermal and air exchange performance of linear slot diffuser length variations in an office space | Korea South | A7: Thermal comfort | oral |
| HP0915 | Pasut, Wilmer | Hui Zhang, Ed Arens, Yongchao Zhai | Energy-efficient comfort with a heated/cooled chair | USA | A7: Thermal comfort | oral |
| HP1293 | Pustayova, Hana | Dušan Petráš | Thermal comfort in dwelling buildings after refurbishment | Slovakia | A7: Thermal comfort | oral |
| HP0881 | Saito, Teruyuki | Satoru Kuno, Saki Ota, Mayumi Mimura | The effect of natural ventilation on physiological and psychological responses to the indoor thermal environment of Japanese housing | Japan | A7: Thermal comfort | oral |
| <u>HP0470</u> | Sakoi, Tomonori | Naoto Tominaga, Arsen K Melikov, Sona Kolencikova | Cooling clothing utilizing water evaporation | Japan | A7: Thermal comfort | oral |
| HP0471 | Sakoi, Tomonori | Arsen K. Melikov, Sona Kolencikova, Naoto Tominaga | Improvement of thermal comfort by cooling clothing in warm climate | Japan | A7: Thermal comfort | oral |
| HP0472 | Sakoi, Tomonori | Tohru Mochida, Yoshihito Kurazumi, Kazuyo Tsuzuki, Ryozo Ooka | Modification of standard effective temperature for the evaluation of activity intensity | Japan | A7: Thermal comfort | oral |
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| <u>HP0028</u> | Schiavon, Stefano | Tom Webster, Darryl Dickerhoff, Fred Bauman | Stratification prediction model for perimeter zone UFAD diffusers based on laboratory testing with solar simulator | USA | A7: Thermal comfort | oral |
|---------------|----------------------------|--|--|-------------|---------------------|-------------|
| HP0048 | Schiavon, Stefano | Donghyun Rim, Wilmer Pasut, William W. Nazaroff | Sensation of draft at ankles for displacement ventilation and underfloor air distribution systems | USA | A7: Thermal comfort | oral |
| <u>HP0933</u> | Sehizadeh, Ali | Hua Ge | Impact of future climate change on the thermal comfort of Canadian housing retrofitted to the PassiveHaus standard | Canada | A7: Thermal comfort | oral |
| <u>HP0678</u> | Simone, Angela | Juan Yu, Gabriele Levorato, Bjarne W. Olesen, Yingxin Zhu | Thermal comfort assessment of Danish occupants exposed to warm environments and preferred local air movement | Denmark | A7: Thermal comfort | oral |
| HP1002 | Son, Youngjoo | Yoorim Choi, Minjung Kim, Yongmin Kim, Chungyoon Chun | Occupants' stress based on brain waves and salivary alphaamylase responses on each PMV condition | Korea South | A7: Thermal comfort | oral |
| <u>HP0456</u> | Sui, Xuemin | Xu Zhang | Drawing of new thermal comfort charts for radiant cooled residential buildings | China | A7: Thermal comfort | oral-poster |
| <u>HP0763</u> | Tsutsumi, Hitomi | Mai Fujiwara, Shin-Ichi Tanabe, Satoshi Hori, Yoshio Shimizu, Hiroaki Io, Chieko Hamada, Yasuhiko Tomino | Field measurement on thermal comfort of patients and medical staff in a dialysis room | Japan | A7: Thermal comfort | oral |
| <u>HP0415</u> | Tsuzuki, Kazuyo | Naomi Morito, Hajime Nishimiya | Effects of airflow from air conditioners on human thermoregulation during sleep | Japan | A7: Thermal comfort | oral |
| <u>HP1086</u> | van den Ouweland, Eefke | Wim Zeiler, Yvonne De Kort, Gerarda Nierman, Wim Maassen, Gert Boxem | Perceived comfort in offices; a holistic approach | Netherlands | A7: Thermal comfort | oral |
| HP0822 | Verhaart, Jacob | Michal Veselý, Wim Zeiler | Design of a neck heating system | Netherlands | A7: Thermal comfort | oral |
| HP0698 | Veselý, Michal | Wim Zeiler | How to quantify thermal sensation and comfort? | Netherlands | A7: Thermal comfort | oral-poster |
| <u>HP0848</u> | Veselý, Michal | Wim Zeiler | Fingertip temperature as a control signal for personalized heating | Netherlands | A7: Thermal comfort | oral |
| <u>HP1089</u> | Vissers, Derek | Wim Zeiler, Gert Boxem | Wireless determination of skin temperature by an infrared camera compared with i-buttons measurements | Netherlands | A7: Thermal comfort | oral |
| <u>HP0601</u> | Vorre, Mette | Rasmus L. Jensen | Does variation in clothing make us more thermally comfortable? | Denmark | A7: Thermal comfort | oral |
| <u>HP0390</u> | Wang, Xin | Chen Huang, Ping Lu | Comparison of indoor thermal environment with two kinds of air distributions in a large space in summer | China | A7: Thermal comfort | oral-poster |
| HP0668 | Wang, Zhaojun | Jing Ren, Chengzu Kang, Xuexiang Zhang | Thermal comfort before and at the beginning of heating at office rooms in China severe cold zone | China | A7: Thermal comfort | oral |
| <u>HP0370</u> | Wu, Mingyang | Xiaohua Liu, Kang Zhao, Yuwei Zheng | Testing and comparative analysis on indoor thermal environments in the large space building of airport | China | A7: Thermal comfort | oral |
| <u>HP0237</u> | Wu, Yu-Chi | Ardeshir Mahdavi | Subjective evaluation of thermal sensation and comfort subsequent to spatial transitions | Austria | A7: Thermal comfort | oral |
| <u>HP0442</u> | Xia, Qian | Xiaoping Niu, Jianlei Niu, Kenny C.S. Kwok | Effects of building lift-up design on pedestrian gust wind environment | Hong Kong | A7: Thermal comfort | oral |
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| HP0588 | Yang, Bin | Stefano Schiavon, Chandra Sekhar, Kok Wai Cheong, Kwok Wai Tham, William Nazaroff | Performance evaluation of an energy efficient stand fan | Singapore | A7: Thermal comfort | oral |
|---------------|----------------|--|---|----------------|---------------------|-------------|
| <u>HP1131</u> | Yang, Liu | Haiyan Yan, Wuxing Zheng, Rui Hu | Residential thermal environment and thermal comfort in a rural area with a hot-arid climate: field study during the summer in Turfan, China | China | A7: Thermal comfort | oral |
| <u>HP0114</u> | Yang, Rui | Xiang Zhou, Xu Zhang | Field study of interaction effect of sound and vibration on human thermal comfort in bus | China | A7: Thermal comfort | oral |
| <u>HP1074</u> | Yang, Wei | Nyuk Hien Wong, Junli Zhou | Overcooling and thermal comfort in air conditioned university buildings in Singapore | China | A7: Thermal comfort | oral |
| HP0083 | Yu, Juan | Angela Simone, Gabriele Levorato, Yingxin Zhu, Bjarne W. Olesen | Offset of warm sensation by local air flow: Chinese and Danish preference | China | A7: Thermal comfort | oral-poster |
| <u>HP0687</u> | Yumoto, Issei | Shin-Ichi Tanabe | Development of a numerical thermoregulation model that considers the effects of aging | Japan | A7: Thermal Comfort | oral |
| <u>HP0278</u> | Zhai, Yongchao | Yufeng Zhang, Qinglin Meng, Huimei Chen, Jinyong Wang | Gender differences in thermal comfort in a hot-humid climate | USA | A7: Thermal comfort | oral-poster |
| <u>HP0942</u> | Zhang, Fan | Richard De Dear, Christhina Candido | Thermal comfort during direct load control events in university lecture theatres | Australia | A7: Thermal comfort | oral |
| <u>HP0683</u> | Zhang, Jingsi | Xiang Zhou, Qiqi Zhang, Xiaohu Dai | Impact of Occupant Behaviour on Heating Energy Consumption and Human Thermal Comfort in Residential Buildings | China | A7: Thermal comfort | oral |
| <u>HP1171</u> | Zhang, Yufeng | | Design indicators of thermal environments for residential buildings in hot summer and warm winter zone of China | China | A7: Thermal comfort | oral-poster |
| <u>HP0584</u> | Zhao, Mingjie | Yang-Seon Kim, Shi Shu, Jelena Srebric | Thermal comfort investigation in supermarkets and grocery stores based on in-situ measurements and a survey study | USA | A7: Thermal comfort | oral |
| HP0889 | Zhou, Xin | Hui Zhang, Zhiwei Lian, Li Lan | Predict thermal sensation of Chinese people using a thermophysiological and comfort model | China | A7: Thermal comfort | oral |
| HP0637 | Zhou, Y. | K.W. Mui, C.T. Cheung | Use of Indoor Environmental Quality (IEQ) calculator for assessing indoor thermal acceptance in air-conditioned classroom | Hong Kong | A7: Thermal comfort | oral-poster |
| HP1451 | Zhuo, Yanbin | Gang Liu, Chenyi Lin | Indoor thermal comfort and heating temperature setpoint threshold research for office building in Tianjin China | China | A7: Thermal comfort | oral-poster |
| HP0902 | Zuska, Lenka | Michal Kabrhel | New method for evaluation of non-uniform indoor environment | Czech Republic | A7: Thermal comfort | oral-poster |
| HP0152 | Lan, Li | Zhiwei Lian, Xin Zhou | Effects of moderate air temperature fluctuation on sleep quality and thermal comfort in healthy people | China | A7: Thermal comfort | oral |

| HP0575 | Almeida, Susana | Sandra Cabo Verde, João Matos, Carla A. Ramos, Carla Viegas, Tiago Faria | Indoor air quality in hospital environments | Portugal | A8: IAQ & perceived air quality | oral-poster |
|----------------|---------------------------|---|--|-----------|---------------------------------|-------------|
| HP0970 | Bamba, Ikuko | Kenichi Azuma | Relation of changes in cerebral blood flow and diffusion material caused by smelling wood | Japan | A8: IAQ & perceived air quality | oral-poster |
| <u>HP1079</u> | Brosig, Laura | Wolfgang Horn, Lars Pyza, Oliver Jann | Applicability: odour Measurement based on ISO 16000-28 – enhanced determination of indoor air quality | Germany | A8: IAQ & perceived air quality | oral-poster |
| <u>HP0674</u> | Chen, Ailu | Qingliang Cao, Victor W.C. Chang | Occurrence of airborne phthalates in different air- conditioned buildings in Singapore | Singapore | A8: IAQ & perceived air quality | oral |
| HP0219 | Du, Liuliu | Tadas Prasauskas, Virpi Leivo, Mari Turunen, Anu Aaltonen, Mihkel Kiviste, Dainius Martuzevicius, Ulla Haverinen-Shaughnessy, The Insulate Project Group | Building energy-efficiency interventions in North-East Europe: effects on indoor environmental quality and public health | Finland | A8: IAQ & perceived air quality | oral |
| <u>HP0400</u> | Fadeyi, Moshood | Kwok W. Tham, Wei Y. Wu, Henry C. Willem | Effect of ozone initiated chemistry on perceptual responses and work performance of tropically acclimatized subjects in a simulated office environment | Singapore | A8: IAQ & perceived air quality | oral |
| HP0143 | Földváry, Veronika | Gabriel Bekő, Dušan Petráš | Impact of energy renovation on indoor air quality in multifamily dwellings in Slovakia | Slovakia | A8: IAQ & perceived air quality | oral |
| IP1073 | Höllbacher, Eva | Cornelia Rieder-Gradinger, Daniel Stratev, Ewald Srebotnik | Influence of VOC emissions from wood and wood-based materials on indoor air quality | Austria | A8: IAQ & perceived air quality | oral |
| <u>IP0694</u> | Hurtíková, Daniela | Dušan Petráš | The energy performance certificate of ventilation and evaluation of indoor air quality in office building in Slovakia | Slovakia | A8: IAQ & perceived air quality | oral-poster |
| IP0500 | Justo Alonso, Maria | Hans Martin Mathisen, Jun Guan, Johan Halvarsson | Case study of window and ventilation renovation and its impact on indoor climate | Norway | A8: IAQ & perceived air quality | oral |
| [P1149 | Kaul, Nivedita | A.B. Gupta, Mukesh Khare, Gaurav Singh, Sumit Khandelwal | Characteristics of combustion generated pm and nox: a case study of hostel kitchens, India | India | A8: IAQ & perceived air quality | oral |
| <u>IP0838</u> | Koskela, Hannu | Henna Maula, Annu Haapakangas, Viivi Moberg, Valtteri Hongisto | Effect of low ventilation rate on office work performance and perception of air quality – a laboratory study | Finland | A8: IAQ & perceived air quality | oral |
| <u>IP0275</u> | Kurita, Hirofumi | Akira Mizuno | Evaluation of oxidative radical reaction in aqueous media injected by discharge devices used in indoor air cleaners | Japan | A8: IAQ & perceived air quality | oral-poster |
| IP0831 | Lappalainen, Vuokko | Helena Järnström, Pertti Pasanen | VOC profiles indicating odour IAQ problems in dwellings | Finland | A8: IAQ & perceived air quality | oral-poster |
| I <u>P1055</u> | Lin, Zhijing | Tingting Wang, Dan Norback, Haidong Kan, Jinzhuo Zhao, Weimin Song, Hongwei Guo, Zhuohui Zhao | Sick building syndrome, perceived odors, sensation of air dryness and indoor environment in Urumqi, China | China | A8: IAQ & perceived air quality | oral |
| <u>IP0376</u> | Lipczynska, Aleksandra | Jan Kaczmarczyk, Arsen K. Melikov | Performance of personalized ventilation combined with chilled ceiling in an office room: inhaled air quality and contaminant distribution | Denmark | A8: IAQ & perceived air quality | oral |
| IP1323 | Lopušniak, Martin | Dušan Katunský, Anna Vašková | Effect of air distribution systems on CO2 concentration | Slovakia | A8: IAQ & perceived air quality | oral-poster |
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| HP1197 | Luther, Mark | Peter Horan, Steven E. Atkinson | Examining CO2 levels in school classrooms | Australia | A8: IAQ & perceived air quality | oral |
|---------------|----------------------|--|--|-----------|---------------------------------|-------------|
| HP0994 | Nakaoka, Hiroko | Hiroshi Seto, Emiko Todaka, Masamichi Hanazato, Michiko Shimoda, Chisato Mori | Aging variation in indoor air quality at experimental sites in Chemiless Town | Japan | A8: IAQ & perceived air quality | oral |
| <u>HP0893</u> | Pagel, Érica | José Laerte Boechat, Marília Martins Nishikawa, Cristina Engel De Alvarez, Neyval C. Reis Júnior, Jane M. Santos | Indoor air exposure to fungi at the Brazilian Antarctic Station | Brazil | A8: IAQ & perceived air quality | oral-poster |
| <u>HP0858</u> | Pagel, Érica | Sandra P Beghi, Cristina Engel De Alvarez, Neyval C. Reis Júnior, Paulo Wagnner P. Antunes, Sérvio Túlio Cassini, Jane M. Santos | Impact of human activities and the building materials in the concentration of aldehydes in the Comandante Ferraz Antarctic station | Brazil | A8: IAQ & perceived air quality | oral |
| HP1005 | Plesner, Christoffer | Karsten Duer | Evaluation of the indoor air quality in a single family Active house | Denmark | A8: IAQ & perceived air quality | oral |
| <u>HP0582</u> | Sacks, Dana | Derek G. Shendell | Case study: ventilation and thermal comfort parameter assessment of a local private gym in a retrofitted industrial building in central NJ | USA | A8: IAQ & perceived air quality | oral-poster |
| HP0506 | Strøm-Tejsen, Peter | Pawel Wargocki, David P. Wyon, Anna Kondracka | The effect of air quality on sleep | Denmark | A8: IAQ & perceived air quality | oral |
| <u>HP0280</u> | Turunen, Mari | Oluyemi Toyinbo, Tuula Putus, Aino Nevalainen, Richard Shaughnessy, Ulla Haverinen- Shaughnessy | Assessment of school level prevalence of symptoms using questionnaire | Finland | A8: IAQ & perceived air quality | oral |
| <u>HP0031</u> | Wang, Jun | Enshen Long, Xu Zhang | Ventilation and pollutants concentration requirements under combined pollution caused by human metabolism and building material | China | A8: IAQ & perceived air quality | oral-poster |
| <u>HP0796</u> | Wang, Zhaojun | Rui Tang, Jing Ren | Study on PM2.5 and PM10 in offices in Harbin, China | China | A8: IAQ & perceived air quality | oral |

| <u>HP0972</u> | Fukuda, Miwa | Jun Munakata | What kind of residents' motivations to improve lighting environment leads to energy-saving at home? | Japan | A9: Indoor air acoustics and lighting | oral-poster |
|---------------|-------------------|---|---|---------|---------------------------------------|-------------|
| <u>HP0734</u> | Iwata, Toshie | Tomoko Taniguchi, Takumi Wakimoto, Ryohei Mase, Tsuyoshi Ito, Daisuke Hirai, Masahiro Sato, Setsuko Yoshino | Change in office lighting from new construction to existing building | Japan | A9: Indoor air acoustics and lighting | oral |
| <u>HP1245</u> | Lee, Jeehwan | Jae D. Chang | Influence of vent perforation on the ventilation and acoustical performances of double skin facades | USA | A9: Indoor air acoustics and lighting | oral |
| <u>HP0682</u> | Liao, Huey-Yan | Ruey-Lung Hwang, Wen-Mei Shih, Chen-Peng Chen | Indoor environmental quality in green buildings under energy-efficient power management | Taiwan | A9: Indoor air acoustics and lighting | oral-poster |
| <u>HP0224</u> | Nagano, Kazuo | Tetsumi Horikoshi | Development of equi-comfort charts constituted with temperature and noise at 150 and 3 lx | Japan | A9: Indoor air acoustics and lighting | oral-poster |
| <u>HP0476</u> | Sun, Chanjuan | Zhiwei Lian | The effect of lighting conditions on visual comfort | China | A9: Indoor air acoustics and lighting | oral |
| HP1039 | Taniguchi, Tomoko | Toshie Iwata, Mina Watanbe | Effect of living room LED lighting controlled by occupants on circadian rhythm and energy saving | Japan | A9: Indoor air acoustics and lighting | oral |
| <u>HP0251</u> | Toftum, Jørn | Kristine Hillig, Søren Peter Lund, Per M. Nielsen, Jesper Kristiansen | Association between noise levels and CO2 concentrations in classrooms | Denmark | A9: Indoor air acoustics and lighting | oral |

| <u>HP0903</u> | Almeida-Silva, Marina | Tiago Faria, Susana M. Almeida And Hubert T. Wolterbeek | Human exposure to air pollutants: personal cloud phenomenon | Portugal | A10: Public health and exposure studies | oral-poster |
|---------------|------------------------|--|--|-------------|---|-------------|
| <u>HP1374</u> | Bluyssen, Philomena | | How and why do people respond to indoor environmental stressors? | Netherlands | A10: Public health and exposure studies | oral |
| <u>HP0178</u> | Chang, Che-Jung | Shu-Fang Cheng, Shih-Wei Tsai | Indoor air quality in hairdressing salons in Taipei | Taiwan | A10: Public health and exposure studies | oral-poster |
| <u>HP0719</u> | Che, Wenwei | H. Christopher Frey, Alexis K.H. Lau, Jimmy C.H. Fung | Geographic and seasonal variations in air exchange rate and their impacts on the estimation of children's exposure to ambient PM2.5 | Hong Kong | A10: Public health and exposure studies | oral |
| <u>HP0843</u> | Deng, Qihong | Chan Lu | Effects of early life exposure to ambient air pollution on asthma among preschool children in China: An industrial environment cannot be overlooked | China | A10: Public health and exposure studies | oral |
| HP0845 | Deng, Qihong | Chan Lu | Increased ambient temperature and risk of preterm birth: hot summer nights cause high risk? | China | A10: Public health and exposure studies | oral |
| <u>HP0062</u> | Dieudonné, Nanfa | Atogho T. Barbara, Ndonwi E. Ngwa, Fopa L.G. Bertrand | Environmental and health risk associated with the dissemination of Persistent Organic Pollutants (POPs) in Yaounde | Cameroon | A10: Public health and exposure studies | oral |
| <u>HP1097</u> | Dott, Wolfgang | Bülent İzmit, Nicole Nowak, Sabrina Michael | Terpene induced toxic effects in human lung cells | Germany | A10: Public health and exposure studies | oral |
| HP0160 | Du, Zhengjian | Jinhan Mo, Yinping Zhang | Risk assessment of population exposure to volatile organic compounds and carbonyls in urban China | China | A10: Public health and exposure studies | oral |
| <u>HP0131</u> | Gall, Elliott | Jin Zhou, Victor Chang, William Nazaroff | Indoor exposure to outdoor pollution in a tropical environment | Singapore | A10: Public health and exposure studies | oral |
| <u>HP1183</u> | Gudmundsson, Anders | Maria Albin, Ulla B.K. Andersson, Eva Assarsson, Anna Axmon, Lars Barregård, Margareta Berglund, Mats Bohgard, Karin Broberg, Jonas Brunskog, Inger Hagerman, Bo A.G. Jönsson, Monica Kåredal, Patrik Nilsson, Kai Österberg, Joakim Pagels, Torben Poulsen, Jenny Rissler, Leo Stockfelt, Gerd Sallsten, Yiyi Xu, Aneta Wierzbicka | Health effects of combined exposure to diesel exhaust and traffic noise | Sweden | A10: Public health and exposure studies | oral-poster |
| <u>HP1162</u> | Huang, Chun-nan | Wei-Lun Lee, Hong-Bin Cho, Chia-Wei Lee | Comparative assessment of children's exposure to formaldehyde in schools, kindergartens and dwellings | Taiwan | A10: Public health and exposure studies | oral-poster |
| HP0784 | Hwang, Yunhyung | Kiyoung Lee | Personal exposures to particulate matters in various microenvironments and their contributions in Seoul population | Korea South | A10: Public health and exposure studies | oral-poster |
| HP0042 | Kadiri, Shamusideen | Dakwak L. Sells, Nosa Ukpomwan, Taofik I. Salau | Indoor environmental quality in multi storey office buildings and its implication on the health and safety of workers. Evaluation of Lagos State Government Administrative buildings in Nigeria | Nigeria | A10: Public health and exposure studies | oral |
| HP0109 | Kakitsuba, Naoshi | | Effect of morning bright light after awake on morning rise in core temperature | Japan | A10: Public health and exposure studies | oral |

| <u>HP1142</u> | Kim, Minsik | Ryohji Ohba, Masamichi Oura, Shinsuke Kato | Study on long-term radiation exposure analysis after the Fukushima Dai-ichi nuclear power plant accident: application of the EU long-term radiation exposure model (ERMIN) | Japan | A10: Public health and exposure studies | oral |
|---------------|--------------------|---|--|-------------|---|-------------|
| HP0106 | Laverge, Jelle | Arnold Janssens | The impact of occuluding bedding arrangements on rebreathing and physiological responses to it | Belgium | A10: Public health and exposure studies | oral |
| HP0377 | Lee, Jae Young | Jong Bum Kim, Gwang-Jae Lee, Seonghee Ryu, Gwi-Nam Bae | Indoor air quality at home of children with atopic dermatitis and their exposure to traffic-related air pollutants | Korea South | A10: Public health and exposure studies | oral |
| <u>HP0378</u> | Lendowski, Luba | | "Integration of longterm MRSA carriers in communities" | Germany | A10: Public health and exposure studies | oral |
| <u>HP0820</u> | Leung, Nancy | James J. Mcdevitt, Kwok-Hung Chan, Hui-Ling Yen, Dennis K.M. Ip, Yuguo Li, Gabriel M. Leung, Joseph S.M. Peiris, Wing-Hong Seto, Donald K. Milton, Benjamin J. Cowling | Reduction of influenza virus shedding in human bioaerosols by surgical face masks | Hong Kong | A10: Public health and exposure studies | oral-poster |
| HP0151 | Li, Li | Jinquan Li, Xu Yang | Dermal and oral exposure to dibutyl phthalate induced lung damage in Balb/C mice | China | A10: Public health and exposure studies | oral |
| <u>HP1275</u> | Li, Linyan | Gary Adamkiewicz, Yinping Zhang, John D. Spengler, Fang Qu, Jan Sundell | Effect of traffic exposure on sick building syndrome symptoms among guardians of preschool children in Beijing, China | China | A10: Public health and exposure studies | oral |
| <u>HP1218</u> | Lin, Chi-Chi | Verónica Beatriz Lima Pappaseit, Hsiao Ying Cheng | Personal exposure to air pollutants at lotus pond during Wannian Folklore Festival | Taiwan | A10: Public health and exposure studies | oral |
| <u>HP1271</u> | Lindström, Cecilia | Laura Von Kobyltezki, Maria U. Hallerbäck, Christian H. Lindh, Bo A. Jönsson, Malin Knutz, Huan Shu, Carl-Gustaf Bornehag | Perfluorinated compounds in serum from 2,373 pregnant women in Sweden | Sweden | A10: Public health and exposure studies | oral |
| <u>HP1056</u> | Logue, Jennifer | Max H. Sherman, Brett C. Singer | A method for quantifying the acute health impacts of residential non-biological exposures via inhalation | USA | A10: Public health and exposure studies | oral |
| HP0112 | Ma, Ping | Biao Yan, Yang Xu | Di-iso-nonyl phthalate oral exposure of Kunming mice induces hepatic and renal tissue injury | China | A10: Public health and exposure studies | oral |
| <u>HP1034</u> | Mandin, Corinne | Serena Fossati, Nuno Canha, Andrea Cattaneo, Eric Cornelissen, Otto Hänninen, Yvonne De Kluizenaar, Viktor G. Mihucz, Eduardo De Oliveira Fernandes, Matti Peltonen, Ioannis Sakellaris, Dikaia Saraga, Gabriela Ventura, Rosanna Mabilia, Erica Perreca, Tamás Szigeti, Paolo Carrer, John Bartzis | Indoor air quality in office buildings in Europe: the OFFICAIR Project | France | A10: Public health and exposure studies | oral |
| HP1181 | Marini, Sara | Patrik Nilsson, Aneta Wierzbicka, Monica Kåredal, Eva Blomgren, Jörn Nielsen, Giorgio Buonanno, Anders Gudmundsson | Airborne exposure of hairdressers during hair bleaching: a human chamber exposure study | Sweden | A10: Public health and exposure studies | oral-poster |

| <u>HP0384</u> | Mentese, Sibel | Muserref T. Otkun, Coskun Bakar, Nihal A. Mirici, Sibel Cevizci, Osman Cotuker, Deniz Tasdibi, Elif Palaz | Comparison of exposure to indoor air pollution in different towns of Çanakkale, Turkey | Turkey | A10: Public health and exposure studies | oral |
|---------------|-------------------|--|--|-------------|---|-------------|
| <u>HP0885</u> | Nastase, Ilinca | Cristiana V. Croitoru, Andreea A. Vartires, Mihai Gustiuc, Walter Bosschaerts | Measurement and questionnaires survey of the indoor environment quality in an emergency hospital from Bucharest | Romania | A10: Public health and exposure studies | oral-poster |
| <u>HP1143</u> | Park, Duckshin | Yong Il Lee, Do Yeon Hwang, Mona Loraine Barabad, Wonseok Jung, Wootae Jeong, Soon-Bark Kwon, Youngmin Cho, Ki-Chul Cho, Kiyoung Lee | or transportation | Korea South | A10: Public health and exposure studies | oral-poster |
| <u>HP0443</u> | Parker, Kristia | Glenn C. Morrison, Melissa M. Buechlein | New routes of human exposure to methamphetamine from residential meth labs: post-remediation accumulation from air to skin oil | | A10: Public health and exposure studies | oral |
| <u>HP0583</u> | Sacks, Dana | Derek G. Shendell | Case study: particle concentrations at a local private gym dependent on mechanical ventilation in a retrofitted industrial building in central NJ | USA | A10: Public health and exposure studies | oral |
| <u>HP1277</u> | Shu, Huan | Bo A.G. Jönsson, Christian H. Lindh, Malin Knutz, Eewa Nånberg, Åke Svensson, Carl-Gustaf Bornehag | PVC flooring in the home is related to urinary levels of phthalates in Swedish pregnant women in the SELMA Study | Sweden | A10: Public health and exposure studies | oral |
| <u>HP1191</u> | Wierzbicka, Aneta | Gabriel Bekö, Jørn Toftum, Geo Clausen, Steffen Loft, Dorina Gabriela Karottki, Andreas Massling, Tareq Hussein | A model for estimating particle concentration indoors – based on information from occupants' questionnaires, indoor sources emission factors, outdoor concentration and building characteristics | Sweden | A10: Public health and exposure studies | oral |
| <u>HP1115</u> | Wu, Chih-Da | J.G. Cedeño-Laurent, Eileen Mcneely, Gary Adamkiewicz, Francesca Dominici, Shih-Chun Candice Lung, Huey-Jen Su, John D Spengler | Association between surrounding greenness and student performance using remote sensing | Taiwan | A10: Public health and exposure studies | oral |
| <u>HP0441</u> | Xia, Qian | Xiaoping Liu, Jianlei Niu, K.C.S. Kwok | Effects of building lift-up design on pedestrian pollutant dispersion | Hong Kong | A10: Public health and exposure studies | oral |
| HP0530 | Xiong, Jing | Chanjuan Sun, Zhiwei Lian | Investigation of human response to temperature step changes | China | A10: Public health and exposure studies | oral-poster |
| <u>HP0606</u> | Zhang, Huadi | Yili Zhao, Hua Qian, Xiaohong Zheng, Jan Sundell | Associations between children's rhinitis and indoor air pollutants in kindergartens in Nanjing | China | A10: Public health and exposure studies | oral |
| <u>HP0246</u> | Zhang, Xiaojing | Pawel Wargocki, Zhiwei Lian | Literature survey on the effects of pure carbon dioxide on health, comfort and performance | China | A10: Public health and exposure studies | oral-poster |
| HP0335 | Zhou, Qi | Naiping Gao, Hua Qian | CFD study on the wind-induced transmission of gaseous pollutants between flats in multistory residential buildings | China | A10: Public health and exposure studies | oral |

| <u>HP0909</u> | Almeida-Silva, Marina | Tiago Faria, Dikaia Saraga, Thomas Maggos, Hubert T. Wolterbeek , Susana M. Almeida | Source apportionment of indoor PM10 in elderly care center | Portugal | B1: Source of indoor air pollutants | oral |
|---------------|-----------------------|--|---|-------------|-------------------------------------|-------------|
| <u>HP0617</u> | Andersen, Helle | Helene B. Klinke, Lis W. Funch, Lars Gunnarsen | Emission of formaldehyde from furniture: assessment of its impact on indoor air quality | Denmark | B1: Source of indoor air pollutants | oral |
| <u>HP0625</u> | Boor, Brandon | Yirui Liang, Neil E. Crain, Helena Järnström, Atila Novoselac, Ying Xu | New and used crib mattresses as a source of volatile organic compounds, phthalate and alternative plasticizers, and other chemical species in the infant sleep microenvironment | USA | B1: Source of indoor air pollutants | oral |
| HP0675 | Chen, Ailu | Victor W.C. Chang | Correlations between indoor particle and phthalate concentrations | Singapore | B1: Source of indoor air pollutants | oral |
| <u>HP0677</u> | Chen, Cheng chen | Kun Chih Huang, Ching Chang Lee | A comparison of the reduction Efficiency of indoor formaldehyde and VOCs concentration by using ventilation removal and SBMs | Taiwan | B1: Source of indoor air pollutants | oral |
| <u>HP1148</u> | El-Bagir, Sohair | Godwin A. Ayoko, Serge Kokot | Multi-criteria ranking of house dust samples from residential dwellings | Australia | B1: Source of indoor air pollutants | oral |
| <u>HP0573</u> | Emmerich, Steven | Liangzhu (Leon) Wang, Andrew K. Persily | Measured carbon monoxide emission rates from stock and reduced- emission prototype portable generators | USA | B1: Source of indoor air pollutants | oral |
| <u>HP1180</u> | Fang, Jung-Tang | Wei-Lun Lee, Chitsan Lin, Chia-Wei Lee | Indoor-outdoor air concentrations of organic air toxics in the vicinity of a petrochemical industrial complex in Kaohsiung, Taiwan | Taiwan | B1: Source of indoor air pollutants | oral-poster |
| <u>HP0832</u> | Faure, Eddie | Loïc Paillat, Guénaël Thiault, Ghislaine Goupil, Laurence Durupt, Claudie Delaunay | Nail bar impact on indoor air quality | France | B1: Source of indoor air pollutants | oral-poster |
| <u>HP0022</u> | Havermans, John | Marc M.G. Houtzager | Emission of volatiles from Spray Polyurethane Foam (SPF) insulated crawl spaces | Netherlands | B1: Source of indoor air pollutants | oral-poster |
| HP1236 | Hofbauer, Wolfgang | Nicole Krueger, Florian Mayer, Klaus Breuer | Isopleth systems of insulation materials | Germany | B1: Source of indoor air pollutants | oral |
| <u>HP1237</u> | Hofbauer, Wolfgang | Nicole Krueger, Anna Renzl, Florian Mayer, Klaus Sedlbauer, Klaus Breuer | Towards a better understanding of wood decay | Germany | B1: Source of indoor air pollutants | oral |
| <u>HP1083</u> | Isaxon, Christina | Anders Gudmundsson, Erik Nordin, Leif Lönnblad, Andreas Dahl, Gunilla Wieslander, Mats Bohgard, Aneta Wierzbicka | Contribution of indoor generated submicrometer particles to residential exposure | Sweden | B1: Source of indoor air pollutants | oral |
| <u>HP0499</u> | Jian, Yating | Jun Gao, Cao Changsheng, Weimin Xiao, Xinzhong Lai, Yanlin Gao | Emission of particle-bound polycyclic aromatic hydrocarbons during Chinese cooking in a kitchen chamber | China | B1: Source of indoor air pollutants | oral |
| <u>HP0531</u> | Kim, Hyun-tae | Shin-Ichi Tanabe, Hirokazu Hatano | The concentration of phthalate in settled dust in kindergartens and emission source | Japan | B1: Source of indoor air pollutants | oral |
| <u>HP0973</u> | Kujanpää, Liisa | Sirpa Rautiala, Helmi Kokotti, Marjut Reiman | Indoor air quality in offices adjacent to industrial halls | Finland | B1: Source of indoor air pollutants | oral-poster |

| HP1355 | Langeland, Majbrith | Projectdirector, Rune Ø. Haven, Projectmanager | National investigation of PCB sources as an indoor pollutant in domestic houses, offices, institutions, storage spaces and workshops | Denmark | B1: Source of indoor air pollutants | oral-poster |
|----------------|---------------------|--|--|----------------|-------------------------------------|-------------|
| <u>HP1221</u> | Lazarov, Borislav | Marianne Stranger, Frederick Maes, Eddy Goelen, Adrian Covaci | Flame retardant emission testing from treated products | Belgium | B1: Source of indoor air pollutants | oral-poster |
| HP1139 | Lee, Jeong-Hun | Jungki Seo, Sumin Kim | Development of environment-friendly furnishing materials using tannin resin | Korea South | B1: Source of indoor air pollutants | oral |
| <u>HP1208</u> | Lee, Wei-Lun | Hong-Bin Cho, Jung-Tang Fang, Hsin-Hung Shih, Chia-Wei Lee | Phthalates in Indoor dust and outdoor soil in the vicinity of a petrochemical industrial complex in Southern Taiwan | Taiwan | B1: Source of indoor air pollutants | oral-poster |
| <u>-IP0520</u> | Liang, Yirui | Ying Xu | An improved method for measuring and characterizing phthalate emissions from building materials and its application to exposure assessment | USA | B1: Source of indoor air pollutants | oral |
| HP0276 | Lin, Chi-Chi | Shu-Chen Hsu | Carbonyls and BTEX emissions from selected building materials | Taiwan | B1: Source of indoor air pollutants | oral |
| HP1147 | Lorentzen, Johnny | Maria Nilsson, Gunnar Johanson | Chloroanisoles represent a common indoor air quality problem in Sweden – sensitive methods to detect the malodorous chemicals in air and materials | Sweden | B1: Source of indoor air pollutants | oral-poster |
| HP0223 | Ma, Qiang | Zhenqian Chen, Bo Xu | Lattice Boltzmann simulations for VOCs migration in porous building materials reconstructed by stochastic fractal theory | China | B1: Source of indoor air pollutants | oral |
| HP1333 | Mason, Mark | Ken Krebs, Mark Barnes, Dale Greenwell, Xiaoyu Liu, Charles Bevington, Carol Hetfield, Katherine Sleasman, Nancy Roache, Gary Folk, Gunnar Skarping, Marianne Dalene, Daniel Karlsson | Development of test systems for characterizing emissions from Spray Polyurethane Foam Insulation (SPFI) products | USA | B1: Source of indoor air pollutants | oral |
| <u> IP0412</u> | Melymuk, Lisa | Pernilla Bohlin, Šimon Vojta, Martina Krátká, Jana Klánová | Distribution of legacy and emerging semi-volatile organic contaminants in a residential environment | Czech Republic | B1: Source of indoor air pollutants | oral |
| <u> </u> | Morawska, Lidia | Mandana Mazaheri, Samuel Clifford, Farhad Salimi, Rusdin Laiman, Leigh R. Crilley | Indoor air pollution sources and exposures in primary schools: UPTECH Synthesis | Australia | B1: Source of indoor air pollutants | oral |
| HP0194 | Park, Seonghyun | Sunwoo Lee, Jae Hun Jo, Janghoo Seo | Evaluation on inhaled air quality in indoor environment applying sorptive building materials | Korea South | B1: Source of indoor air pollutants | oral-poster |
| HP1012 | Persily, Andrew | Steven Emmerich, Yanling Wang, Brian Polidoro | Simulation study of carbon monoxide exposure from portable generators in U.S. residences | USA | B1: Source of indoor air pollutants | oral |
| HP0487 | Plaisance, Herve | Alodie Blondel, Valerie Desauziers, Pierre Mocho | An original method using a passive flux sampler to characterize the gas-phase boundary layer on the surface of indoor materials | France | B1: Source of indoor air pollutants | oral |
| <u>-IP0174</u> | Pu, Zhongnan | Lihui Huang, Weiping Zhao, Yang Yue, Mengyan Gong, Jinhan Mo, Jan Sundell, Yinping Zhang | Comparison of contribution to people health risk from indoor and outdoor carbonyls sources in Beijing, China | China | B1: Source of indoor air pollutants | oral-poster |
| <u> HP0510</u> | Qi, Meiwei | Xiaofeng Li, Louise B. Weschler, Jan Sundell | CO2 generation rate in Chinese people | China | B1: Source of indoor air pollutants | oral |
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| <u>HP0981</u> | Rackes, Adams | Tom Ben-David, Michael S. Waring | Statistical models of whole-building volatile organic compound emission rates in U.S. offices | USA | B1: Source of indoor air pollutants | oral |
|---------------|--------------------|---|---|---------|-------------------------------------|------|
| <u>HP1036</u> | Sleiman, Mohamad | Jennifer M. Logue, James F. Pankow, Lara A. Gundel, Hugo Destaillats | Chemical characterization and health impact assessment of VOCs and particles in thirdhand tobacco smoke | USA | B1: Source of indoor air pollutants | oral |
| <u>HP1332</u> | Stranger, Marianne | John Bartzis, Peder Wolkoff, George Efthimiou, Evangelos Tolis, Frederick Maes, Asger Norgaard, Gabriela Ventura, Krystallia Kalimerii, Eddy Goelen, Eduardo De Oliveira Fernandes | Consumer product emission testing in EPHECT | Belgium | B1: Source of indoor air pollutants | oral |
| HP0102 | Sun, Xiao | Xudong Yang | Experimental study Volatile Organic Compounds (VOCs) in normal human exhaled breath | China | B1: Source of indoor air pollutants | oral |
| HP1295 | Tian, Yilin | Andrea. R. Ferro | Resuspension of submicron particles due to human walking | USA | B1: Source of indoor air pollutants | oral |
| HP0333 | Wang, Chao | Xudong Yang, Jun Guan, Kai Gao, Zheng Li | Source apportionment of volatile organic compounds in aircraft cabin | China | B1: Source of indoor air pollutants | oral |
| HP0201 | Xiang, Jianbang | Jinhan Mo, Yinping Zhang, Mu Li | Dynamic preparation of multi-component volatile organic compounds via microsyringe pump | China | B1: Source of indoor air pollutants | oral |
| HP0650 | Xiu, Guangli | Xin Wu, Lina Wang, Fangfang Wang, Yuankai Zhang, Bizheng Yu, Zhangyuanhui Wang, Yuanxiang Chen, Fangyuan Xu, Laiming Wu | Investigation of particulate matter in a museum in Shanghai, China | China | B1: Source of indoor air pollutants | oral |
| HP1313 | Xu, Bo | Zhenqian Chen, Qiang Ma | Effect of high-voltage electric field on formaldehyde diffusion within building materials | China | B1: Source of Indoor air pollutants | oral |
| HP0475 | Zaitseva, Nina | Irina May, Nadezhda Kriulina | Simulation and instrumental examination of indoor air for formaldehyde, styrene and ethylbenzene, migrating from building and home decoration materials in the presence of combined use | Russia | B1: Source of Indoor air pollutants | oral |
| HP0248 | Zhang, Qin | Xiao Sun, Xudong Yang, Jan Sundell | A pilot study of volatile organic compounds emitted by the whole body, exclusive of exhaled breath | China | B1: Source of indoor air pollutants | oral |

| HP0892 | Almand-Hunter, Berkeley | Joanna Gordon, Nick Masson, Michael P. Hannigan, Shelly L. Miller | Dust exposure in indoor climbing facilities | USA | B2: Particles | oral-poster |
|---------------|----------------------------|---|--|-------------|---------------|-------------|
| HP0326 | Apostoloski, Zoran | Silvia Vilcekova | Indoor concentrations of particulate matters at domestic homes | Macedonia | B2: Particles | oral-poster |
| HP0368 | Arpino, Fausto | Giorgio Buonanno, Gino Cortellessa, Aldo Russi, Mauro Scungio, Paolo Vigo | Numerical assessment of human particle exposure from cooking activities | Italy | B2: Particles | oral |
| <u>HP0627</u> | Boor, Brandon | Joonas Koivisto, Kaarle Hämeri, Atila Novoselac, Ying Xu | Infant crawling-induced resuspension of settled floor dust | USA | B2: Particles | oral |
| <u>HP1068</u> | Cai, Wei | Hiroshi Yoshino, Shengwei Zhu, U Yanagi, Zhubing Jing | Particulate matter air pollution in children's residential environments in Wuhan, China | China | B2: Particles | oral |
| <u>HP1064</u> | Canha, Nuno | Susana M. Almeida, Maria C. Freitas, Hubert T. Wolterbeek | Indoor particles in scholar environments by passive deposition methodology: applicability and source apportionment | Portugal | B2: Particles | oral |
| <u>HP1224</u> | Chernyi, Konstantin | | A methodology for corona air ionizer usage when conducting correction of indoor air ion composition | Russia | B2: Particles | oral |
| <u>HP0653</u> | Cui, Mingyu | J.S. Park | Deposition and resuspension of particles on supply air duct in mechanically ventilated residential buildings | Korea South | B2: Particles | oral-poster |
| <u>HP1301</u> | Da, Guillaume | Evelyne Gehin, Benoit Bonnet, Stéphane Delaby, Sébastien Ritoux, Thi-Lan Ha, Enric Robine | A multi-scale experimental approach for studying emission, transport, and deposition of respiratory droplets in indoor environments | France | B2: Particles | oral |
| <u>HP1238</u> | Fan, Li | Song Pan, Jiaping Liu, Jingchao Xie, Jinshun Wu, Zuo Chen, Xinru Wang | Variation law of PM2.5 in subway station of northern area in China | China | B2: Particles | oral |
| <u>HP1387</u> | Hu, Shih-Cheng | Ivy Shiue, Angus Shiue, Yu-Min Hsu, Yi-Sung Ke | Validation of leak test models for pharmaceutical isolators | Taiwan | B2: Particles | oral |
| HP0190 | Huang, Lihui | Weiping Zhao, Mu Li, Zhongnan Pu, Jan Sundell, Yinping Zhang | Relationship between indoor and outdoor PM2.5 for residential buildings in Beijing, China | China | B2: Particles | oral |
| <u>HP1167</u> | Hwang, Do Yeon | Duck-Shin Park, Mona Loraine M. Barabad, Shin D.O. Kim | Component analysis of nano particles in subway tunnels | Korea South | B2: Particles | oral-poster |
| <u>HP0349</u> | Ji, Wenjing | Bin Zhao | Comparison of contribution of outdoor particles between indoor sources to indoor PM2.5 concentration and associated exposure: a preliminary modeling study | China | B2: Particles | oral |
| <u>HP0340</u> | Jiang, Yu | Lin Lu, Ke Sun | Study of different self-cleaning technologies in reducing particle deposition under dry environment | Hong Kong | B2: Particles | oral |
| <u>HP1059</u> | Jung, Chien-Cheng | Ching-Chang Lee, Chia-Wei Lee, Huey-Jen Su | Sources, elemental composition and health risks of fine particle in office spaces | Taiwan | B2: Particles | oral-poster |
| <u>HP1391</u> | Li, Xiangdong | Yihuan Yan, Jiyuan Tu | Comparison of the Eulerian-Eulerian and Eulerian- Lagrangian models for simulating particulate contaminant transport in indoor spaces | Australia | B2: Particles | oral |
| <u>HP0305</u> | Liaud, Céline | Maurice Millet, Thierry Dintzer, Valérie Tschamber, Gwénaëlle Trouve, Stéphane L.E. Calvé | Development of a 3-stage cascade impactor sampling method to measure particle-bound PAHs in indoor air | France | B2: Particles | oral |

| HP0423 | Mei, Xiong | Tengfei (Tim) Zhang, Shugang Wang | Measuring resuspension of deposited particles induced by sneezing jets | China | B2: Particles | oral |
|---------------|--------------------|---|--|-------------|---------------|-------------|
| <u>HP0803</u> | Mercier, Fabien | Erwann Gilles, Gaëlle Raffy, Philippe Glorennec, Corinne Mandin, Barbara L.E. Bot | A multi-residue method for the simultaneous analysis of several classes of semi-volatile organic compounds in airborne particles | France | B2: Particles | oral |
| <u>HP0863</u> | Merzsch, Stephan | utomo S. Wasisto, Ina Kirsch, Erwin Peiner, Erik Uhde | An integrated personal monitor for engineered nanoparticles | Germany | B2: Particles | oral-poster |
| <u>HP1096</u> | Michael, Sabrina | Wolfgang Dott | Toxic effects and chemical characteristics of ambient particulate matter | Germany | B2: Particles | oral |
| <u>HP0325</u> | Offermann, Francis | Aaron Eagan, Aidan C. Offermann, Lewis J. Radonovich | Infectious disease aerosol exposures with and without surge control ventilation system modifications | USA | B2: Particles | oral |
| HP0951 | Orch, Zeineb | Michael Waring, Brent Stephens | Predictions and determinants of size-resolved particle infiltration factors in single-family homes in the U.S. | USA | B2: Particles | oral |
| HP0865 | Ou, Cuiyun | Qihong Deng, Jiao Chen | Numerical simulation of airflow and particle deposition in the whole human tracheobronchial airways | China | B2: Particles | oral |
| <u>HP1141</u> | Park, Duckshin | Mona Loraine Barabad, Yong Il Lee, Wonseok Jung, Wootae Jeong, Soon-Bark Kwon, Youngmin Cho | Particulate matters levels in subway | Korea South | B2: Particles | oral |
| <u>HP0905</u> | Polednik, Bernard | Marzenna Dudzińska, Izabela Bilska | Particle concentration changes during masses in a church | Poland | B2: Particles | oral-poster |
| <u>HP0569</u> | Qian, Jing | Jordan Peccia, Andrea R. Ferro | Walking-induced particle resuspension in indoor environments: a review | USA | B2: Particles | oral |
| HP0657 | Seo, Chung-Kook | Byung-Duk Seo, Jun-Seok Park | A field study on particle resuspension from supply air duct in mechanically ventilated residential buildings | Korea South | B2: Particles | oral-poster |
| <u>HP0945</u> | Shi, Shanshan | Shanshan Shi, Bin Zhao | Deposition velocity of fine and ultrafine particles onto manikin surfaces in different air speed indoor environments | China | B2: Particles | oral-poster |
| HP1267 | Spilak, Michal | Marie Frederiksen, Barbara Kolarik, Lars Gunnarsen | Evaluation of contribution of human activities indoors to total concentration of UFP indoors | Denmark | B2: Particles | oral |
| HP0624 | Sul, Kyung | Yilin Tian, Goodarz Ahmadi, Andrea R. Ferro | Effects of human walking factors on particle resuspension fraction | USA | B2: Particles | oral-poster |
| <u>HP0079</u> | Wang, Jinliang | Tin-Tai Chow, Fujiang Chen, Shuli Wang, Qiang Guo, Jianfang Chen, Li Tao, Wei Ji | Dynamic investigation on bacteria-carrying particles distribution in operating theatre under the walking impact of a scrub nurse | China | B2: Particles | oral |
| HP0684 | Zhang, Jinping | Angui Li, Desheng Li, Jianong Li | Study on polydisperse particle deposition in a wind tunnel | China | B2: Particles | oral-poster |
| <u>HP0940</u> | Zou, Zhijun | Chen Huang, Hao Li, Jiao Cai, Xin Wang | Experimental study for the effect of building air tightness on indoor particle concentration | China | B2: Particles | oral |

| HP0622 | Apel, Christina | Erik Uhde | Sensitive and fast determination of organic acids in indoor air | Germany | B3: Control of indoor environment | oral-poster |
|----------------|--------------------------------|---|---|----------------|-----------------------------------|-------------|
| <u>HP0876</u> | Bolashikov, Zhecho Dimitrov | Maria I. Barova, Arsen K. Melikov | Control of exposure to exhaled air from sick occupant with wearable personal exhaust unit | Denmark | B3: Control of indoor environment | oral |
| HP0855 | Boulet, Sylvain | Jean-Luc Kouyoumji | Multi-criteria decision analysis applied to the control of thermal, olfactory, visual and acoustic indoor environment | France | B3: Control of indoor environment | oral |
| HP0321 | Brandt, Stefan | Martin Kriegel | Pressure maintenance and air quality control in rooms with higher physical boundary conditions | Germany | B3: Control of indoor environment | oral |
| HP0851 | Cable, Axel | Mads Mysen, Kari Thunshelle | Can demand controlled ventilation replace space heating in office buildings with low heating demand? | Norway | B3: Control of indoor environment | oral-poster |
| HP0522 | Chan, Wanyu | Toshifumi Hotchi, William J. Fisk | Automated control of ventilation and filtration to improve indoor air quality in residences | USA | B3: Control of indoor environment | oral |
| HP0050 | Chang, Chia-Wen | Chen-Yi Lin, Yi-Hsing Lin, Hsin-Ta Hsueh, Hsin Chu | Ce, S Co-doped TiO2 for photocatalyst degradation of dimethyl sulfide under visible light: parameters study | Taiwan | B3: Control of indoor environment | oral-poster |
| <u> IP0466</u> | Chang, Xiaomin | Zhichao Deng, Xiaobo Li, Ping Chen | Integrated indoor environment control system for hotels | China | B3: Control of indoor environment | oral |
| <u> IP1016</u> | Chen, Jianchang | Chen Huang, Liugen Lv, Zhijun Zou | The experimental method to separate the convective heat transfer and radiant heat transfer in heat conduction of the wall | China | B3: Control of indoor environment | oral-poster |
| HP0137 | Cheng, Rui | John Little, Wenjuan Wei, Yinping Zhang | Simultaneous and effective control of indoor climate and air quality: framework and preliminary evaluation | China | B3: Control of indoor environment | oral |
| <u> IP0234</u> | Cheng, Yong | Zhang Lin, Weiqin Wu, Ting Yao | Performance evaluation of stratum ventilation with slot diffuser using CFD | Hong Kong | B3: Control of indoor environment | oral |
| <u>HP1046</u> | Chuah, Yew | Shih P. Chuang | Air distribution and draught rate analysis for chilled beam cooling system | Taiwan | B3: Control of indoor environment | oral |
| <u>HP1273</u> | Collins, Thomas | Alison G. Kwok, Sophia E. Duluk | Visible ventilation: validating & illustrating the performance of a hybrid ventilation system in the united states | USA | B3: Control of indoor environment | oral |
| HP0339 | Fraňa, Karel | Miloš Müller, Jianshun S. Zhang | The effect of the window temperature on the thermal comfort in a room heated by a floor convector | Czech Republic | B3: Control of indoor environment | oral |
| HP0971 | Fu, Bailin | Yang Lv, Chenguang Liu, Yuhang Shu | Research on fungal microorganisms growth of central air conditioning system under various thermal conditions | China | B3: Control of indoor environment | oral |
| HP0299 | Guglielmino, Maud | Alaa Allouch, Pierre Bernhardt, Christophe A. Serra, Stéphane L.E. Calvé | Progress in the development of a colorimetric analytical method for on-line gaseous formaldehyde detection | France | B3: Control of indoor environment | oral |
| HP0409 | Haugen, Elisabeth | Monica Berner, Maria J. Alonso, Frode Frydelund, Bjarne Malvik | Hygienic and Microbiological (HYGMIC) evaluation of air intake and plants – ten-years-experience | Norway | B3: Control of indoor environment | oral |

| | | | Ventilation case study for improving hygrothermal | | B3: Control of indoor | |
|----------------|-------------------|---|---|-------------|--------------------------------------|-------------|
| <u>HP1081</u> | Honma, Yoshinori | | condition of the emergency temporary housing | Japan | environment | oral-poster |
| <u>HP1341</u> | Huang, Jeng-Min | Fu-Jen Wang, Chen-Ku Li | A numerical investigation of flow and concentration fields in an operation room at low inlet air speed | Taiwan | B3: Control of indoor environment | oral-poster |
| HP1442 | Huang, Pei | Gongsheng Huang | Uncertainty analysis of peak cooling load calculation for HVAC system design | Hong Kong | B3: Control of Indoor Environment | oral-poster |
| HP0871 | Ilacqua, Vito | John Dawson, Michael Breen, Sarany Singer, Ashley Berg | Effects of climate change on residential indoor-outdoor air exchange | USA | B3: Control of indoor environment | oral |
| HP1246 | Jia, Jing bo | Pengyi Zhang | Manganese-based catalysts for ozone decomposition | China | B3: Control of indoor environment | oral-poster |
| HP0482 | Jiang, Hui | Youming Chen, Jian Liu, Zhixiong Ding, Qigao Fu, Changliang Jiang | Self-adaptive control to improve energy efficiency and thermal comfort for variable air volume system | China | B3: Control of indoor environment | oral |
| HP0821 | Kalliomäki, Petri | Pekka Saarinen, Julian W Tang, Hannu Koskela | Airflow patterns through a single hinged and a sliding-door in hospital isolation room | Finland | B3: Control of indoor environment | oral |
| HP1335 | Keller, Markus | Udo Gommel, Alexander Verl | Controlled environments for VOC-sensitive manufacturing processes: from material classification to controlled IAQ in cleanrooms | | B3: Control of indoor environment | oral |
| <u> IP0508</u> | Krajčík, Michal | Angela Simone, Roberta Tomasi, Bjarne W. Olesen | Evaluation of the indoor environment in an office room equipped by displacement ventilation and radiant floor cooling | Slovakia | B3: Control of indoor environment | oral |
| HP0618 | Kulve, Marije | Marcel Loomans, Emelieke Huisman, Helianthe Kort | Indoor air in long term care facilities and spread of infectious diseases | Netherlands | B3: Control of indoor environment | oral |
| HP0826 | Lee, Sihwan | Beungyong Park, Takashi Kurabuchi | The effects of moving objects on the transport of indoor air pollutants | Japan | B3: Control of indoor environment | oral |
| HP0791 | Li, Jinge | Pengyi Zhang | Manganese oxides films loading on activated carbon via insitu reduction for formaldehyde removal at room temperature | China | B3: Control of indoor environment | oral |
| HP1441 | Liao, Yundan | Gongsheng Huang, Yongjun Sun | Uncertainty impacts on reliability and energy-efficiency of chiller sequencing control | China | B3: Control of indoor environment | oral-poster |
| <u>HP0306</u> | Liaud, Céline | Pierre Bernhardt, Stéphane L.E. Calvé | Highlighting indoor physico-chemical processes through the temporal monitoring of VOCs concentrations using an automatic sampler coupled to GC analysis | France | B3: Control of indoor environment | oral-poster |
| HP0047 | Lin, Yi-Hsing | Chia-Wen Chang, Chen-Yi Lin, Hsin Chu | A characteristic and kinetic study on photo-degradation of dimethyl disulfide by S/Zn co-doped TiO2 under visible light | Taiwan | B3: Control of indoor environment | oral-poster |
| HP0397 | Luengas, Angela | Cécile Hort, Vincent Platel, Sabine Sochard, Ana Elias, Astrid Barona, Michel Ondarts, Anne Reguer, Gorka Gallastegui | Coupling biofiltration and adsorption to treat indoor VOCs | France | B3: Control of indoor environment | oral |
| HP0213 | Luo, Xilian | Xiangzhao Meng, Tianyu Li, Zhaolin Gu | Measurement and evaluation of a local environmental control system for relics preservation in archaeology museum | China | B3: Control of indoor environment | oral |

| <u>HP0467</u> | Ma, Aiming | Xiaorui Lin, Sumei Liu, Yulong Liu, Hao Li, Yi Jiang | Design strategies for effective fresh air system suitable to residential buildings in China | China | B3: Control of indoor environment | oral-poster |
|---------------|----------------------|--|--|-------------|-----------------------------------|-------------|
| <u>IP0075</u> | Markowicz, Pawel | Lennart Larsson | Improving the indoor air quality in a school building by using a surface emissions trap | Sweden | B3: Control of indoor environment | oral-poster |
| IP1043 | Matsumoto, Hiroshi | Toi Matsuyama, Misato Baba, Yuji Ito, Tomoka Tanishita | Thermal performance of an energy efficient airflow window in buildings | Japan | B3: Control of indoor environment | oral-poster |
| <u>P0767</u> | Matsunaga, Hiroki | Satoru Iizuka, Masaya Okumiya, Gyuyoung Yoon, Hideharu Niwa, Yingli Xuan | Numerical investigation on different operation controls of a multi-split air-conditioning system during a power- saving period | Japan | B3: Control of indoor environment | oral |
| P1509 | Meadow, James | | What's in your personal microbial cloud? | USA | B3: Control of indoor environment | oral |
| P0385 | Mentese, Sibel | Osman Cotuker, Burak Selcuk | Contribution of Rotor-Turbine Ventilator (RTV) on indoor air quality of a cafeteria | Turkey | B3: Control of indoor environment | oral-poster |
| P0480 | Nakai, Satoshi | Jun Kohzaki, Sayaka Murata, Yukio Yanagisawa | A longitudinal study about house characteristics and indoor environment | Japan | B3: Control of indoor environment | oral-poster |
| P1050 | Nam, In-Sick | Hyeon-Ju Oh, Jinman Kim, Jinho Yang, Jong- Ryeul Sohn | Penetration of outdoor particles and NO2 into the building | Korea South | B3: Control of indoor environment | oral-poster |
| P1448 | Offermann, Francis | | Chemical emissions from e-cigarettes: direct and indirect passive exposures | USA | B3: Control of indoor environment | oral |
| P1048 | Oh, Hyeon-Ju | In-Sick Nam, Jinman Kim, Jinho Yang, Jong-Ryeul Sohn | Assessment of particles and bio-aerosols distributed within a building located in heavy traffic area | Korea South | B3: Control of indoor environment | oral |
| P1129 | Ooura, Keisuke | Katsuhiro Urano | High-temperature cooling & low-temperature heating AC system (Part 1). Evaluation of energy saving in an office in Tokyo | Japan | B3: Control of indoor environment | oral |
| P1072 | Qin, Jun | Chen Huang, Xin Wang | Design of salt water model experiment based on large space air-conditioned with low-sidewall air supply and research on energy ratio entrained by medium-height return air grille | China | B3: Control of indoor environment | oral |
| P1103 | Ramalho, Olivier | Guillaume Wyart, Corinne Mandin, Patrice Blondeau, Pierre-André Cabanes, Nathalie Leclerc, Jean-Ulrich Mullot, Guillaume Boulanger, Matteo Redaelli | Association of carbon dioxide with indoor air pollutants and exceedance of health guideline values | France | B3: Control of indoor environment | oral |
| P1019 | Rose, William | Paul W. Francisco, Zachary Merrin | Radon reduction through floor air sealing | USA | B3: Control of indoor environment | oral-poster |
| P1322 | Scutaru, Ana Maria | Christine Daeumling | AgBB strategies for reduction of VOC emissions from indoor products – experiences and progress in harmonisation in Europe | Germany | B3: Control of indoor environment | oral-poster |
| P1051 | Shaughnessy, Richard | Ulla Haverinen-Shaughnessy, Greg Whiteley, Nisha Shakila, Eugene Cole | An assessment of effectiveness of cleaning critical surfaces in elementary schools | USA | B3: Control of indoor environment | oral |
| P1031 | Su, Chunxiao | Josephine Lau, Shawn G. Gibbs | A field test to performance of upper-room UVGI in elementary school | USA | B3: Control of indoor environment | oral |
| P1075 | Tsao, Yung-Chieh | Yaw-Huei Hwang | An intervention study on the absence of the upper respiratory infection in the water-damaged indoor environment of a kindergarten | Taiwan | B3: Control of indoor environment | oral-poster |

| <u>HP0587</u> | Tsuzuki, Hiromasa | Shin-Ichi Tanabe, Yutaka Sato, Mariko Saito | Comfortable thermal environment for people sensitive to cold in housing during summer | Japan | B3: Control of indoor environment | oral |
|----------------|--------------------|---|--|---------|-----------------------------------|-------------|
| <u>HP1130</u> | Urano, Katsuhiro | Keisuke Ooura, Satoru Kuno, Teruyuki Saito | High-temperature cooling & low-temperature heating AC system (Part 2). Evaluation of thermal comfort with all air supplied induction radiant and laminar flow AC | Japan | B3: Control of indoor environment | oral |
| HP0880 | Uth, Simon | Linette Nygaard, Zhecho D. Bolashikov, Arsen K. Melikov, Risto Kosonen, Panu Mustakallio, Ilari Aho | Human response to individually controlled micro environment generated with localized chilled beam | Denmark | B3: Control of indoor environment | oral |
| HP1085 | van Berkel, Samuel | | Limitations of carbon monoxide controlled garage ventilation | Canada | B3: Control of indoor environment | oral |
| HP1421 | Vladykova, Petra | Francesco Errico | Practical investigation of IEQ measurements in an office- retail building | Sweden | B3: Control of indoor environment | oral |
| HP0516 | Wang, Fujen | Mengchieh Lee, Tongbou Chang, Chunyuan Hsu | Evaluation of indoor environment parameters and energy-efficient HVAC system for an unoccupied operating room | Taiwan | B3: Control of indoor environment | oral |
| <u> IP0492</u> | Wang, Fulin | Zheliang Chen, Yi Jiang, Qianchuan Zhao, Yin Zhao | Preliminary study on perception-based indoor thermal environment control | China | B3: Control of indoor environment | oral |
| <u>HP1179</u> | Wang, Huan | Chen Huang, Qianru Zhang | A study on the purging flow rate and local mean age of air in a large space building with side-wall air supply and stratified air conditioning system | China | B3: Control of indoor environment | oral-poster |
| HP1120 | Wang, Jinlong | Pengyi Zhang | In-site deposition of birnessite nanosphere on polyster fiber for formaldehyde removal at room temperature | China | B3: Control of indoor environment | oral |
| <u>HP0271</u> | Wang, Kai-Feng | Chao-Heng Tseng, Shau-Yuan Liu, Huang-Chin Wang, Sy-Yuan Kang | Indoor air quality diagnostic expert system for optimal improvement measures | Taiwan | B3: Control of indoor environment | oral |
| <u> IP0465</u> | Wang, Pengfei | Haoran Wei, Yi Jiang | Field measurement and analysis of air quality inside subway | China | B3: Control of indoor environment | oral-poster |
| HP0214 | Wang, Xiaoliang | Lei He, Bo Lei, Haiquan Bi | A prediction method for the indoor air relative humidity of the room with constant temperature and humidity based on the heat balance | China | B3: Control of indoor environment | oral |
| HP0727 | Wang, Yu | Zhou Lingchang | Experimental investigations on characterization of mini- environments in a cleanroom with non-unidirectional airflow | China | B3: Control of indoor environment | oral-poster |
| <u> IP0120</u> | Xu, Yao | Xiaosong Zhang, Qing Cheng | A novel air dehumidification method using electrodialysis | China | B3: Control of indoor environment | oral |
| <u>HP1405</u> | Xu, Yuzhen | Chao Zheng, Yifan Huang, Zhen Liu, Keping Yan | Inactivation of bio-aerosols by non-thermal plasma | China | B3: Control of indoor environment | oral-poster |
| <u> HP0595</u> | Xue, Yu | Zhiqiang (John) Zhai | Comparison and integration of generic algorithm and adjoint algorithm for optimizing indoor environments | China | B3: Control of indoor environment | oral |
| HP0308 | Yang, Jun | Menghao Qin | Analysis of indoor hygrothermal conditions in residential buildings during the plum rain season in Southeast China | China | B3: Control of indoor environment | oral |

| <u>HP0099</u> | Yeh, Yu-Chun | Yaw-Shyan Tsay | Moisture-buffering assessment of materials applied in a residential unit in Taiwan by using the mold germination graph method | Taiwan | B3: Control of indoor environment | oral-poster |
|---------------|--------------------|---|--|--------|-----------------------------------|-------------|
| <u>HP0318</u> | Yuan, Yongli | Xiang Zhou, Xu Zhang | Experimental research on ceiling radiant panel combined with different air distribution system | China | B3: Control of indoor environment | oral |
| <u>HP0540</u> | Zhang, Changbin | Yaobin Li, Hong He | Sodium promoted Pd/TiO2 for catalytic oxidation of formaldehyde at ambient temperature | China | B3: Control of indoor environment | oral-poster |
| <u>HP1061</u> | Zhang, Qianru | Chen Huang, Huan Wang, Zhijun Zou | The characteristics of the air temperature distributions with different heat source powers in a large space building under the stratified air conditioning system with low-sidewall air inlets and middle-height air outlets | China | B3: Control of indoor environment | oral-poster |
| <u>HP0058</u> | Zhang, Xianping | Xinli Wei, Xiaoge Chen, Huan Ma, Huanlin Duan | Assessment of boiler and heat pump using R744 based natural mixture as working fluid | China | B3: Control of indoor environment | oral-poster |
| <u>HP0728</u> | Zhao, Haitian | Borong Lin, Fan Lu, Ye Zhao, Yanchen Liu, Bo Peng | A field study of indoor environment quality of super high- rise buildings with temperature and humidity independent control system | China | B3: Control of indoor environment | oral |
| <u>HP0916</u> | Zhu, Rui | Joon-Ho Choi, Douglas Noble, Karen Kensek | Visual environmental quality control using human physiological signal in an office workplace | USA | B3: Control of indoor environment | oral-poster |
| <u>HP1188</u> | Yamashita, Kohtaro | Hirotaka Ide, Hiroshi Asada, Yasunori Narita, Atsuo Nozaki | A study on adsorption performance of sorptive building materials for chemical and odor substances | Japan | B3: Control of indoor environment | oral-poster |

| <u>HP0901</u> | Abdul-Hamid, Akram | Sulaiman El-Zoubi, Sulaiman Omid | Evaluation of set points for moisture supply and volatile organic compounds as controlling parameters for demand controlled ventilation in multifamily houses | Sweden | B4: Ventilation | oral |
|---------------|--------------------------------|---|---|-----------|-----------------|-------------|
| <u>HP0216</u> | Ai, Zhengtao | Cheuk-Ming Mak, Dongjin Cui | Comparison of single-sided ventilation characteristics between single-room and multistory buildings due to wind effect | Hong Kong | B4: Ventilation | oral |
| <u>HP0723</u> | An, Karl | Jimmy C.H. Fung, David C. Wong | Pollutant penetration into idealized naturally ventilated residences by wind driven flow using CFD approach | China | B4: Ventilation | oral |
| HP0053 | Atwal, Loveleen | Rodrigo Mora, Gamal Mustapha | Ventilation for a house as a system | Canada | B4: Ventilation | oral |
| HP1090 | Björling, Mikael | Dan Jönsson, Hans Bagge, Dennis Johansson | Air infiltration into naturally ventilated apartments in multifamily dwellings | Sweden | B4: Ventilation | oral |
| HP0875 | Bolashikov, Zhecho Dimitrov | Arsen K. Melikov, Lauris Rezgals, Aleksandra Lipczynska, Panu Mustakallio, Risto Kosonen, Ilari Aho | Comparison of radiant and convective cooling of office room: effect of workstation layout | Denmark | B4: Ventilation | oral |
| <u>HP1396</u> | Canha, Nuno | Corinne Mandin, Olivier Ramalho, Guillaume Wyart, Jacques Ribéron, Claire Dassonville, Otto Hänninen, Susana M. Almeida, Mickael Derbez | Ventilation characterization of 17 nursery and elementary schools in France and its impact on indoor air pollution | Portugal | B4: Ventilation | oral |
| HP0069 | Chen, Bin | Stefano Schiavon, Fred S. Bauman, Qingyan Chen | A comparison between two Underfloor Air Distribution (UFAD) design tools | USA | B4: Ventilation | oral |
| <u>HP0690</u> | Chen, Nientsu | Chun-Ta Tzeng, Yawshyan Tsay, Chijung Chen | Impact of air guide design of residential balcony on indoor ventilation in Southern Taiwan | Taiwan | B4: Ventilation | oral-poster |
| <u>HP0545</u> | Cheng, Yong | Zhang Lin, Ting Yao, Weiqin Wu | Numerical comparison of indoor air quality and local thermal comfort in a classroom with three ventilation methods | Hong Kong | B4: Ventilation | oral |
| HP0639 | Cheng, Yuanda | Jianlei Niu, Zhenyu Du, Yonggang Lei | Alternative stratified air distribution designs in a terminal building | China | B4: Ventilation | oral |
| HP0411 | Chu, Chia-Ren | Bo-Fan Chiang | Numerical Analysis of Wind-Driven Cross Ventilation in Long Buildings | Taiwan | B4: Ventilation | oral |
| HP0218 | Cui, Dongjin | Cheuk-Ming Mak, Zhengtao Ai | Effect of an upstream building on natural ventilation performance of multi-story buildings | Hong Kong | B4: Ventilation | oral-poster |
| <u>HP0712</u> | Cui, Shuqing | Riccardo Issoglio, Juslin Koffi, Mohamed E.L. Mankibi, Pascal Stabat, Dominique Marchio | Performance evaluation of natural ventilation through windows with horizontal blade shutters | France | B4: Ventilation | oral |
| <u>HP1035</u> | Deng, Shihan | Josephine Lau | Which DOAS configuration is preferred? A simulation study in 5 U.S. climates | USA | B4: Ventilation | oral |
| HP1339 | Di Placido, Adam | Kim Pressnail | A controlled ventilation strategy for Ontario homes: a comparative analysis of energy-use, air quality, and economics | Canada | B4: Ventilation | oral |
| <u>HP0807</u> | Diallo, Thierno | Bernard Collignan, Francis Allard | Impact of building ventilation systems on the operation of passive soil depressurization systems | France | B4: Ventilation | oral |
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| <u>HP1440</u> | Duan, Cui-e | Zhaolin Gu, Jane Wei-Zhen Lu | Numerical studies on ventilation and pollutant dispersion in residence community with different building layouts | China | B4: Ventilation | oral-poster |
|---------------|---------------------|---|--|----------------|-----------------|-------------|
| <u>HP1385</u> | Duan, Shuangping | Chengjun Jing, Xiaomiao Lei | Analysis of hybrid ventilation in buildings with large openings | China | B4: Ventilation | oral |
| HP1311 | Fang, Min | Henggen Shen | Numerical study on efficiency of natural ventilation in a long-span mine-selecting plant in cold area | China | B4: Ventilation | oral-poster |
| <u>HP0967</u> | Freitag, Henning | Christian Kampers, Martin Schmidt, Dirk Müller | A fast laser optical method for the evaluation of the ventilation effectiveness | Germany | B4: Ventilation | oral-poster |
| <u>HP0207</u> | Gong, Jian | | Solution multiplicity of natural ventilation in two horizontally-connected heated compartments | China | B4: Ventilation | oral |
| <u>HP1395</u> | Guan, Yanling | Angui Li, Qiaoning Wang, Erwei Qin | PIV experiment analysis of indoor flow field under wind- driven natural ventilation with different window openings | China | B4: Ventilation | oral |
| HP0633 | Gunner, Amalie | Niels Christian Bergsøe, Alireza Afshari | Saving energy for ventilation using decentralised duct fans | Denmark | B4: Ventilation | oral |
| HP0230 | He, Lei | Xiaoliang Wang, Bo Lei, Haiquan Bi, Yao Chen | The optimization rule for the ventilation effectiveness of CPSD vents in the subway station | China | B4: Ventilation | oral |
| HP0629 | Hellwig, Runa | Christian Tanzer, Michael Sedlmeier | Prospects of reactivating historical stack ventilation systems in schools - a measurement analysis | Germany | B4: Ventilation | oral |
| HP0322 | Hofer, Valeria | Stefan Brandt, Martin Kriegel | Numerical comparison of local and global air distribution in terraced assembly rooms | Germany | B4: Ventilation | oral |
| <u>HP0324</u> | Iddon, Christopher | Nick Hudleston | Poor indoor air quality measured in UK class rooms, increasing the risk of reduced pupil academic performance and health | United Kingdom | B4: Ventilation | oral |
| HP0226 | Iqbal, Ahsan | Peter V. Nielsen, Amalie Gunner, Alireza Afshari | Single-sided natural ventilation through a centre-pivot roof window | Denmark | B4: Ventilation | oral-poster |
| HP0957 | Jareemit, Daranee | Shi Shu, Cynthia Howard-Reed, Zuhaira Alhafi, Jelena Srebric | Investigation of air exchange and occupancy rates in big- box retail buildings | USA | B4: Ventilation | oral |
| <u>HP0610</u> | Jin, Ruiqiu | Jian Hang | Numerical investigation of natural cross ventilation in hospital rooms of a multi-storey building by coupling indoor and outdoor airflow | China | B4: Ventilation | oral |
| <u>HP0240</u> | Johansson, Dennis | Robin Karlsson, Tomas Larsson | Supply air heating in dwellings – study on indoor temperatures and air movements by measurements and simulations | Sweden | B4: Ventilation | oral |
| <u>HP0660</u> | Justo Alonso, Maria | Hans Martin Mathisen, Johan Halvarsson | Case study of window and ventilation refurbishment – simulation on indoor environment quality | Norway | B4: Ventilation | oral |
| HP0939 | Kajtar, Laszlo | Laszlo Kajtar | Analytical model based investigation of ventilation system energy consumption | Hungary | B4: Ventilation | oral-poster |
| <u>HP1354</u> | Kalamees, Targo | Alan Väli, Urve Kallavus, Lembit Kurik, Üllar Alev | Indoor climate and ventilation in Estonian manor schools | Estonia | B4: Ventilation | oral-poster |

| <u>HP0635</u> | Kameishi, Keiji | Yuta Toda, Yunqing Fan, Kazuhide Ito | Field measurement and CFD simulation of residual lifetime of CO2 in office space for developing demand controlled energy recovery ventilator | Japan | B4: Ventilation | oral-poster |
|---------------|------------------|--|---|-------------|-----------------|-------------|
| <u>HP0355</u> | Kim, Moon Keun | Luca Baldini, Hansjürg Leibundgut, Jan Andre Wurzbacher, Nic Piatkowski | Introduction of a novel ventilation strategy recirculating indoor air with CO2 capture device | Switzerland | B4: Ventilation | oral-poster |
| <u>HP0495</u> | Kishi, Sayako | Teruyuki Saito, Satoru Kuno, Yukiko Yoshida, Saki Ota, Mayumi Mimura | The effect of window opening area on the indoor thermal environment of Japanese housing with cross ventilation | Japan | B4: Ventilation | oral |
| <u>HP1009</u> | Kolarik, Jakub | | CO2 sensor versus Volatile Organic Compounds (VOC) sensor – analysis of field measurement data and implications for demand controlled ventilation | Denmark | B4: Ventilation | oral-poster |
| <u>HP0395</u> | Kong, Meng | Jianshun Zhang, Jingjing Wang | Air and air contaminant flows in office cubicles with and without personal ventilation: a CFD modelling and simulation study | USA | B4: Ventilation | oral |
| <u>HP0393</u> | Kriegel, Martin | Eugen Lichtner | Unsteady supply air to improve energy efficiency, thermal an hygienic comfort especially at part load | Germany | B4: Ventilation | oral |
| HP0057 | Lai, Chi-Ming | Tzyy-Hwang Shieh | Potential assessment of an innovative hybrid ventilator for building ventilation | Taiwan | B4: Ventilation | oral |
| <u>HP0947</u> | Lapisa, Remon | Marc O. Abadie, Emmanuel Bozonnet, Patrick Salagnac | Numerical analysis of the thermal stratification modelling effect on comfort for the case of a commercial low-rise building | France | B4: Ventilation | oral-poster |
| <u>HP1204</u> | Lee, Jungyong | Kyung-Jin Jang, Hwataik Han | Occupancy estimation method using dynamic neural network model based on CO2 concentration and additional factors | Korea South | B4: Ventilation | oral |
| <u>HP0283</u> | Leiblein, Thomas | Annika Feige, Marcel Janser, Christian Monn, Holger Wallbaum, Lukas Windlinger, Thomas Hofmann | Field study of natural, mechanical and hybrid ventilation systems of 27 office buildings in the temperate zone country Switzerland | Switzerland | B4: Ventilation | oral |
| HP0504 | Li, Fei | Bingye Li, Junjie Liu | A method to measure three dimensional airflow rates in an aircraft cabin | China | B4: Ventilation | oral |
| <u>HP0632</u> | Li, Haoru | Meiwei Qi, Xiaofeng Li | Field testing of natural ventilation in college student dormitories in Beijing, China | China | B4: Ventilation | oral |
| <u>HP0427</u> | Liang, Chao | Xianting Li, Xiaoliang Shao, Luping Wang, Chong Shen, Huiying Ma | Analysis on energy saving potential of FCUs with cooling water in the upper zone in large-space buildings with stratified air-conditioning system | China | B4: Ventilation | oral |
| <u>HP0428</u> | Liang, Chao | Xuan Jiang, Xiaoliang Shao, Luping Wang, Xianting Li | Equivalent contaminant source: a new index to evaluate the local ventilation performance | China | B4: Ventilation | oral |
| <u>HP1278</u> | Lin, Kan | Shinsuke Kato, Togo Yoshidomi | Simulation analysis for airflow and reduction of cooling load in the forced active ventilated wall of detached house | Japan | B4: Ventilation | oral |
| <u>HP1254</u> | Lin, Xingbin | Josephine Lau | CO2-based dynamic reset of outdoor airflow rate for multiple zone HVAC systems | USA | B4: Ventilation | oral |
| <u>HP0866</u> | Lu, Pengfei | Zhecho D. Bolashikov, Arsen K. Melikov | Experimental study on human exposure to occupant generated pollutants in rooms with ductless personalized ventilation | Denmark | B4: Ventilation | oral |
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| HP1239 | Lyng, Nadja | Niels Trap, Helle V. Andersen, Lars Gunnarsen | Ventilation as mitigation of PCB contaminated air in buildings: review of nine cases in Denmark | Denmark | B4: Ventilation | oral |
|---------------|--------------------|---|---|-----------|-----------------|--------------|
| <u>HP0990</u> | Maddalena, Randy | Wanyu R. Chan, Katia Eliseeva, Mark J. Mendell, Marion Russell, Usha Satish, Douglas P. Sullivan, William J. Fisk | Ventilation rates per person and per unit floor area affect decision making | USA | B4: Ventilation | oral |
| <u>HP0250</u> | Monteiro, Joaquim | Olga S. Castro | Comparison of contaminant removal effectiveness and air change efficiency as indicator of air diffusion quality | Portugal | B4: Ventilation | oral |
| <u>HP0403</u> | Nie, Jinzhe | Lei Fang | Experimental study on mass transfer of contaminants through an enthalpy recovery unit with polymer membrane foils | Denmark | B4: Ventilation | oral |
| <u>HP0818</u> | Ogita, Shunsuke | Yasushi Kondo, Hajime Yoshino, Miwako Fujita, Osamu Nagase | Field measurements of thermal environment of a medium- sized electric commercial kitchen with ceiling supply displacement ventilation system | Japan | B4: Ventilation | oral |
| <u>HP0874</u> | Park, Beungyong | Sihwan Lee, Takashi Kurabuchi, Tatuo Nagai | To improvement of natural ventilation strategy for energy saving in a university classroom | Japan | B4: Ventilation | oral-poster |
| <u>HP1444</u> | Qin, Hao | Stephen S. Y. Lau | Influence of re-entrant typology in wind-induced natural ventilation and pollutant dispersion based on coupled CFD simulation | Hong Kong | B4: Ventilation | oral-poster |
| <u>HP0203</u> | Rim, Donghyun | Stefano Schiavon, William W. Nazaroff | Impact of increasing outdoor ventilation rates on energy consumption for office buildings in tropical climates | USA | B4: Ventilation | oral |
| <u>HP0211</u> | Rong, Li | Dezhao Liu, Guoqiang Zhang, Erling F. Pedersen | Ammonia and methane emissions from a hybrid ventilated dairy cow building and impacts of wind velocity and air temperature on air exchange rate | Denmark | B4: Ventilation | oral |
| HP0262 | Shi, Shanshan | Bin Zhao | Experimental study about the infiltration rates distribution of residential houses in Beijing, China | China | B4: Ventilation | oral |
| <u>HP0551</u> | Taheri, Mahnameh | Matthias Schuss, Alfred Fail, Ardeshir Mahdavi | A comparative field study of space ventilation systems | Austria | B4: Ventilation | oral-poster |
| <u>HP1404</u> | Takaki, Rie | Hiroshi Yoshino, Akira Satake, Hikaru Kobayashi, Koji Moriya, Seizo Baba, Akimitsu Taneichi | A study on application of ventilation and air-conditioning system using desiccant material and solar thermal energy to real building -outline of system and results on system performance of field survey in summer | Japan | B4: Ventilation | oral |
| <u>HP0343</u> | Takizawa, Masaharu | Takashi Kurabuchi, Masaaki Ohba | Research of the ventilation performance prediction of a house | Japan | B4: Ventilation | oral |
| <u>HP1104</u> | Tang, Shiu-Keung | | Effects of wing-wall on the natural ventilation in nearby indoor spaces | Hong Kong | B4: Ventilation | oral |
| <u>HP0542</u> | Toda, Yuta | Keiji Kameishi, Kazuhide Ito | Long-term field measurements and performance assessment of CO2-demand-controlled energy recovery ventilator | Japan | B4: Ventilation | oral |
| HP1084 | van Berkel, Samuel | Kim D. Pressnail | Decentralized ventilation heat recovery using fine copper wires | Canada | B4: Ventilation | oral-poster |
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| <u>HP0258</u> | Wang, Qun | Mats Sandberg, Jian Hang | Assessment of air change rate and contribution ratio in idealized urban canopy layers by tracer gas simulations | China | B4: Ventilation | oral |
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| <u>HP0925</u> | Wang, Ying | Bolun Zheng, Xiaofeng Li | The influence of the usage of mixing fans in ventilation rate test | China | B4: Ventilation | oral-poster |
| <u>HP0270</u> | Wu, Weiqin | Zhang Lin | Influence of a moving manikin under stratum ventilation | China | B4: Ventilation | oral |
| <u>HP0088</u> | Wu, Xiaozhou | Lei Fang, Bjarne W. Olesen, Jianing Zhao, Fenghao Wang | Comparison of mixing and displacement ventilation in a low energy office building during heating season | China | B4: Ventilation | oral |
| HP0344 | Yao, Ting | Zhang Lin | Numerical study of feasibility of fabric diffuser for stratum ventilation | Hong Kong | B4: Ventilation | oral |
| <u>HP0906</u> | Yin, Peng | James F. Sweeney, Michael B. Pate | Residential bathroom exhaust fan energy performance evaluations conducted in a well-instrumented laboratory environment | USA | B4: Ventilation | oral |
| <u>HP1216</u> | Yu, Conson | S.L. Wong, Alvin C.K. Lai | and time particulate matter concentrations | Hong Kong | B4: Ventilation | oral-poster |
| <u>HP0373</u> | Zhang, Zhuopeng | Lihua Zhao | Research on indoor natural ventilation of enclosed housing estates in Guangzhou | China | B4: Ventilation | oral-poster |
| <u>HP1257</u> | Zhao, Haoliang | Xu Zhang, Xiang Zhou | Analysis and discussion of the indoor thermal environment of college teaching building during transition season when used natural ventilation | China | B4: Ventilation | oral |
| HP1381 | Zhou, Junli | Danling Fan, Guoqiang Zhang, Yan Hu, Wei Yang | Calculation of single-sided ventilation due to unsteady wind pressure — Part 1 pulsating rate | China | B4: Ventilation | oral |
| <u>HP1382</u> | Zhou, Junli | Danling Fan, Guoqiang Zhang, Yan Hu, Yaolin Lin | Calculation of single-sided ventilation due to unsteady wind pressure – Part 2 mean flow rate and numerical simulation | China | B4: Ventilation | oral-poster |
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| <u>HP0249</u> | Afshari, Alireza | Niels C. Bergsøe, Siamak R. Ardkapan | Filtration of ultrafine particles from tobacco smoke using an ionizer in combination with an electrostatic fibrous filter | Denmark | B5: Filtration and air cleaning | oral-poster |
|---------------|--------------------|---|--|----------------|---------------------------------|-------------|
| HP0507 | Afshari, Alireza | Pawel Markowicz, Lennart Larsson, Niels C. Bergsøe, Siamak R. Ardkapan | Evaluating the effectiveness of two membranes in blocking chemicals | Denmark | B5: Filtration and air cleaning | oral |
| <u>HP0711</u> | Aldred, Josh | Richard Corsi | A method to estimate the health benefits of activated carbon filtration | USA | B5: Filtration and air cleaning | oral |
| <u>HP0714</u> | Aldred, Josh | Erin Darling, Richard Corsi | A benefit-cost analysis of activated carbon filtration in long- term healthcare facilities | USA | B5: Filtration and air cleaning | oral |
| <u>HP0433</u> | Batault, Frédéric | Olivier Debono, Cécile Raillard, Valérie Hequet, Yves Andres, Frédéric Thevenet, Nadine Locoge, Laurence L.E. Coq | Influence of operating parameters of photocatalytic systems on the degradation of an indoor VOC mixture | France | B5: Filtration and air cleaning | oral-poster |
| <u>HP0879</u> | Bivolarova, Mariya | Chiyomi Mizutani, Arsen K. Melikov, Zhecho D. Bolashikov, Tomonori Sakoi, Kanji Kajiwara | Efficiency of deodorant materials for ammonia reduction in indoor air | Denmark | B5: Filtration and air cleaning | oral |
| <u>HP0615</u> | Blondeau, Patrice | Céline Seguy, Jérôme Nicolle, Marc O. Abadie | Experimental characterization and modeling of a functional wall covering removing formaldehyde from the indoor air | France | B5: Filtration and air cleaning | oral |
| HP1383 | Boni, Andre | Gloria Geng | PM2.5 & PM1 health impact and importance of changing filter standards in HVAC filtration | China | B5: Filtration and air cleaning | oral |
| HP1022 | Capetillo, Azael | Catherine J. Noakes, P. Andrew Sleigh, Amirul Khan | In-Duct UVGI air sterilisation: optimisation study for high performance energy efficient systems | United Kingdom | B5: Filtration and air cleaning | oral |
| <u>HP0997</u> | Carter, Ellison | Lynn E. Katz, Gerald E. Speitel Jr | Nitrogen-doping granular activated carbon to enhance surface-mediated removal of formaldehyde from indoor environments | USA | B5: Filtration and air cleaning | oral |
| <u>HP0673</u> | Chen, Ailu | Qingliang Cao, Jin Zhou, William W. Nazaroff, Bin Yang, Victor W.C. Chang | Indoor/outdoor pollutant relationships in an air- conditioned room during and after the 2013 haze in Singapore | Singapore | B5: Filtration and air cleaning | oral |
| <u>HP1026</u> | Destaillats, Hugo | Meera Sidheswaran, Sebastian Cohn, Douglas Sullivan, William J. Fisk | Laboratory and field demonstration of energy-efficient VOC removal using a manganese oxide catalyst at room temperature | USA | B5: Filtration and air cleaning | oral |
| <u>HP0407</u> | Fang, Lei | Jinzhe Nie, Bjarne W. Olesen | Experimental study on energy performance of clean air heat pump | Denmark | B5: Filtration and air cleaning | oral |
| <u>HP0869</u> | Feilberg, Anders | Hongqing Yao | Application of PTR-MS for characterizing photocatalytic air cleaning of volatile organic compounds | Denmark | B5: Filtration and air cleaning | oral-poster |
| HP0181 | Gao, Zhi | Jianshun Zhang | Experimental evaluation of pollutant emissions from room air cleaners | China | B5: Filtration and air cleaning | oral |
| <u>HP0105</u> | Ginestet, Alain | Dominique Pugnet, Laure Mouradian | Performances, classification and impact on energy consumption of air filters for balanced ventilation systems with heat recovery for dwellings | France | B5: Filtration and air cleaning | oral |
| <u>HP0392</u> | Gonzalez, Luisa | Aurélie C. Joubert, Yves Andres, Christophe Renner, Myriam Liard, Laurence L.E. Coq | Filtration performances of fibrous filters clogged with PM10 and microbial aerosols: influence of ventilation stops in lab-scale-HVAC-unit | France | B5: Filtration and air cleaning | oral |
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| <u>HP0550</u> | Guo, Liujie | Jun Gao, Guangyu Cao, Aimo Taipale | A survey on air filter's usage situation of HVAC systems in China | China | B5: Filtration and air cleaning | oral-poster |
|----------------|------------------|--|--|-------------|---------------------------------|-------------|
| HP1417 | Haep, Stefan | Achim Breidenbach, Gerd Brosig, Thomas Engelke, Eckhard Däuber, Suhartiningsih, Frank Schmidt, Shichang Wang | Filtration performance of particulate air filters for general ventilation, lab testing vs. real life | Germany | B5: Filtration and air cleaning | oral |
| <u> HP0064</u> | Han, KwangHoon | Jensen S. Zhang | Indoor relative performance and challenges of activated carbon and non-AC filtration techniques in reducing high and low concentrations of outdoor pollutants-O3/NO2 | USA | B5: Filtration and air cleaning | oral |
| <u>IP0295</u> | Hasegawa, Asako | Kei Toda, Seiya Tanaka, Takumi Murozumi | Mini-scale experiments to evaluate gaseous chemical removal efficiency of interior finishing materials | Japan | B5: Filtration and air cleaning | oral-poster |
| <u> HP0024</u> | Havermans, John | | The Application of Mobile Air Cleaners using Negative Ions in Contaminated Entomology Repositories | Netherlands | B5: Filtration and air cleaning | oral |
| <u> IP0680</u> | Hou, Yuefei | Xiaotong Yin, Xin Zhang, Junjie Liu, Jingjing Pei, Zhiqiang Wang | Performance of air cleaners for removing gaseous and particulate pollutants | China | B5: Filtration and air cleaning | oral |
| <u>HP1114</u> | Hyun, Junho | Daehoon Park, Jungho Hwang | Filtration and inactivation of aerosolized virus with air ion | Korea South | B5: Filtration and air cleaning | oral |
| <u>IP0038</u> | Jacobs, Piet | Hans Phaff, Marita Voogt | Energy efficient reduction of fine and ultra-fine dust in a nursery | Netherlands | B5: Filtration and air cleaning | oral |
| <u>IP0751</u> | Joe, Yun haeng | Kyoungja Woo, Jungho Hwang | Capturing and inactivation of airborne virus with SiO2-Ag nanoparticle coated air filter | Korea South | B5: Filtration and air cleaning | oral |
| HP1209 | Kagawa, Kenkichi | Toshio Tanaka, Yoshio Okamoto, Tatsumi Enokida, Yasunori Narita, Atsuo Nozaki | Dust removal performance of air purifier using ESP technology for PM2.5 and nanoparticles | Japan | B5: Filtration and air cleaning | oral |
| <u>IP0888</u> | Lee, Eon | David C.C. Fung, Yifang Zhu | Development of a High Efficiency Cabin Air (HECA) filtration system to reduce children's exposure to air pollutants inside schools buses | USA | B5: Filtration and air cleaning | oral |
| <u>IP1145</u> | Lee, Wan-Chen | Jack Wolfson, Jun Young Yoo, Petros Koutrakis | Air purifier performance and the spatial variation in a single residential room | USA | B5: Filtration and air cleaning | oral-poster |
| <u>IP0341</u> | Li, Mu | Jinhan Mo, Jianbang Xiang, Yinping Zhang | An improved method for purification durability test of adsorption-type household air cleaners for volatile organic compounds | China | B5: Filtration and air cleaning | oral |
| HP0438 | Liu, Lumeng | Yi Lu, Jingjing Pei, Junjie Liu | Development and validation of a state-of-the-art test rig for particulate and gaseous filtration evaluation for road vehicle air filters | China | B5: Filtration and air cleaning | oral-poster |
| <u> HP1057</u> | Logue, Jennifer | Melissa M. Lunden, Brett C Singer | Development and application of a physics-based simulation model to investigate residential PM2.5 composition and size distribution across the US | USA | B5: Filtration and air cleaning | oral |
| <u>HP0361</u> | Lu, Yi | Jingjing Pei, Zhiqiang Wang, Hejiang Sun | Performance of low concentration ozone catalytic decomposition by CuO/MnO2 | China | B5: Filtration and air cleaning | oral |
| <u>HP0808</u> | Ma, Huan | Henggen Shen, Chan Xia | Experimental study of combustion characteristics of air filtration materials | China | B5: Filtration and air cleaning | oral-poster |

| <u>HP1400</u> | Mcnabola, Aonghus | Laurence Gill | The development and assessment of an energy efficient air pollution control device for building ventilation systems. | Ireland | B5: Filtration and air cleaning | oral |
|---------------|--------------------------|---|---|-------------|---------------------------------|-------------|
| <u>HP0870</u> | Mizutani, Chiyomi | Mariya P. Bivolarova, Arsen K. Melikov, Zhecho D. Bolashikov, Tomonori Sakoi, Kanji Kajiwara | Air cleaning efficiency of deodorant materials under dynamic conditions: effect of air flow rate | Japan | B5: Filtration and air cleaning | oral |
| <u>HP0141</u> | Morisseau, Kévin | Aurélie Joubert, Laurence L.E. Coq, Yves Andres | Microbial particles release from preloaded fibrous filters at a simulated restart of ventilation in controlled conditions | France | B5: Filtration and air cleaning | oral |
| <u>HP1189</u> | Narita, Yasunori | Yoshio Okamoto, Tatsumi Enokida, Toshio Tanaka, Kenkichi Kagawa, Atsuo Nozaki | Decomposition performance of air purifier using Streamer discharge technology for chemical substances adhering to PM2.5 | Japan | B5: Filtration and air cleaning | oral-poster |
| <u>HP1154</u> | Nishina, Hisato | Atsuo Nozaki | A study on the odor substance countermeasure technology in the toilet space | Japan | B5: Filtration and air cleaning | oral-poster |
| HP0782 | Noh, Kwang-Chul | Myung-Do Oh, Sung-Il Cha | Study on effective air cleaning ranges of air cleaners in rooms | Korea South | B5: Filtration and air cleaning | oral |
| <u>HP0525</u> | Oikawa, Daisuke | Taisuke Shindo, Yoshika Sekine | Reduction of indoor air concentration of formaldehyde by adsorptive polymer for preventing long term exposure effects in residences | Japan | B5: Filtration and air cleaning | oral-poster |
| <u>HP0713</u> | Oyatogun, Oluwaseun | Shelly L. Miller | Indoor PM10 concentrations in a middle school classroom during pottery activities with and without air cleaners | USA | B5: Filtration and air cleaning | oral |
| <u>HP0934</u> | Pham, Thanh-Dong | Byeong-Kyu Lee, Chi-Hyeon Lee | Application of metal doped TiO2/glass fiber for bioaerosol disinfection under visible | Korea South | B5: Filtration and air cleaning | oral-poster |
| <u>HP0911</u> | Ptak, Thad | Chrystal Gillilan | Impact of residential HVAC filtration on indoor concentration of PM1.0 and PM2.5 particulate matter | USA | B5: Filtration and air cleaning | oral |
| <u>HP0221</u> | Rosén, Karl | | The impact of electrostatic air cleaning in free-ranging egg production | Sweden | B5: Filtration and air cleaning | oral |
| <u>HP1052</u> | Shaughnessy, Richard | David Reisdorph, Glenn Morrison | Field testing to estimate ozone emission rates of in-duct air cleaners in occupied homes | USA | B5: Filtration and air cleaning | oral |
| <u>HP1041</u> | Siegel, Jeffrey | Atila Novoselac, Glenn C. Morrison | A laboratory method for measuring ozone emission from in-duct air cleaners | Canada | B5: Filtration and air cleaning | oral |
| <u>HP1262</u> | Skwarczynski, Mariusz | Alicja Siuta-Olcha, Slawomira M. Dumala, Urszula Gaska-Jedrduch, Marzenna R. Dudzinska, Magdalena Szyszkowska | Impact of ventilation and air conditioning systems on indoor air quality in a classroom | Poland | B5: Filtration and air cleaning | oral-poster |
| <u>HP1032</u> | Su, Chunxiao | Josephine Lau, Fang Yu | Applying real-time bioaerosol monitor to evaluate upper- room UVGI in Classroom | USA | B5: Filtration and air cleaning | oral |
| <u>HP1205</u> | Tanaka, Toshio | Kenkichi Kagawa, Yasunori Narita, Atsuo Nozaki | Evaluation methodology of removal performance of portable air purifiers for gaseous substances | Japan | B5: Filtration and air cleaning | oral |
| <u>HP0917</u> | Trudell, Carmen | | Dreaming about bricks: passive particulate filtration with wall-embedded cyclones | USA | B5: Filtration and air cleaning | oral-poster |
| <u>HP1410</u> | van der Graaf, Tim | Thomas Caesar, Hartmut Finger | Procedure to quantify long-term particle removal performance of household air purifiers | Netherlands | B5: Filtration and air cleaning | oral |
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| <u>HP0494</u> | Vennekens, Davy | Jean Sablayrolles, Caroline Demathieu-Roeltgen, Katarzyna Chuda | Lowering formaldehyde concentrations in the indoor air by using scavengers in gypsum products | France | B5: Filtration and air cleaning | oral |
|---------------|----------------------------|--|---|-----------|---------------------------------|-------------|
| <u>HP0890</u> | Vizhemehr, Ali Khazraei | Fariborz Haghighat, Gordon Mckay | New developed framework for breakthrough curve prediction at typical indoor levels of concentration and relative humidity | Hong Kong | B5: Filtration and air cleaning | oral |
| <u>HP0801</u> | Wang, Juan | Pengyi Zhang, Bo Zhang | Development of air cleaners based on the integration of advanced oxidation and water washing | China | B5: Filtration and air cleaning | oral-poster |
| <u>HP1364</u> | Wu, Yiren | Gabriel M. Manzo, George G. Chase, Henggen Shen | Experimental study on thickness shrinkage of fine fibrous media in gas-liquid coalescence filtration | China | B5: Filtration and air cleaning | oral |
| <u>HP0187</u> | Yuen, Wai | Sau C. Fu, Christopher Y.H. Chao | An energy efficient air filtration technique with acoustic radiation force and acoustic streaming | Hong Kong | B5: Filtration and air cleaning | oral |

| <u>HP1399</u> | Mccreddin, Andrew | Aonghus Mcnabola | Predicting the personal exposure of office workers to PM10 using differing modelling approaches | Ireland | B6: Measurement and prediction | oral |
|----------------|-----------------------|---|--|----------------|--------------------------------|-------------|
| <u>HP1375</u> | Ali, Maisarah | Majeed Oladokun, Samsul B. Osman | An improved method to evaluate indoor microclimatic data: case study of a book archive in a hot and humid climate | Malaysia | B6: Prediction & measurement | oral |
| <u>HP0346</u> | Askan, Tunc | Martin Kriegel | 3D annual building energy simulation with transient thermal comfort prediction | Germany | B6: Prediction & measurement | oral |
| HP0347 | Askan, Tunc | Martin Kriegel | 3D decomposed particle tracking velocimetry | Germany | B6: Prediction & measurement | oral |
| HP0491 | Bourdin, Delphine | Pierre Mocho, Valérie Desauziers, Hervé Plaisance | Formaldehyde emission behavior of building materials: on- site measurements and modeling approach to predict indoor air | France | B6: Prediction & measurement | oral |
| HP0122 | Cao, Jianping | Jianyin Xiong, Lixin Wang, Yinping Zhang | Measurement of gas-phase SVOCs using SPME: calibration method | China | B6: Prediction & measurement | oral |
| HP0484 | Cao, Shi-Jie | Johan Meyers | Fast prediction of indoor pollutant dispersion based on low-dimensional reduced-order ventilation models | China | B6: Prediction & measurement | oral |
| HP0209 | Cehlin, Mathias | Taghi Karimipanh, Ulf Larsson | Unsteady CFD simulations for prediction of airflow close to a supply device for displacement ventilation | Sweden | B6: Prediction & measurement | oral |
| HP1436 | Chen, Fujiang | Pengcheng Zhao, Weidong Sun, Huanxin Chen, Jinliang Wang, Changling Wang, Qingsheng You | A simplified method of modelling fabric air dispersion system in penetration mode | China | B6: Prediction & measurement | oral |
| HP1419 | Chen, Wenhao | Janet M. Macher, Kazukiyo Kumagai | Indoor dampness and mold as indicators of respiratory health risks, Part 6: comparison of champs simulation of the moisture content and water activity of gypsum wallboard to controlled laboratory measurements | USA | B6: Prediction & measurement | oral |
| HP1328 | Chen, Yixing | Lixing Gu, Jianshun Zhang, Meng Kong | Energyplus and CHAMPS-Multizone co-simulation for energy and indoor air quality analysis | USA | B6: Prediction & measurement | oral |
| HP0665 | Ching, Michael | Michael S.C. Yim, Simon H.C. Tsui, Kimson K.S. Leung | Energy performance of pre-conditioned air unit in Hong Kong international airport | Hong Kong | B6: Prediction & measurement | oral |
| HP1290 | Da, Guillaume | M. Ben-Othmane, Michel Havet, Evelyne Gehin, Camille Solliec | Predicting particle deposition in large circular ventilation ducts for non-fully developed turbulent flow: experiments and modelling | France | B6: Prediction & measurement | oral |
| HP0481 | Dai, Yunchuang | Ziyan Jiang, Shan Xin, Peizhang Chen, Sheng Li | Optimal control of variable speed parallel-connected pumps | China | B6: Prediction & measurement | oral |
| <u> HP0398</u> | Dallongeville, Arnaud | Denis Zmirou-Navier, Barbara Le Bot, Pierre L.E. Cann, Cécile Chevrier, Nathalie Costet, Séverine Deguen, Isabella Annesi-Maesano, Olivier Blanchard | The asthm'child project: study of indoor exposure to chemical and biological air contaminants known or suspected to affect respiratory health | France | B6: Prediction & measurement | oral-poster |
| HP0440 | Dobiášová, Lucie | Daniel Adamovský | The indoor environment of an area with high occupancy | Czech Republic | B6: Prediction & measurement | oral-poster |
| HP0337 | Duan, Ran | Yan Huang, Haishen Yin, Xiong Shen, Junjie Liu | Transient simulation of air environment in airliner cabins during takeoff | China | B6: Prediction & measurement | oral |

| HP0336 | Essah, Emmanuel | Stacey D. Waring | Effect of pollutants on the functionality of breathable roofing membranes in a bat roost | United Kingdom | B6: Prediction & measurement | oral |
|---------------|--------------------|--|---|----------------|------------------------------|-------------|
| <u>HP0827</u> | Feng, Xiaohang | Da Yan, Hongsan Sun | Cluster analysis of questionnaire survey on occupant window operation modes | China | B6: Prediction & measurement | oral |
| <u>HP0164</u> | Gong, Mengyan | Liangpo Liu, Lihui Huang, Zhongnan Pu, Jinhan Mo, Jan Sundell, Heqing Shen, Charles J. Weschler, Yinping Zhang | Phthalate metabolites in urine samples from Beijing children and relationships with phthalate levels in their handwipes | China | B6: Prediction & measurement | oral |
| HP1229 | Gormley, Michael | David A. Kelly, Thomas Aspray | Bio-aerosol cross-transmission via the building drainage system | United Kingdom | B6: Prediction & measurement | oral |
| <u>HP0771</u> | Hasegawa, Asako | U Yanagi, Naoki Kagi, Ken-Ichi Hasegawa, Naohide Shinohara, Keiko Abe, Hiroshi Yoshino | Indoor air quality and climate of emergency temporary housing in Aso City, Kumamoto | Japan | B6: Prediction & measurement | oral-poster |
| <u>HP0264</u> | He, Weibing | Hejiang Sun | Experiment and simulation of radiant/convective split from passenger in aircraft cabins | China | B6: Prediction & measurement | oral |
| <u>HP1438</u> | Huang, Shaodan | Jianyin Xiong, Yinping Zhang | Influence of temperature on the initial emittable concentration of formaldehyde in building materials: Interpretation and validation | China | B6: Prediction & measurement | oral-poster |
| <u>HP0228</u> | Huang, Yan | Jianmin Li, Bingye Li, Ran Duan, Junjie Liu, Xiong Shen, Qingyan Chen | Influence of sampling point distributions on the accuracy of indoor air environment measurements | China | B6: Prediction & measurement | oral |
| HP0273 | Huang, Yu-Ju | Chao-Heng Tseng, Chung-Chin Yang, Sy-Yuan Kang, Huang-Chin Wang | The development of air quality wireless sensor network for indoor PM10 and PM2.5 prediction model | Taiwan | B6: Prediction & measurement | oral |
| <u>HP1422</u> | Kawaguchi, Makoto | Mark Mendell, George Chrysochou, Dennis Shusterman, Justine Hutchinson, Kazukiyo Kumagai | Indoor dampness and mold as indicators of respiratory health risks, Part 7: a review of Microbial Volatile Organic Compounds (MVOCs) observed under damp conditions | USA | B6: Prediction & measurement | oral |
| <u>HP0517</u> | Kim, Hyojin | Jeff Haberl | Exploring methods to analyze and display continuously- measured time-series IEQ performance data | USA | B6: Prediction & measurement | oral |
| HP1331 | Kimura, Kentaro | Katsuhiko Shibata, Naoyuki Tanita, Masafumi Sato, Yasushi Kondo | Estimation method of cooling load in an underground station | Japan | B6: Prediction & measurement | oral-poster |
| HP0602 | Knudsen, Sofie | Eva B. Møller, Elvira Bräuner | Building characteristics that determine moisture in 105 Danish homes | Denmark | B6: Prediction & measurement | oral |
| HP0512 | Krajčík, Michal | Dušan Petráš, Juraj Bezák | System to monitor and control indoor environment for energy consumption optimization – a pilot study in a school building | Slovakia | B6: Prediction & measurement | oral-poster |
| HP0873 | Kurabuchi, Takashi | Ryo Okamoto, Sihwan Lee, Marumi Funado, Yoshihiro Toriumi, Megumi Aibara | Measurement of capture efficiency of an exhaust hood in a commercial kitchen with disturbances | Japan | B6: Prediction & measurement | oral |
| <u>HP1401</u> | Lei, Lei | Shugang Wang, Tengfei (Tim) Zhang | An inverse method to determine wall boundary convective heat fluxes in indoor environments | China | B6: Prediction & measurement | oral |
| <u>HP0641</u> | Liang, Weihui | Fengna Chen, Xudong Yang | Volatile organic compound emissions from a "wet" material assembly in a small-scale environmental chamber and in two real houses | China | B6: Prediction & measurement | oral |
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| <u>HP1023</u> | Lin, Cheng-Chun | Liangzhu (Leon) Wang | Combining predictions and measurements for indoor environment forecasting | Canada | B6: Prediction & measurement | oral |
|---------------|---------------------------|---|--|----------------|------------------------------|-------------|
| <u>HP0912</u> | Lin, Yi-Jiun peter | Ting-Ya Tsai | Experimental measurements of indoor air stratification in the space using an under-floor air distribution system | Taiwan | B6: Prediction & measurement | oral-poster |
| HP1118 | Liu, Cong | Charles J. Weschler, Yinping Zhang | Predicting size distributions of particle associated SVOCs in indoor environments based on dynamic gas-particle mass transfer | China | B6: Prediction & measurement | oral |
| HP1213 | Liu, Li | Peter V. Nielsen, Rasmus L. Jensen, Chunwen Xu, Yuguo Li | Transport of expiratory droplet nuclei among three standing manikins | Denmark | B6: Prediction & measurement | oral |
| HP0103 | Liu, Linlin | Xinke Wang, Yanyu Zhang | Numerical investigation on sampling process of an active SVOC sampler | China | B6: Prediction & measurement | oral |
| <u>HP1176</u> | Liu, Xiaoping | Jianlei Niu | Evaluation of turbulence models for simulating flow and heat transfer in cross-corrugated triangular channels | Hong Kong | B6: Prediction & measurement | oral-poster |
| HP0315 | Liu, Xiaoyu | Nancy F. Roache, Matt R. Allen | Development of a small chamber method for SVOC sink effect study | USA | B6: Prediction & measurement | oral |
| <u>HP0614</u> | Lo, James | | Particle image velocimetry experiments in a wind tunnel to study wind-driven airflow through building openings | USA | B6: Prediction & measurement | oral |
| <u>HP0560</u> | Mao, Yun-Feng | Zhuo Li, Wen-Quan Tao | Predicting emissions and transport of semi-volatile organic compounds in indoor environments: a review on mechanistic models | China | B6: Prediction & measurement | oral-poster |
| <u>HP0883</u> | Markov, Detelin | Arsen K. Melikov | Novel approach for evaluation of air change rate in naturally ventilated occupied spaces based on metabolic CO2 time variation | Bulgaria | B6: Prediction & measurement | oral |
| <u>HP0703</u> | Martuzevicius, Dainius | Darius Ciuzas, Tadas Prasauskas, Ruta Sidaraviciute, Lina Seduikyte, Andrius Jurelionis, Laura Gagyte, Violeta Kauneliene | Characterization of indoor pollution sources for a real – time management of IAQ | Lithuania | B6: Prediction & measurement | oral-poster |
| <u>HP0696</u> | McDonagh, Ann | Catherine J. Noakes | A comparison of the sampling efficiency of bioaerosol samplers and particle counters in natural and controlled environments | United Kingdom | B6: Prediction & measurement | oral |
| HP1070 | McGrath, James | Miriam A. Byrne, M.R. Ashmore, A.C. Terry, C. Dimitroulopoulou | Simulating the effect of variations in emission source start times on indoor PM concentrations | Ireland | B6: Prediction & measurement | oral |
| <u>HP0904</u> | Nasir, Zaheer | Simon T. Parker, Luiza C. Campos | Exponential decay rate estimation using time-integrated aerosol sampling of variable duration | United Kingdom | B6: Prediction & measurement | oral-poster |
| <u>HP0772</u> | Nice, Jako | | Air, surfaces and copper halos, interstitial microbial zones. Has it been measured; can it be predicted? | South Africa | B6: Prediction & measurement | oral |
| <u>HP0553</u> | Nohr, Michael | Matthias Richter, Birte Mull, Wilhelm G Lorenz, Wolfgang Horn | Development of a reference material for emission testing based on lacquer systems | Germany | B6: Prediction & measurement | oral-poster |
| <u>HP1274</u> | Ouaret, Rachid | Anda Ionescu, Olivier Ramalho, Yves Candau, Viorel Petrehus, Lucille Labat | Modelling the time fluctuation of indoor air formaldehyde concentration: variability structure identification and forecasting using nonlinear models | France | B6: Prediction & measurement | oral |

| <u>HP0488</u> | Plaisance, Herve | Alodie Blondel, Valerie Desauziers, Pierre Mocho | Field investigation on the indoor sinks of formaldehyde | France | B6: Prediction & measurement | oral-poster |
|---------------|----------------------|--|---|-----------|------------------------------|-------------|
| <u>HP0367</u> | Poulhet, Guillaume | Sébastien Dusanter, Sabine Crunaire, Nadine Locoge, Pascal Kaluzny, Patrice Coddeville | In-situ measurements of volatile organic compound emissions from building materials using passive flux samplers | France | B6: Prediction & measurement | oral |
| HP1256 | Qiu, Yang | John D. Spengler, Cheng Chen, Yue Deng, Erica Forzani, Gary Adamkiewicz | Monitoring variability of indoor VOCs with novel continuous real-time sensor in low-income urban public housing in Boston, MA | USA | B6: Prediction & measurement | oral |
| <u>HP1356</u> | Ramos, Joao | Fernando Pinto | Indoor air quality audit in two office buildings in Portugal | Portugal | B6: Prediction & measurement | oral-poster |
| HP0300 | Ren, Xiaoxin | Da Yan, Chuang Wang, Xiaohang Feng | A computational model for window-control action based on occupant behavior | China | B6: Prediction & measurement | oral |
| HP1077 | Rennebarth, Thorsten | Wolfgang Hofbauer, Florian Mayer | A new method for mould sampling at hard to access surfaces | Germany | B6: Prediction & measurement | oral-poster |
| <u>HP0313</u> | Rizk, Malak | Marie Verriele, Sebastien Dusanter, Coralie Schoemaecker, Stéphane L.E. Calve, Nadine Locoge | Sorption of organic gases onto building materials: development of a new device for in-situ measurements | France | B6: Prediction & measurement | oral |
| HP0846 | Saarinen, Pekka | P. Kalliomäki, J.W. Tang, H. Koskela | Air leakage through isolation room doorway – measurements and CFD simulations | Finland | B6: Prediction & measurement | oral |
| <u>HP1304</u> | Sadick, Abdul-Manan | Ahmed M. Radwan, Shauna Mallory-Hill, Mohamed H. Issa | Development of a protocol for measuring Indoor Environmental Quality (IEQ) in office and school buildings | Canada | B6: Prediction & measurement | oral |
| <u>HP0775</u> | Salmela, Anniina | Johanna Moisa, Tiina Reponen, Pertti Pasanen | Retention of penicillium brevicompactum fungal enzyme activity in environmental sample | Finland | B6: Prediction & measurement | oral |
| HP0123 | Schripp, Tobias | Ruth Giesen, Julia Scholtyssek, Bettina Meyer, Harald Schwab, Tunga Salthammer | Developing a reference source for formaldehyde emission testing of wooden building products | Germany | B6: Prediction & measurement | oral |
| HP0189 | Sebroski, John | Jason W. Miller, Mark Spence | Evaluation of modified flec® cell and micro chamber prototype for monitoring Methylene Diphenyl Diisocyanate (MDI) emissions | USA | B6: Prediction & measurement | oral-poster |
| <u>HP1044</u> | Sekine, Yoshika | Ayano Azuma, Yuki Nagaoka, Michio Butsugan | Simultaneous measurement of NO and NO2 by passive air sampler employing novel oxidative trapping filter for NO | Japan | B6: Prediction & measurement | oral-poster |
| HP0422 | Shen, Runlin | Jiusheng Yin, Chao-Hsin Lin, Shugang Wang, Tengfei Zhang | Measurement of moisture content in porous material by a hot wire | China | B6: Prediction & measurement | oral |
| <u>HP1132</u> | Soccio, Philippa | | The Edu Tool: IEQ - a new post occupancy evaluation tool for communicating to building designers information about the indoor environment quality inside classrooms | Australia | B6: Prediction & measurement | oral |
| HP0914 | Sohn, Michael | Wanyu R. Chan, David M. Lorenzetti, Simon T. Parker, Bry Lingard | Measurements and model predictions of tracer gas transport in three multi-floor commercial buildings in Oklahoma city | USA | B6: Prediction & measurement | oral-poster |
| HP0578 | Spizer, Reut | Victor Steiner, Geula Sharf, Stelian Ghelberg, Hisham Nassar | A comprehensive survey of indoor radon levels in Israel | Israel | B6: Prediction & measurement | oral |

| <u>HP1202</u> | Su, Huey-Jen | Chia-Wei Lee, Chien-Cheng Jung, Chun-Hsun Lin, Po-Jen Huang, Chih-Hsiang Yang, Chien-Lin Huang, Cheng-Tao Wang, Tsung-Kuan A. Chou, Li-Peng Wang | Comparison of continuous on-site measurement methods for tVOC monitoring regulated by Taiwan EPA in indoor air quality | Taiwan | B6: Prediction & measurement | oral |
|---------------|----------------------------|---|--|-----------|------------------------------|-------------|
| <u>HP0733</u> | Takenaka, Takeshi | Genki Unno, Akira Endo, Shin-Ichi Tanabe | Analysis of influence of lifestyle and season on residential electric power consumption by using a fine-grained power sensing system | Japan | B6: Prediction & measurement | oral |
| <u>HP0877</u> | Tlili, Sabrine | Sabine Crunaire, Marie Verriele, Nadine Locoge, Patrice Coddeville | Wood plastic composite materials made from recycled waste wood and plastic: assessment of formaldehyde and VOC emissions | France | B6: Prediction & measurement | oral |
| <u>HP0839</u> | Tourreilles, Celine | Thierry Duforestel, Patrice Blondeau, Marc Abadie, Anne-Lise Tiffonnet | Coupled models to evaluate the interest of using air cleaners to reconcile indoor air quality and energy efficiency in buildings | France | B6: Prediction & measurement | oral |
| <u>HP0413</u> | Vignau-Laulhere, Jane | Hervé Plaisance, Valérie Desauziers, Pierre Mocho, Yves Bigay, Katarzyna Raulin | Evaluation of two radial diffusive samplers for the measurement of formaldehyde in indoor air | France | B6: Prediction & measurement | oral |
| <u>HP0895</u> | Vizhemehr, Ali Khazraei | Fariborz Haghighat, Gordon Mckay | Modelling comparison of relative performance of gas- phase filter at high and low challenge concentration | Hong Kong | B6: Prediction & measurement | oral |
| <u>HP0017</u> | Walser, Sandra | Bernhard Brenner, Christian Tuschak, Laszlo Gerber, Stefan Hörmansdorfer, Caroline E.W. Herr | Comparative measurements of bacteria and molds in indoor air | Germany | B6: Prediction & measurement | oral-poster |
| <u>HP0810</u> | Wang, Shang | Yuguo Li | Local wind and radiant thermal environment measurement using three spheres | Hong Kong | B6: Prediction & measurement | oral |
| HP0620 | Wilke, Olaf | Anja Pech, Birte Mull, Wolfgang Horn, Oliver Jann | Determination of methanol and ethanol in test chamber air by using TDS-GC-FID | Germany | B6: Prediction & measurement | oral-poster |
| <u>HP0148</u> | Xiong, Jianyin | Jianping Cao, Yinping Zhang | An early stage c-history method for measuring the characteristic parameters of SVOC emission from polymeric materials | China | B6: Prediction & measurement | oral |
| HP0529 | Xu, Haixia | Pengyi Cui, Zhuo Li, Wenquan Tao | Numerical analysis of contaminants mixing in a full-scale test chamber | China | B6: Prediction & measurement | oral |
| <u>HP0964</u> | Yanagi, U | Hiroshi Yoshino, Kenichi Hasegawa, Naoki Kagi, Kenichi Azuma, Naohide Shinohara, Asako Hasegawa, Haruki Osawa | Indoor airborne, settled, and adhesive fungi in water- damaged houses after giant tsunami | Japan | B6: Prediction & measurement | oral-poster |
| <u>HP0585</u> | Yu, H.C. | K.W. Mui, L.T. Wong | Validation of the bioaerosol deposition model in ventilated chamber | Hong Kong | B6: Prediction & measurement | oral |
| <u>HP1334</u> | Zhao, Li | Chao Chen, Ping Wang, Yafeng Wang, Yali Wan, Liangtian Wang, Ti Ouyang, Zhaoguang Qiu, Qinqing Wang, Bin Lu, Guoqing Cao, Chong Meng | Experimental investigation on the impact of atmospheric PM2.5 levels change on indoor environment | China | B6: Prediction & measurement | oral |

| <u>HP0979</u> | Adamkiewicz, Gary | Meryl D. Colton, Piers Macnaughton, Jose Vallarino, Ran Rotem, Wanting Zhou, John D. Spengler | Differences in indoor environmental pollutants and air exchange between conventional and green public housing: a case study in Boston | USA | B7: Impact of outdoor environment IAQ and energy efficiency | oral-poster |
|----------------|-------------------|--|--|----------------|---|-------------|
| <u>HP1219</u> | Bae, Gwi-Nam | Jong Bum Kim, Gwang Jae Lee, Sung Hee Ryu, Jae Young Lee | Diurnal variation of vehicular air pollutants in a day-care center | Korea South | B7: Impact of outdoor environment IAQ and energy efficiency | oral |
| <u>HP1024</u> | Carvalho, Ricardo | Ole M. Jensen, Luís A.C. Tarelho | Changes of indoor climate by the adoption of proper wood- burning stoves worldwide | Denmark | B7: Impact of outdoor environment IAQ and energy efficiency | oral |
| HP0435 | Chan, Wanyu | Meera Sidheswaran, Sebastian Cohn, Douglas P. Sullivan, William J. Fisk | Contaminant source strengths and ventilation rates in retail stores – implications to California's building energy efficiency standards | USA | B7: Impact of outdoor environment IAQ and energy efficiency | oral |
| HP0527 | Cui, Pengyi | Zhuo Li, Wenquan Tao | Wind tunnel experiments and multiscale modeling for effects of traffic exhausts on the indoor air quality within urban-scale regions | China | B7: Impact of outdoor environment IAQ and energy efficiency | oral |
| HP1360 | Das, Payel | Zaid Chalabi, Michael Davies, Ian Hamilton, Benjamin Jones, Anna Mavrogianni, Clive Shrubsole, Jonathon Taylor | Using probabilistic sampling-based sensitivity analyses for indoor air quality modelling | United Kingdom | B7: Impact of outdoor environment IAQ and energy efficiency | oral |
| HP0626 | Fung, Cha-Chen | Pu Yang, Yifang Zhu | Infiltration of diesel exhaust into a mechanically ventilated building | USA | B7: Impact of outdoor environment IAQ and energy efficiency | oral |
| HP0274 | Gao, Zhi | Wowo Ding, Ying Yu | Analysis of the relationship between the residential street pattern and air quality in Nanjing city of China | China | B7: Impact of outdoor environment IAQ and energy efficiency | oral-poster |
| <u> HP0956</u> | Han, Jun | Dong Chen, Xiaoming Wang | Improving thermal comfort in lightweight buildings of brick veneer walls with phase change materials | Australia | B7: Impact of outdoor environment IAQ and energy efficiency | oral |
| HP0894 | Hvidberg, Boerge | Majbrith Langeland, Winnie Hyldegaard, Soeren Kreilgaard, Mette N. Jeppesen, Jesper B. Petersen | Detecting intrusion pathways of contaminated soil gas to indoor air and describing some remediation methods | Denmark | B7: Impact of outdoor environment IAQ and energy efficiency | oral-poster |
| HP0708 | Lee, Byung Hee | Hyo Jin Kim, Myoung Souk Yeo, Kwang Woo Kim | Indoor and outdoor PM10 concentrations during the Asian dust storm episodes in Korea | Korea South | B7: Impact of outdoor environment IAQ and energy efficiency | oral |
| HP0259 | Lin, Man | David C. Wong, Yuguo Li, Jian Hang | The influence of viaduct and ground heating on pollutant dispersion within street canyons and from outdoor to indoor: gaseous pollutant and particle simulations | China | B7: Impact of outdoor environment IAQ and energy efficiency | oral |
| HP0688 | Liu, Yanchen | Borong Lin, Zufeng Pei, Yingxin Zhu | Study of the indoor environment quality of green building and conventional building in China | China | B7: Impact of outdoor environment IAQ and energy efficiency | oral |
| HP0652 | Maisey, Shannan | Sandra M. Saunders, Felix A. Mackenzie-Rae, Peter J. Franklin | A reactive indoor air chemistry model study of ambient AQ influences in two cities | Australia | B7: Impact of outdoor environment IAQ and energy efficiency | oral |
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| <u>HP1298</u> | Moga, Ligia | Ioan Moga | Influence of glazing surfaces on the energy performance of buildings | Romania | B7: Impact of outdoor environment IAQ and energy efficiency | oral |
|---------------|----------------------|---|--|----------------|---|-------------|
| <u>HP0819</u> | Nix, Emily | Payel Das, Michael Davies | Shifting the balance of energy use and health impacts across Delhi'S housing stock | United Kingdom | B7: Impact of outdoor environment IAQ and energy efficiency | oral |
| <u>HP0474</u> | Qi, Ronghui | Lin Lu, Hongxing Yang, Jiang Yu | Cooling load and energy consumption of commercial building in main climate regions | Hong Kong | B7: Impact of outdoor environment IAQ and energy efficiency | oral |
| <u>HP1228</u> | Stranger, Marianne | Jelle Laverge, Martin Täubel, Stijn Verbeke, Kim Constandt, Katrien De Baets, Anne Hyvärinen, Eddy Goelen | Indoor air quality in relation to building envelope characteristics of low-energy and passive schools in Belgium | Belgium | B7: Impact of outdoor environment IAQ and energy efficiency | oral-poster |
| <u>HP1231</u> | Stranger, Marianne | Martin Täubel, Stijn Verbeke, Jelle Laverge, Kim Constandt, Katrien De Baets, Anne Hyvärinen, Eddy Goelen | Comparison of the indoor air quality of low-energy and passive schools and dwellings with traditional buildings in Belgium | Belgium | B7: Impact of outdoor environment IAQ and energy efficiency | oral-poster |
| <u>HP0959</u> | Tang, Yuqiao | Pok L. Cheng, Xiaofeng Li | PM2.5 concentration analysis of different environmental impacts at different locations around Tsinghua University in Beijing | China | B7: Impact of outdoor environment IAQ and energy efficiency | oral |
| <u>HP0580</u> | Valoušková, Kristýna | | Heat losses and gains depending on the size of double transparent facade cavity | Czech Republic | B7: Impact of outdoor environment IAQ and energy efficiency | oral-poster |
| <u>HP0192</u> | Yang, Xiaoshan | Lihua Zhao | Long-timescale simulation of the effects of microclimate on building energy performance | China | B7: Impact of outdoor environment IAQ and energy efficiency | oral |
| <u>HP0206</u> | Zhang, Xiaobo | Xu Zhang | A hygrothermal research on energy efficiency and moisture condensation control for building enclosures in mixed climate zone | China | B7: Impact of outdoor environment IAQ and energy efficiency | oral |
| <u>HP0199</u> | Zhou, Jin | Ailu Chen, Qingliang Cao, Bing Yang, Victor W.C. Chang, William W. Nazaroff | Particle exposure during the 2013 haze in Singapore | Singapore | B7: Impact of outdoor environment IAQ and energy efficiency | oral |

| HP1433 | Ali, Zulfiqar | Humaira Amanat, Safdar Sidra, Zaheer A. Nasir, Ian Colbeck | Monitoring of PM2.5 arising from different cooking fuels in rural residential houses | Pakistan | B8: IAQ in developing countries | oral |
|---------------|--------------------------|--|--|----------------|---------------------------------|-------------|
| HP1340 | Almatawa, Mansour | Abbas A. Elmualim, Emmanuel A. Essah | Field measurements of indoor air quality in office buildings in Saudi Arabia | United Kingdom | B8: IAQ in developing countries | oral |
| <u>HP0599</u> | Barabad, Mona Loraine | Duckshin Park | A study of indoor air pollutants from cooking emissions | Korea South | B8: IAQ in developing countries | oral-poster |
| <u>HP0996</u> | Carter, Ellison | Ming Shan, Jiarong Li, Xudong Yang, Jill Baumgartner | Laboratory performance of advanced combustion biomass stoves in reducing household air pollution | USA | B8: IAQ in developing countries | oral |
| IP1025 | Carvalho, Ricardo | Ole M. Jensen, Luís A.C. Tarelho, Adeildo C. Silva | Impacts of two improved wood-burning stoves on the indoor air quality: practices in Peru and Brazil | Denmark | B8: IAQ in developing countries | oral |
| IP0110 | Chen, Min | Xiangzhao Fu | Study on characteristics of people flow in general hospitals in and out of China | China | B8: IAQ in developing countries | oral |
| <u>HP1082</u> | Cheng, Li | Baizhan Li, Yong Ding, Hanwang, Xuefeng Yan | Analysis of the current indoor air quality of large commercial buildings in Chongqing area during summer period | China | B8: IAQ in developing countries | oral-poster |
| <u>IP0570</u> | Hyttinen, Marko | Samson Kefene, Samuel Hartikainen, Pertti Pasanen | Particles, VOCs and lighter PAHs in kitchens using biomass fuels | Finland | B8: IAQ in developing countries | oral |
| IP0486 | Lee, Kiyoung | Duckshin Park | Implication of cow dung combustion in developing countries based on emission characterization | Korea South | B8: IAQ in developing countries | oral |
| <u>HP0282</u> | Li, Jiarong | Ming Shan, Jill Baumgartner, Ellison Carter, Majid Ezzati, Xudong Yang | Laboratory study of pollutant emissions from wood charcoal combustion for indoor space heating in China | China | B8: IAQ in developing countries | oral |
| <u>IP0118</u> | Li, Yanju | Yanhui Ge, Jinbao Liu, Fuyang Wang, Haoqi Lv, Ming Jin | Investigation and evaluation of bacterial contaminant in classrooms and dormitories of college students in winter: a study in a university of Tianjin, China | China | B8: IAQ in developing countries | oral-poster |
| IP0823 | Majumdar, Dipanjali | Sucharita Chakraborty, Pamela Chowdhury, Debasish Sengupta, Anjali Srivastava | Effect of furnishing in the mixing ratio of NMVOC: a case study | India | B8: IAQ in developing countries | oral |
| IP0302 | Ongwandee, Maneerat | Sahalaph Homwuttiwong, Theerapong Sairat | Distribution of airborne BTEX concentrations within petrol stations | Thailand | B8: IAQ in developing countries | oral-poster |
| IP0998 | Panchal, Pritam | Rashmi S. Patil, Rakesh Kumar | Monitoring of indoor air quality in slums of Mumbai city, Mumbai | India | B8: IAQ in developing countries | oral-poster |
| IP0557 | Safdar, Sidra | Zulfiqar Ali, Ian Colbeck, Zaheer A.Nasir | Assessment of airborne microflora in residential houses in Lahore, Pakistan | United Kingdom | B8: IAQ in developing countries | oral |
| IP0281 | Shan, Ming | Jiarong Li, Jill Baumgartner, Yuqin Wang, Xudong Yang | Characterizing indoor real-time PM2.5 emissions from cooking and space heating stoves in Northern China | China | B8: IAQ in developing countries | oral |
| HP1251 | Zhang, Junfeng (Jim) | Xiaoli Duan, Nigel Bruce, Heather Adair-Rohani, Kirk R. Smith | Household coal combustion: exposure to toxic pollutants and health effects | USA | B8: IAQ in developing countries | oral |

| <u>HP0968</u> | Huang, Jianxiang | Yanbin Zhuo, Luyi Xu, Chaobin Zhou | Microclimate and outdoor leisure activities in China's residential communities: the Wuhan experiment | Hong Kong | B9: IAQ in rapidly urbanizing cities | oral |
|---------------|------------------|---|--|----------------|--------------------------------------|---------------------------|
| <u>HP1166</u> | Kim, Min Sung | Se Hwan Song, Nam Chul Seong, Jee Hern Kim, Hyo Jun Kim, Sung Min Hong, Dong Won Yoon | A study on measuring the indoor environment for determining dew condensation at the underground utility tunnel during winter | Korea | B9: IAQ in rapidly urbanizing cities | Final rejection letter |
| <u>HP1392</u> | kim, Yoon-Shin | Cheolmin Lee, Sunju Namgoung, Huunwoo Shin, Wonho Yang, Chanjung Park, Jongcheol Kim, Kyungmi Lee | Characteristics of NO2 and HONO concentrations in homes | Korea South | B9: IAQ in rapidly urbanizing cities | oral-poster |
| <u>HP1393</u> | kim, Yoon-Shin | Cheolmin Lee, Sun Ju Nam Goung, Huunwoo Shin, Chanjung Park, Doowon Han | Effectiveness of air purifier on IAQ in living environments of sensitive population | Korea South | B9: IAQ in rapidly urbanizing cities | oral-poster |
| <u>HP1394</u> | kim, Yoon-Shin | Cheolmin Lee, Sun Ju Nam Goung, Huunwoo Shin, Chanjung Park, Jongcheol Kim, Kyungmi Lee | Effects of air purifier on change of atopic dermatitis and indoor air quality | Korea South | B9: IAQ in rapidly urbanizing cities | oral-poster |
| HP0363 | Lai, Ka Man | Maggie Chan, K.K. Ma, Irene Li, Karen Lee, Tommy Lo, William Yu | IAQ and environmental hygiene analysis in subdivided units in Hong Kong | Hong Kong | B9: IAQ in rapidly urbanizing cities | oral |
| <u>HP0323</u> | Li, Wen-Whai | Amit Raysoni | Measurements of traffic-related indoor-outdoor air pollution at elementary schools in a cross-border urbanized metroplex | USA | B9: IAQ in rapidly urbanizing cities | oral-poster |
| <u>HP0464</u> | Liu, Yulong | Chaobin Zhou, Ying Li, Jinxian Zhang, Luyi Xu, Sumei Liu, Aiming Ma, Hao Li | A fast and simple tool to assess indoor environment quality of residential buildings at the stage of schematic design | China | B9: IAQ in rapidly urbanizing cities | oral-poster |
| <u>HP1253</u> | Luo, Zhiwen | Biao Li, Mats Sandberg, Jing Liu | Ventilation performance in a passage between two non- parallel buildings | United Kingdom | B9: IAQ in rapidly urbanizing cities | oral |
| <u>HP0640</u> | Pei, Zufeng | Borong Lin, Yanchen Liu, Yingxin Zhu | The comparison study of indoor environment quality between design goal and actual performance for green buildings in China | China | B9: IAQ in rapidly urbanizing cities | oral |
| <u>HP0923</u> | Yang, Fenhuan | Li Sun, Dane Westerdahl, Zhi Ning | Comprehensive evaluation of passenger exposure to particulate air pollution in Hong Kong public transit systems | Hong Kong | B9: IAQ in rapidly urbanizing cities | oral |
| <u>HP1170</u> | Yoon, Jaeock | | Analyzing indoor air quality in airtight environments in new apartments in Korea with the help of field measurement devices | | B9: IAQ in rapidly urbanizing cities | |
| HP0577 | Yue, Yang | Lihui Huang, Zhongnan Pu, Jan Sundell, Yinping Zhang | Measurement of carbonyls in residential indoor air during summer in Beijing | | B9: IAQ in rapidly urbanizing cities | |
| <u>HP0463</u> | Wang, Zhiqiang | Chaobin Zhou, Yi Jiang, John D. Spengler | The investigation of indoor air quality at high-rise residential buildings in China: a pilot study | China | B9: IAQ in rapidly urbanizing cities | oral |
| HP0156 | Wei, Wenjuan | Rui Cheng, Weiping Zhao, Yinping Zhang | Influence of China's building energy efficiency policy on urban indoor formaldehyde exposure | China | cities | orar-poster |
| HP0085 | Zhang, Huibo | Hiroshi Yoshino, U Yanagi, Jingchao Xie, Zhiwei Lian | A detailed survey on indoor air quality and children's health in Shanghai | China | B9: IAQ in rapidly urbanizing cities | oral |

| <u>HP0887</u> | Mandal, Anubha | Anuj, Girish, Jaspal, Rohit, Shruti, Adhirath | Health threat by biomass cooking fuels on infants- a case study | India | B11: Education and issues | oral-poster |
|---------------|----------------|---|--|--------|---------------------------|-------------|
| <u>HP0446</u> | Mora, Rodrigo | Valentín Varga, Loveleen Atwal | Building science integrated systems: methodology for residential indoor air quality investigations | Canada | B11: Education and issues | oral-poster |

| HP0358 | Amemiya, Takako | Toshiharu Ikaga, Kota Fujisaki | Effect of educational facilities on self-assessed student learning performance and health | Japan | B12: Productivity and economics | oral-poster |
|---------------|--------------------|--|--|-------------|---------------------------------|-------------|
| HP1294 | Boerstra, Atze | Marcel G.L.C. Loomans, Jan L.M. Hensen | Personal control over indoor climate and productivity | Netherlands | B12: Productivity and economics | oral |
| <u>HP0662</u> | Borisová, Lucia | | The cost optimal methodology of dwelling house in Slovak Republic (determination of optimal heat transfer coefficients for dwelling house) | Slovakia | B12: Productivity and economics | oral-poster |
| HP0071 | Jönsson, Arne | | The optimal air rate with regard to economic growth and smoking from weber-fechners law | Sweden | B12: Productivity and economics | oral-poster |
| <u>HP0072</u> | Jönsson, Arne | | The value of ventilation from the weber-fechner law | Sweden | B12: Productivity and economics | oral-poster |
| <u>HP0316</u> | Jumeno, Desto | Hiroshi Matsumoto, Lusi Susanti | Utilization of foliage plants on the design of eco-ergonomic office | Japan | B12: Productivity and economics | oral |
| <u>HP0612</u> | Kuzuu, Eriko | Shin-Ichi Tanabe, Asami Nagareda, Naoyuki Harada, Mitsunobu Abe, Masanori Oshikubo, Yuka Nakamura, Haruo Oshima, Shinji Wada, Hiroaki Taguchi | Productivity and indoor environmental quality of research institution with refreshment and communication area | Japan | B12: Productivity and economics | oral |
| HP0955 | Mandin, Corinne | Guillaume Boulanger, Thomas Bayeux, Corinne Mandin, Séverine Kirchner, Benoît Vergriette, Valérie Pernelet-Joly | Socio-economic costs due to indoor air pollution: a tentative estimation for France | France | B12: Productivity and economics | oral-poster |
| <u>HP0661</u> | Tsushima, Sayana | Shin-Ichi Tanabe, Naoe Nishihara, Masaya Hiraoka, Shin-Ichi Hiromoto, Hideharu Komoda, Seiichi Tabuchi | Workers' awareness and indoor environmental quality in power-saving offices | Japan | B12: Productivity and economics | oral |
| HP0837 | van Kemenade, Peer | Marcel G.L.C. Loomans, Siem Opschoor, Jan L.M. Hensen | Building comfort performance assessment using a monitoring tool | Netherlands | B12: Productivity and economics | oral |
| <u>HP0946</u> | Wargocki, Pawel | Peter Foldbjerg, Kurt Emil Eriksen, Lars Eriksen Videbæk | Socio-economic consequences of improved indoor air quality in Danish primary schools | Denmark | B12: Productivity and economics | oral |
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| HP1307 | Noguchi, Miyuki | Saya Tanaka, Kaede Watanabe, Akihiro Yamasaki | Correlation between the odor concentration and the VOC composition of tobacco smoke | Japan | B13: Community engagement | oral-poster |
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| <u>HP0501</u> | Andamon, Mary Myla | Larry A Bellamy, Ian Ridley | Thermal environments and indoor air quality of P-12 educational facilities in Australia: a critical review of standards, regulations and policies | Australia | B14: Policy, standards & regulations | oral |
|---------------|---------------------|---|---|----------------|--------------------------------------|-------------|
| <u>HP1177</u> | Bae, Chihye | Chulhong Kwon, Boyeong Yun, Jinho Kim, Jongho Lee | A study on social technology development strategy for energy welfare improvement | Korea South | B14: Policy, standards & regulations | oral |
| <u>HP0836</u> | Fleming, Edwina | Jako A. Nice | The South African legislative environment, in critical need of scientific evidence based alignment for airborne control | South Africa | B14: Policy, standards & regulations | oral-poster |
| <u>HP1098</u> | Francisco, Paul | | ASHRAE Standard 62.2: what's new and why | USA | B14: Policy, standards & regulations | oral |
| HP1316 | Grimes, Carl | | Measurements and descriptors for occupant behavior and occupant experience | USA | B14: Policy, standards & regulations | oral-poster |
| <u>HP0720</u> | Kim, Jeonghoon | Hojang Kwon, Kiyoung Lee, Dohoon Lee, Yujin Paek, Sungsoo Kim, Soyoung Hong, Wanryung Lim, Kyoosang Kim | Effects of the smoke-free laws on air quality, biomarker levels in urine and health effects of staffs in Korean restaurants and pubs | Korea South | B14: Policy, standards & regulations | oral |
| HP0975 | Laffargue, Caroline | Reinhard C. Oppl, Stephany I. Mason | Harmonization of VOC emissions testing in Europe – the new standard CEN/TS 16516 | Denmark | B14: Policy, standards & regulations | oral |
| <u>HP1106</u> | Little, John | | What is sustainability? | USA | B14: Policy, standards & regulations | oral |
| HP0976 | Mason, Stephany | Reinhard C. Oppl, Caroline Laffargue | Limit values for VOC emissions from construction and decorative products around the globe | Denmark | B14: Policy, standards & regulations | oral |
| HP0598 | Nehr, Sascha | Shin-Ichi Tanabe | ISO/TC 146/SC 6 — setting international standards for the assessment of indoor air quality | Germany | B14: Policy, standards & regulations | oral |
| <u>HP1198</u> | Noonan, Jack | Vyt P. Garnys | Indoor environment quality and NABERS IE ratings: a case study of a commercial office building portfolio of twenty six Australian buildings | Australia | B14: Policy, standards & regulations | oral-poster |
| HP0731 | Oh, Suhyun | Siwon Yang, Yoonshin Kim, Sunsook Kim | Development of the IAQ certification scheme for public use facilities in Korea | Korea South | B14: Policy, standards & regulations | oral |
| HP1014 | Persily, Andrew | | Indoor Air Quality in high performance buildings: what is and isn't in ASHRAE/IES/USGBC Standard 189.1 | USA | B14: Policy, standards & regulations | oral |
| HP0949 | Pouzaud , Francois | Cécilia Solal, Valérie Pernelet-Joly, Marion Keirsbulck, Guillaume Boulanger, Pierre-André Cabanes, Corinne Mandin, The Anses Expert Group on Iaqg | Setting of chronic indoor air quality guideline for nitrogen dioxide: evidence-based approach using epidemiological studies | France | B14: Policy, standards & regulations | oral-poster |
| <u>HP0165</u> | Schiavon, Stefano | Sergio Altomonte | Influence of factors unrelated to environmental quality on occupant satisfaction in leed and non-leed certified buildings | United Kingdom | B14: Policy, standards & regulations | oral |
| HP0634 | Sukarno, Iwan | Hiroshi Matsumoto, Ryushi Kimura, Lusi Susanti | Factors affecting residential energy consumption in regional cities of Indonesia | Japan | B14: Policy, standards & regulations | oral |
| HP1158 | Wai, Kee-Neng | Benjamin Wai, Frederick Lee, Denis Wong | "Big Data" for IAQ profile monitoring and building management | Hong Kong | B14: Policy, standards & regulations | oral-poster |

| <u>HP1406</u> | Wargocki, Pawel | Paolo Carrer, Eduardo De Oliveira Fernandes, Otto Hänninen, Stylianos Kephalopoulos, Healthvent Group | Guidelines for health-based ventilation in Europe | Denmark | B14: Policy, standards & regulations | oral |
|---------------|-----------------|---|---|-------------|--------------------------------------|-------------|
| <u>HP0055</u> | Ye, Wei | Xu Zhang, Doyun Won | A preliminary ventilation rate study for residential buildings and offices based on VOC emission database | China | B14: Policy, standards & regulations | oral |
| <u>HP1144</u> | Yoo, Seung-Ho | J.H. Yang, J.R. Sohn, J.Y. Sohn | The institutional evaluation standard for solar architecture | Korea South | B14: Policy, standards & regulations | oral-poster |

| <u>HP0538</u> | Arai, Keitaro | Masayuki Ogata, Mai Fujiwara, Hitomi Tsutsumi, Shoichi Morimoto, Shin-Ichi Tanabe, Satoshi Hori, Takao Ariga | Evaluation of infection-control effectiveness through use of an infection-control bed | Japan | C1: Respiratory infection in indoor environment | oral-poster |
|----------------|-------------------|---|---|----------------|---|-------------|
| HP0898 | Azimi, Parham | Brent Stephens | HVAC filtration for controlling airborne influenza transmission in indoor environments: predicting risk reductions and operational costs | USA | C1: Respiratory infection in indoor environment | oral |
| HP0092 | Chen, Chun | Chao-Hsin Lin, Qingyan Chen | Developing simplified models for the exhaled airflow from a cough with the mouth covered | USA | C1: Respiratory infection in indoor environment | oral |
| HP0702 | Gao, Caroline | Yuguo Li, Benjamin J. Cowling, Daniel Chu, Heilbronn Cherie, Belinda Lloyd, J.S. Malik Peiris, Wendy Tsui, Alfred Kwong, Kitty Chan, Julian W. Tang | Lack of influenza transmission to an inhaling life-like manikin from naturally influenza-infected human volunteers | Canada | C1: Respiratory infection in indoor environment | oral |
| HP0533 | Hirase, Kota | Nguyen Lu Phuong, Shin-Ichiro Aramaki, Kazuhide Ito | Visualization of air flow patterns in human respiratory tract by particle image velocimetry | Japan | C1: Respiratory infection in indoor environment | oral |
| <u>HP0732</u> | Kadota, Yosuke | Sung-Jun Yoo, Toshiki Matsuo, Nguyen Lu Phuong, Kazuhide Ito | Development of computer simulated person with numerical airway model. Part 3: breathing air quality prediction using improved unsteady breathing flow model | Japan | C1: Respiratory infection in indoor environment | oral |
| <u> HP0532</u> | Matsuo, Toshiki | Sung-Jun Yoo, Nguyen Lu Phuong, Kazuhide Ito | Development of computer simulated person with numerical airway model. Part 1 analysis of breathing contaminant concentration and respiratory exposure | Japan | C1: Respiratory infection in indoor environment | oral |
| <u> HP0554</u> | Mendes, Ana | Lívia Aguiar, Cristiana Pereira, Paula Neves, Susana Silva, Diana Mendes, Teresa Palmeiro, Iolanda Caires, Amália Botelho, Pedro Martins, Nuno Neuparth, João Paulo Teixeira | Respiratory health in older people living in elderly care centers in Portugal | Portugal | C1: Respiratory infection in indoor environment | oral-poster |
| HP0196 | Morimoto, Shoichi | Huaipeng Tang, Shin-Ichi Tanabe, Hitomi Tsutsumi, Satoshi Hori | Reduction of droplet nuclei in 4 bed room | Japan | C1: Respiratory infection in indoor environment | oral |
| HP0663 | Ogata, Masayuki | Masakazu Suzuki, Shin-Ichi Tanabe, Satoshi Hori, Shoichi Morimoto, Hitomi Tsutsumi | Size of multibed patient room and airborne infection risk | Japan | C1: Respiratory infection in indoor environment | oral |
| <u> IP0931</u> | Sung, Minki | Soonjung Kwon | Estimating of the air migration from negative pressure isolation ward by the movements of staffs using network model | Korea South | C1: Respiratory infection in indoor environment | oral-poster |
| <u> HP1065</u> | Taylor, Jonathon | Hector Altamirano-Medina, Clive Shrubsole, Payel Das, Phillip Biddulph, Michael Davies, Anna Mavrogianni, Eleni Oikonomou | Tuberculosis transmission: modelled impact of airtightness in dwellings in the UK | United Kingdom | C1: Respiratory infection in indoor environment | oral |
| HP0783 | Wang, Jiahui | Baizhan Li, Wei Yu, Han Wang, Juan Wang | Decorated housing environment and its associations with asthma and allergies among Chongqing pre-school children | China | C1: Respiratory infection in indoor environment | oral-poster |
| HP0012 | Wei, Jianjian | Julian W. Tang, Azadeh A.T. Borojeni, Warren H. Finlay, Yuguo Li | Inhalation of exhaled flow during human normal (nasal) breathing | Hong Kong | C1: Respiratory infection in indoor environment | oral |
| <u> IP0534</u> | Yamashita, Masato | Nguyen Lu Phuong, Kota Hirase, Kazuhide Ito | Numerical simulation of airflow, heat and particle transfer in human respiratory system | Japan | C1: Respiratory infection in indoor environment | oral |
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| <u>HP0287</u> | Yang, Caiqing | Xudong Yang, Bin Zhao | Person to person airborne particles cross transmission in vertical laminar air flow room | China | C1: Respiratory infection in indoor environment | oral |
|---------------|----------------|---------------------------|---|-----------|---|-------------|
| <u>HP0301</u> | Yang, Wenwen | Naiping Gao | The airborne transmission of infection due to the stack effect in high-rise residential buildings | China | C1: Respiratory infection in indoor environment | oral |
| <u>HP0541</u> | Yoo, Sung-Jun | | Development of computer-simulated person with numerical airway model. Part 2: improved thermo- regulation model with heat and moisture transfer detail analysis in respiratory tract | Japan | C1: Respiratory infection in indoor environment | oral |
| <u>HP1049</u> | You, Siming | Man Pun Wan, Jinwen Xiong | An infection risk assessment scheme incorporating the effect of walking-induced particle resuspension | Singapore | C1: Respiratory infection in indoor environment | oral |
| <u>HP0016</u> | Mousavi, Ehsan | Kevin R. Grosskopf | Ventilation and transport of bioaerosols in healthcare environment- new insight into hospital corridor design | USA | C1: Respiratory infection in indoor environment | oral-poster |

| <u>HP0389</u> | Blanchard, Olivier | Philippe Glorennec, Fabien Mercier, Nathalie Bonvallot, Cécile Chevrier, Olivier Ramalho, Corinne Mandin, Barbara L.E. Bot | Semi-volatile organic compounds in indoor air and settled dust in 30 French dwellings | France | C2: New chemical substances in buildings | oral |
|---------------|---------------------|---|--|----------------|--|-------------|
| <u>HP0429</u> | Bohlin, Pernilla | Lisa Melymuk, Petr Kukučka, Roman Prokeš, Šimon Vojta, Jana Klánová | Novel brominated flame retardants in non-industrial indoor air: occurrence and evaluation of a passive air sampler | Czech Republic | C2: New chemical substances in buildings | oral |
| <u>HP0086</u> | Glorennec, Philippe | Corinne Mandin, Fabien Mercier, Olivier Blanchard, Kevin Fournier, Olivier Ramalho, Jean- Paul Lucas, Nathalie Bonvallot, Barbara Le Bot | Cumulative indoor exposures to Semi-Volatile Organic Compounds (SVOCs) in France: progress of the ECOS project | France | C2: New chemical substances in buildings | oral |
| <u>HP1164</u> | Huang, Chun-nan | Wei-Lun Lee, Hong-Bin Cho, Chin-Chi Wu, Pei- Ling Lee, Chia-Wei Lee | The associations between phthalates in indoor dust and house-cleaning habits | Taiwan | C2: New chemical substances in buildings | oral |
| HP1386 | Jiang, Fang | Huan Chen, Shourong Zheng | Catalytic combustion of ethyl acetate on Al2O3 supported chromia catalysts | China | C2: New chemical substances in buildings | oral-poster |
| <u>HP1222</u> | Lazarov, Borislav | Marianne Stranger, Frederick Maes, Eddy Goelen, Adrian Covaci | Optimisation of an innovative sampling method for air sampling flame retardants | Belgium | C2: New chemical substances in buildings | oral-poster |
| <u>HP0716</u> | Le Bot, Barbara | Charline Warembourg, Fabien Mercier, Erwann Gilles, Gaëlle Raffy, Olivier Blanchard, Nathalie Bonvallot, Cécile Chevrier, Philippe Glorennec | Neurotoxic Semi Volatile Organic Compounds (SVOCs) in house settled dust: contamination and determinants | France | C2: New chemical substances in buildings | oral |
| <u>HP1015</u> | Mandin, Corinne | Fabien Mercier, Jean-Paul Lucas, Olivier Ramalho, Olivier Blanchard, Nathalie Bonvallot, Gaëlle Raffy, Erwann Gilles, Philippe Glorennec, Barbara Le Bot | ECOS-POUSS: a nationwide survey of semi-volatile organic compounds in home settled dust | France | C2: New chemical substances in buildings | oral |
| <u>HP1017</u> | Mandin, Corinne | Fabien Mercier, Jean-Paul Lucas, Olivier Ramalho, Erwann Gilles, Olivier Blanchard, Nathalie Bonvallot, Philippe Glorennec, Barbara Le Bot | ECOS-PM: a nationwide survey of semi-volatile organic compounds in indoor air | France | C2: New chemical substances in buildings | oral |
| HP0126 | Poppendieck, Dustin | Steve Nabinger, Matthew Schlegel, Andrew Persily | Long term emissions from spray polyurethane foam insulation | USA | C2: New chemical substances in buildings | oral |
| <u>HP0518</u> | Xu, Ying | Yirui Liang, Jorge R. Urquidi, Jeffrey A. Siegel | Phthalates and PBDES in retail stores | USA | C2: New chemical substances in buildings | oral |
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| Bekö, Gabriel | Birthe Uldahl Kjeldsen, Yulia Olsen, Aneta Wierzbicka, Dorina Gabriela Karottki, Jørn Toftum, Steffen Loft, Geo Clausen | Ultrafine particles in 60 Danish homes: measurements in the homes and personal monitoring | Denmark | C3: Nanoparticles in indoor environment | oral |
|-------------------|--|--|---|--|---|
| Bohgard, Mats | Maria Albin, Katrin Dierschke, Anders Gudmundsson, Inger Hagerman, Christina Isaxon, Jonas Jakobsson, Bo Ag Jönsson, Jörn Nielsen, Patrik Nilsson, Joakim H. Pagels, Yiyi Xu, Aneta Wierzbicka | Human exposure studies of airborne particles from common sources | Sweden | C3: Nanoparticles in indoor environment | oral-poster |
| Buonanno, Giorgio | Luca Stabile, Giorgio Ficco, Rohan Jayaratne, Lidia Morawska | Measurement of cooking-generated particle charge | Italy | C3: Nanoparticles in indoor environment | oral-poster |
| Chen, Yen-Ping | Ke-Ruoyang, Kuo-Pin Yu | Exposure to and health risk assessment for particulate matters and polycyclic aromatic hydrocarbons from household cooking in Taiwan | Taiwan | C3: Nanoparticles in indoor environment | oral |
| Rai, Aakash | Chun Chen, Chao-Hsin Lin, Qingyan Chen | Numerical modeling of ozone-initiated particle generations from reactions with clothing in an environmental chamber | USA | C3: Nanoparticles in indoor environment | oral |
| Wu, Xin | Lina Wang, Ling Feng, Guangli Xiu, Chun Zhu, Mingzhou Yu | Characteristics of fine particles and black carbon emitted from different Chinese cooking methods | China | C3: Nanoparticles in indoor environment | oral |
| Wu, Yi-Ying | Yen-Ping Chen, Kuo-Pin Yu | Removal of monodisperse and polydisperse submicron particles in a stainless steel test chamber by using a negative air ionizer | Taiwan | C3: Nanoparticles in indoor environment | oral-poster |
| | Bohgard, Mats Buonanno, Giorgio Chen, Yen-Ping Rai, Aakash Wu, Xin | Bekö, Gabriel Wierzbicka, Dorina Gabriela Karottki, Jørn Toftum, Steffen Loft, Geo Clausen Maria Albin, Katrin Dierschke, Anders Gudmundsson, Inger Hagerman, Christina Isaxon, Jonas Jakobsson, Bo Ag Jönsson, Jörn Nielsen, Patrik Nilsson, Joakim H. Pagels, Yiyi Xu, Aneta Wierzbicka Buonanno, Giorgio Luca Stabile, Giorgio Ficco, Rohan Jayaratne, Lidia Morawska Chen, Yen-Ping Ke-Ruoyang, Kuo-Pin Yu Rai, Aakash Chun Chen, Chao-Hsin Lin, Qingyan Chen Wu, Xin Lina Wang, Ling Feng, Guangli Xiu, Chun Zhu, Mingzhou Yu | Bekö, Gabriel Wierzbicka, Dorina Gabriela Karottki, Jørn Toftum, Steffen Loft, Geo Clausen Maria Albin, Katrin Dierschke, Anders Gudmundsson, Inger Hagerman, Christina Isaxon, Jonas Jakobsson, Bo Ag Jönsson, Jörn Nielsen, Patrik Nilsson, Joakim H. Pagels, Yiyi Xu, Aneta Wierzbicka Buonanno, Giorgio Luca Stabile, Giorgio Ficco, Rohan Jayaratne, Lidia Morawska Measurement of cooking-generated particle charge Exposure to and health risk assessment for particulate matters and polycyclic aromatic hydrocarbons from household cooking in Taiwan Numerical modeling of ozone-initiated particle generations from reactions with clothing in an environmental chamber Wu, Xin Lina Wang, Ling Feng, Guangli Xiu, Chun Zhu, Mingzhou Yu Wen-Ping Chen, Kuo-Pin Yu Ultratine particles in 60 Danish nomes: measurements in the homes and personal monitoring Human exposure studies of airborne particles from common sources Human exposure studies of airborne particles from common sources Measurement of cooking-generated particle charge Exposure to and health risk assessment for particulate matters and polycyclic aromatic hydrocarbons from household cooking in Taiwan Numerical modeling of ozone-initiated particle generations from reactions with clothing in an environmental chamber Characteristics of fine particles and black carbon emitted from different Chinese cooking methods Removal of monodisperse and polydisperse submicron particles in a stainless steel test chamber by using a | Bekö, Gabriel Wierzbicka, Dorina Gabriela Karottki, Jørn Toftum, Steffen Loft, Geo Clausen Maria Albin, Katrin Dierschke, Anders Gudmundsson, Inger Hagerman, Christina Isaxon, Jonas Jakobsson, Bo Ag Jönsson, Jörn Nielsen, Patrik Nilsson, Joakim H. Pagels, Yiyi Xu, Aneta Wierzbicka Buonanno, Giorgio Luca Stabile, Giorgio Ficco, Rohan Jayaratne, Lidia Morawska Exposure to and health risk assessment for particulate matters and polycyclic aromatic hydrocarbons from household cooking in Taiwan Numerical modeling of ozone-initiated particle generations from reactions with clothing in an environmental chamber Wu, Xin Lina Wang, Ling Feng, Guangli Xiu, Chun Zhu, Mingzhou Yu Ven-Ping Chen, Kuo-Pin Yu Denmark Human exposure studies of airborne particles from Sweden Sweden Sweden Numerical modeling of cooking-generated particle charge matters and polycyclic aromatic hydrocarbons from household cooking in Taiwan Numerical modeling of ozone-initiated particle generations from reactions with clothing in an environmental chamber Characteristics of fine particles and black carbon emitted from different Chinese cooking methods Removal of monodisperse and polydisperse submicron particles in a stainless steel test chamber by using a Taiwan | Bekö, Gabriel Wierzbicka, Dorina Gabriela Karottki, Jørn Toftum, Steffen Loft, Geo Clausen Maria Albin, Katrin Dierschke, Anders Gudmundsson, Inger Hagerman, Christina Isaxon, Jonas Jakobsson, Bo Ag Jönsson, Jörn Nielsen, Patrik Nilsson, Joakim H. Pagels, Yiyi Xu, Aneta Wierzbicka Buonanno, Giorgio Luca Stabile, Giorgio Ficco, Rohan Jayaratne, Lidia Morawska Chen, Yen-Ping Ke-Ruoyang, Kuo-Pin Yu Measurement of cooking-generated particle charge Exposure to and health risk assessment for particulate matters and polycyclic aromatic hydrocarbons from household cooking in Taiwan Numerical modeling of ozone-initiated particle generations with clothing in an environment Wu, Xin Lina Wang, Ling Feng, Guangli Xiu, Chun Zhu, Mingzhou Yu Ven-Ping Chen, Kuo-Pin Yu Denmark C3: Nanoparticles in indoor environment Human exposure studies of airborne particles from common sources Measurement of cooking-generated particle charge Italy C3: Nanoparticles in indoor environment Taiwan C3: Nanoparticles in indoor environment

| <u>HP0198</u> | Brimblecombe, Peter | | The impact of indoor air on historic interiors under climate change | Hong Kong | C4: Climate change and indoor environment | oral |
|---------------|----------------------|--|---|----------------|---|-------------|
| HP1058 | Hsu, Nai-Yun | Yen-Hsu Lin, Han-Yu Shih, Yu-Chun Liu, Chao- Yu Guo, Huey-Jen Su | Predictive model of indoor temperature from ambient levels | Australia | C4: Climate change and indoor environment | oral |
| <u>HP1447</u> | Jaakkola, Jouni | | Public health impact of indoor dampness and mold problems in the context of climate change | Finland | C4: Climate change and indoor environment | oral |
| <u>HP1452</u> | Jantunen, Matti | | Greenhouse effect and climate change – and indoor air | Finland | C4: Climate change and indoor environment | oral-poster |
| <u>HP1437</u> | Lee, Daeyeop | Boram Lee, Sooyoung Guak, Kiyoung Lee | Indoor and outdoor thermal conditions in three types of economically disadvantaged residences during summer | Korea South | C4: Climate change and indoor environment | oral-poster |
| HP0115 | Pakpour, Sepideh | De-Wei Li , John Klironomos | Climatic drivers of airborne fungal spore concentrations in two North American cities | Canada | C4: Climate Change and Indoor Environment | oral |
| <u>HP0794</u> | Sailor, David | | Risks of extreme thermal conditions in buildings associated with climate change and exacerbation of the urban heat island | USA | C4: Climate change and indoor environment | oral |
| HP1352 | Simone, Angela | Marta Avantaggiato, Michele De Carli, Bjarne W. Olesen | Analyses of passive cooling strategies' effect on overheating in low-energy residential buildings in Danish climate | Denmark | C4: Climate change and indoor environment | oral |
| HP0450 | Vardoulakis, Sotiris | John Thornes, Ka-Man Lai, Sani Dimitroulopoulou, Isabella Myers, Clare Heaviside | Health effects of climate change in the UK indoor environment – a critical review | United Kingdom | C4: Climate change and indoor environment | oral |
| <u>HP1423</u> | Wang, Zhaoxia | Neng Zhu | Study on the design schemes of fresh air supplement in office buildings | China | C4: Climate change and indoor environment | oral |

| <u>HP1226</u> | Bayer, Charlene | | Materials transparency programs, emissions testing, and health impacts | USA | C5: Environmental impact of buildings | oral-poster |
|---------------|-----------------------|---|---|-------------|---------------------------------------|-------------|
| HP1135 | Kim, Si Eun | Jae Hun Oh, Young Ki Huh, Young Chull Ahn, Jong Wook Moon | A study on the thermal effects of green roof system in an existing building | Korea South | C5: Environmental impact of buildings | oral-poster |
| <u>HP1338</u> | Krejcirikova, Barbora | Carsten Rode, Jakub Kolarik, Pawel Wargocki, Ruut H. Peuhkuri | Waste-based materials; capability, application and impact on indoor environment – literature review | Denmark | C5: Environmental impact of buildings | oral |
| <u>HP1028</u> | Liu, Jiying | Mohammad Heidarinejad, Stefan Gracik, Daranee Jareemit, Jelena Srebric | The impact of surface convective heat transfer coefficients on the simulated building energy consumption and surface temperatures | USA | C5: Environmental impact of buildings | oral-poster |
| <u>HP0969</u> | Teichman, Kevin | Andrew Persily | Indoor air quality: the forgotten, yet critical, element in sustainable buildings | USA | C5: Environmental impact of buildings | oral |
| <u>HP0850</u> | Wang, Kai | Yuguo Li, Yuhui Li, Meng Yuan | Impact of urban building morphology on air temperature: a case study in the stone forest | Hong Kong | C5: Environmental impact of buildings | oral |
| <u>HP0950</u> | Wang, Xiaoxue | Yuguo Li | Understanding and modelling urban-breeze circulation by up-scaling CFD | Hong Kong | C5: Environmental impact of buildings | oral |
| <u>HP1453</u> | Wang, Yi | Yuguo Li, Pak Wai Chan | Urban moisture balance in Hong Kong | Hong Kong | C5: Environmental impact of buildings | oral |
| <u>HP0479</u> | Yang, Jin-ho | Hyun-Tae Kim, Shin-Ichi Tanabe | How to apply approved LEED simulation for sustainable buildings in Japan | Japan | C5: Environmental impact of buildings | oral |
| <u>HP0643</u> | Yang, Xinyan | Yuguo Li | Solar radiation heat gain in an urban area | Hong Kong | C5: Environmental impact of buildings | oral |
| <u>HP0978</u> | Yin, Shi | Yuguo Li | The rising of urban buoyant plume from high-rise compact buildings in turbulent crossflows | Hong Kong | C5: Environmental impact of buildings | oral |
| <u>HP1156</u> | Yin, Shi | Mats Sandberg, Yuguo Li | Water tank investigation of single and multiple buoyant plumes from squared blocks in calm environment | Hong Kong | C5: Environmental impact of buildings | oral |
| HP1119 | Zhao, Lihua | Kunming Li | Study on outdoor thermal environment of village in pearl river delta region | China | C5: Environmental impact of buildings | oral-poster |
| <u>HP1446</u> | Chow, Tin-Tai | Kwong-Fai Fong, Tengfei Zhao, Apple Chan | Effectiveness of green roof as thermal barrier for air- conditioned offices in Hong Kong | Hong Kong | C5: Environmental impact of buildings | oral |

| HP1008 | Akimoto, Takashi | Ken Aozasa, Yusuke Yamada, Takuma Sato, Masayuki Sato, Aki Mizuta | Performance evaluation on double multi GHP in school building | Japan | C6: Low energy buildings | oral-poster |
|----------------|-----------------------|---|---|-------------|--------------------------|--------------|
| <u>HP1212</u> | Bagoňa, Miloslav | Martin Kamenský, Martin Lopušniak | Improvement of indoor environment and its effect on the heat demand for heating and cooling of house | Slovakia | C6: Low energy buildings | oral-poster |
| HP1445 | Chow, Tin-Tai | Hui Long, Yuanli Lyu | Innovative solar facades for low-energy building application | Hong Kong | C6: Low energy buildings | oral |
| <u>IP0891</u> | Croitoru, Cristiana | Ilinca Nastase, Florin I. Bode, Amina Meslem | Innovative solar facade implementation in low energy buildings | Romania | C6: Low energy buildings | oral |
| <u> HP0233</u> | Derbez, Mickaël | Bruno Berthineau, Valérie Cochet, Corinne Mandin, Cécile Pignon, Jacques Riberon, Guillaume Wyart, Severine Kirchner | Longitudinal study of indoor air quality and comfort of two low-energy single-family houses | France | C6: Low energy buildings | oral |
| HP0279 | Derbez, Mickaël | Jean-Paul Lucas, Olivier Ramalho, Jacques Riberon, Corinne Mandin, Séverine Kirchner | French national data collection system on indoor air quality and comfort in energy-efficient buildings | France | C6: Low energy buildings | oral |
| HP0037 | Feng, Jingjuan (Dove) | Fred Bauman, Stefano Schiavon | Critical review of water based radiant cooling system design methods | USA | C6: Low energy buildings | oral-poster |
| HP0329 | Gong, Nan | Jijun Zhou, Simeng Liu, Steven Esparza, Uthaman Raju | Air flow setback strategies for hospital energy saving | USA | C6: Low energy buildings | oral |
| <u>HP1357</u> | Gong, Nan | Jijun Zhou, Simeng Liu, Steven Esparza, Uthaman Raju | Air flow rate control strategies and energy saving for operating rooms | USA | C6: Low energy buildings | oral-poster |
| <u>-IP0613</u> | Harada, Naoyuki | Shin-Ichi Tanabe, Asami Nagareda, Eriko Kuzuu, Mitsunobu Abe, Masanori Oshikubo, Yuka Nakamura, Haruo Oshima, Shinji Wada, Hiroaki Taguchi | Taking into account heat and daylight to verify and improve a multistory double-skin facade | Japan | C6: Low energy buildings | oral |
| <u>IP0989</u> | Hartikainen, Samuel | Kari Salmi, Maija Leppänen, Marko Hyttinen, Erkki Kähkönen, Rauno Holopainen, Pertti Pasanen | Semi-volatile and volatile organic compounds in low- energy and conventionally built houses | Finland | C6: Low energy buildings | oral-poster |
| HP0051 | Huang, Yu | Jian-Lei Niu, Tse-Ming Chung | Experimental study on performance of interior blind in office buildings in Hong Kong | Hong Kong | C6: Low energy buildings | oral |
| HP0052 | Huang, Yu | Jian-Lei Niu, Tse-Ming Chung | Simulation study of shading design performance in office buildings in cooling-dominant climates | Hong Kong | C6: Low energy buildings | oral |
| <u>HP1173</u> | Hwang, Hyokeun | Togo Yoshidomi, Kentaro Sekine, Shinsuke Kato | Analysis of the convection-radiation heat dissipation from the equipment for the development of liquid cooling air- conditioning system | Japan | C6: Low energy buildings | oral |
| <u> 1P0296</u> | Iatauro, Domenico | Michele Zinzi | Assessment of the thermal comfort conditions in an high efficiency energy renovation of an Italian school building | Italy | C6: Low energy buildings | oral-poster |
| HP1136 | Jeong, Ah Hee | Young Chull Ahn, Byung Heon Jeon, Jung Sub Seo | Performance evaluation of air-bubble sheets as a thermal insulator for window system | Korea South | C6: Low energy buildings | oral-poster |
| IP0544 | Kajiya, Ryoichi | Toshihiko Sudo, Koji Sakai | Measurement and CFD analysis of the temperature and air velocity distribution in a double skin | Japan | C6: Low energy buildings | oral-poster |
| IP1174 | Kawahara, Daisuke | Kyosuke Hiyama, Shinsuke Kato | Low-energy effectiveness of dynamic insulation system for windows | Japan | C6: Low energy buildings | oral |
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| <u>HP0793</u> | Kitagawa, Shogo | Masaya Okumiya | Life cycle energy management for the heat source of large- scale hospital preliminary design of heat source system | Japan | C6: Low energy buildings | oral |
|----------------|-----------------------|---|--|----------------|--------------------------|--------------|
| <u>HP0509</u> | Kmeťková, Jana | Michal Krajčík | Cost optimal evaluation of energy performance requirements on apartment buildings to comply with the energy performance of buildings directive | Slovakia | C6: Low energy buildings | oral-poster |
| HP1021 | Knudsen, Henrik | Ole M. Jensen | Indoor climate perceived as improved after energy retrofitting of single-family houses | Denmark | C6: Low energy buildings | oral |
| HP0814 | Kobayashi, Kentaro | Takashi Kurabuchi, Sihwan Lee, Jinya Takeuchi | Using natural ventilation with water mist sprayers for data center energy conservation | Japan | C6: Low energy buildings | oral-poster |
| <u> IP0056</u> | Lai, Chi-Ming | Y.H. Wang | Energy-saving potential of building envelope designs in residential houses in Taiwan | Taiwan | C6: Low energy buildings | oral-poster |
| <u> IP0380</u> | Langer, Sarka | Erica Bloom, Gabriel Bekö | Indoor environment in Swedish passive houses | Sweden | C6: Low energy buildings | oral |
| HP0298 | Laverge, Jelle | Arnold Janssens, Marianne Stranger, Stijn Verbeke, Kim Constandt, Katrien De Baets | Air leakage and compliance with building code ventilation requirements in low energy dwellings and schools in Belgium | Belgium | C6: Low energy buildings | oral |
| HP0655 | Lee, Suk-Joo | Kyung-Woo Kwon, Jun-Seok Park | Heating and cooling energy performance of commercial buildings | Korea South | C6: Low energy buildings | oral |
| <u>HP0432</u> | Lima, Pedro | Joaquim F. Monteiro, Olga S. Castro | Impact of design options in zero energy building conception: the case of large buildings in Portugal | Portugal | C6: Low energy buildings | oral-poster |
| <u>HP0381</u> | Liu, Peng | Maria Justo Alonso, Mohammad Rafatinasr, Hans Martin Mathisen, Carey Simonson | Frosting limits for counter-flow Membrane Energy Exchanger (MEE) in cold climates | Norway | C6: Low energy buildings | oral |
| HP1358 | Liu, Xiaoping | Jianlei Niu | An optimal design analysis method for heat recovery heat exchangers in building applications | Hong Kong | C6: Low energy buildings | oral-poster |
| HP0348 | Lv, Liugen | Chen Huang, Li Li, Jiangchang Chen | Comparative study on radiant heat transfer in building inner surface based on different radiant models | China | C6: Low energy buildings | oral |
| HP0419 | Maccarini, Alessandro | Alireza Afshari, Niels C. Bergsøe, Göran Hultmark, Magnus Jacobsson, Anders Vorre | Innovative two-pipe active chilled beam system for simultaneous heating and cooling of office buildings | Denmark | C6: Low energy buildings | oral |
| <u>HP1292</u> | Martinez, Andrea | Joon-Ho Choi | Evidence-based model of building façade features using data mining for assessment of building performance | USA | C6: Low energy buildings | oral |
| <u> IP0391</u> | McGill, Gráinne | Menghao Qin, Lukumon Oyedele | Comparison of indoor air quality in mechanically ventilated and naturally ventilated social housing- a case study | United Kingdom | C6: Low energy buildings | oral-poster |
| HP0478 | Meng, Zhaozhou | Michael Pelken, Jianshun Zhang, Daniel Rice, Yixing Chen, Shewangizaw Semahegn, Lixing Gu, Hugh Henderson | "Magic cube": an integrated and coordinated process for performance-based building design | USA | C6: Low energy buildings | oral |
| HP1227 | Moon, Hyeun | Min Seok Choi | Evaluation of simulation based control for a VRF system with different simulation time-steps | Korea South | C6: Low energy buildings | oral-poster |
| HP1201 | Moon, Hyeun Jun | Seung Ho Ryu | Model based predictive control for radiant floor heating system in a residential building | Korea South | C6: Low energy buildings | oral |
| HP1240 | Moon, Hyeun Jun | Young Ran Yoon | Measurement and verification for an energy performance evaluation in buildings with BEMS | Korea South | C6: Low energy buildings | oral |
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| <u>HP1409</u> | Ooi, Koon beng | Donald Payne, Seng Siew Yeoh | A sustainable retrofit and a better quality indoor air for a brick-veneer, raised-floor house in Victoria, Australia? | Australia | C6: Low energy buildings | oral |
|---------------|-----------------------|--|---|-----------|--------------------------|-------------|
| <u>HP0087</u> | Poppendieck, Dustin | Lisa Ng, Matthew Schlegel, Andrew Persily, Alfred Hodgson | Long term air quality monitoring in a net-zero energy residential test facility designed with specifications for low emitting interior products | USA | C6: Low energy buildings | oral |
| <u>HP0180</u> | Rey, Francisco | Antonio Villanueva, Manuel Andrés, And Eloy Velasco | IAQ and thermal comfort evaluation in a Spanish modern low-energy office with Thermally Activated Building (TAB) systems | Spain | C6: Low energy buildings | oral |
| <u>HP0430</u> | Schoemaecker, Coralie | Marie Verriele, Benjamin Hanoune, Denis Petitprez, Nathalie Leclerc, Malak Rizk, Sébastien Dusanter, Stéphane L.E. Calve, Maurice Millet, Pierre Bernhardt, Maxence Mendez, Nadège Blond, Didier Hauglustaine, Alain Clappier, Patrice Blondeau, Marc Abadie, Nadine Locoge | Experimental and modeling characterizations of indoor air quality in low energy public buildings in France – the MERMAID program | France | C6: Low energy buildings | oral-poster |
| <u>HP0623</u> | Silva, Nuno Alexandre | Pawel Wargocki | Do certified buildings enhance indoor environmental quality and performance of office work? | Denmark | C6: Low energy buildings | oral |
| <u>HP1343</u> | Stutterecker, Werner | Ernst Blümel | A low energy apartment house – a case study about energy and thermal comfort | Austria | C6: Low energy buildings | oral-poster |
| <u>HP0410</u> | Sudo, Toshihiko | Ryoichi Kajiya, Koji Sakai | Performance verification of the integrated optical air duct system (air-conditioning duct performance) | Japan | C6: Low energy buildings | oral-poster |
| <u>HP0171</u> | Tsay, Yaw-Shyan | Yu-Chun Yeh, Mina Tsai | Study on strategies for zero energy home design in Taiwan – a case study of a residential house in Yunlin | Taiwan | C6: Low energy buildings | oral |
| <u>HP0366</u> | Verriele, Marie | Coralie Schoemaecker, Benjamin Hanoune, Nathalie Leclerc, Nadine Locoge | Do Low Energy Public Buildings (LEPB) comply with the recent IAQ regulations in France? What about unregulated VOC? | France | C6: Low energy buildings | oral |
| <u>HP0327</u> | Wang, Fang | Dan Meng, Xiuwei Li, Junjie Tan | Field experiments on the thermal performance of double skin façade building in hot summer | China | C6: Low energy buildings | oral |
| <u>HP0272</u> | Wang, Pengsu | Ming Shan, Xudong Yang | Thermal performance of a new Chinese Kang with forced convection air flow | China | C6: Low energy buildings | oral |
| <u>HP0689</u> | Wang, Yi | Chandra Sekhar, William P. Bahnfleth, Sundaram Karuppaiah | Effectiveness of Ultraviolet Germicidal Irradiation (UVGI) systems in air handling units in enhancing energy performance | Singapore | C6: Low energy buildings | oral |
| <u>HP0861</u> | Xue, Fei | Xiaofeng Li | A fast calculation method for indoor heat gain of external respiration double-skin façades in cooling season | China | C6: Low energy buildings | oral-poster |
| <u>HP0268</u> | Yang, Le | Jianjun Xia, Qi Shen | Establishing energy consumption quota for assessing a group of government office buildings | China | C6: Low energy buildings | oral |
| HP1047 | Yau, Yat | Keng H. Chuah, Ming R. Tey, Pak N. Yip, Cheng S. Lim, Tet H. Chong, Krishnan Rajagopal | Feasibility study of using heat recovery devices in HVAC systems in a building in the tropics | Malaysia | C6: Low energy buildings | oral |
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| <u>HP1321</u> | You, Wei | Menghao Qin, Wowo Ding | Energy analysis of building exterior opening design using integrated simulation of day-lighting, thermal performance and natural ventilation | China | C6: Low energy buildings | oral |
|---------------|----------------|---------------------------------------|--|-----------|--------------------------|-------------|
| <u>HP1324</u> | Yuan, Chen | Menghao Qin, Jianshun J. Zhang | "Virtual Deseign Studio" for hot and humid climate in china | China | C6: Low energy buildings | oral |
| <u>HP0739</u> | Zhang, Shuo | | Low energy buildings integrated nocturnal radiation cooling and thermal energy storage | China | C6: Low energy buildings | oral |
| <u>HP0755</u> | Zhang, Xiaojie | Jie Han, Guoqiang Zhang, Di Qin | A review on hybrid ventilation | China | C6: Low energy buildings | oral-poster |
| <u>HP0386</u> | Zhang, Xiyao | Jianlei Niu, Shuo Zhang, Jian-Yong Wu | The PCM-water emulsion with low supercooling | Hong Kong | C6: Low energy buildings | oral |
| <u>HP0263</u> | Zhao, Deyin | Xu Zhang, Ming Zhong | A field survey study on energy consumption of office buildings with VRV system | China | C6: Low energy buildings | oral |

| <u>HP0952</u> | Abadie, Marc | Géraldine L.E. Nir, Jérôme Nicolle, Cécile Honore, Patrice Blondeau, Anne Kauffman | Indoor air quality in metro systems: a survey | France | C7: Transport cabin environments | oral |
|---------------|-------------------|---|--|-------------|----------------------------------|-------------|
| <u>HP0184</u> | Cao, Xiaodong | Junjie Liu, Yun Zhang, Jiayu Li | High power 2D-PIV application in the measurement of air distribution in an aircraft cabin mockup | China | C7: Transport cabin environments | oral-poster |
| HP0451 | Chang, Li-Te | Chin-Sheng Tang, Shih-Chun Candice Lung | The effects of in-cabin exposures to multi-sized particulate matters and carbon monoxide on changes in heart rate variability for healthy public transit commuters | Taiwan | C7: Transport cabin environments | oral |
| HP0117 | Chen, Xiaokai | Lili Feng, Huilong Luo, Guoqiang Zhang | Objective assessment of airborne benzene and its homologues pollution in passenger cars | China | C7: Transport cabin environments | oral-poster |
| <u>HP0590</u> | Cho, Youngmin | Soon-Bark Kwon, Duck-Shin Park, Ji-Han Song, Woo-Sung Jung, Bo-Shik Yang, Jae-Hong Park | Effect of emissions from diesel locomotives on indoor air quality of passenger cabin | Korea South | C7: Transport cabin environments | oral |
| <u>HP0992</u> | Cho, Youngmin | Choong-Hee Lee, Duck-Shin Park, Soon-Bark Kwon, Woo-Sung Jung | Effect of additional insulation panel on average temperature in subway cabin during heating | Korea South | C7: Transport cabin environments | oral |
| HP1359 | Conceição, Sandro | Luis Carlos De Castro Santos, Arlindo Tribess | CFD and experimental study of expiratory droplets inside an aircraft cabin mock-up | Brazil | C7: Transport cabin environments | oral |
| <u>HP0111</u> | Guan, Jun | Xudong Yang Zheng Li | Source contributions and control strategies of Volatile Organic Compounds (VOCs) in aircraft cabins | China | C7: Transport cabin environments | oral |
| HP0045 | Houtzager, Marc | John B.G.A. Havermans, Jan G.H. Bos, Helgah Makarem Akhlaghi, Willie C. Hijman, Alex A.D. Renesse V. Duivenbode, Aleksandra D. Jedynska | Airliner cabin air quality: emissions of organophosphates originating from aircraft engine oil. Experimental lab simulation and measurements on flight. | Netherlands | C7: Transport cabin environments | oral |
| <u>HP0485</u> | Kim, Kyu-Jeong | In-Ryeol Lee, Man-Goo Kim | Evaluation of VOCs emissions from car interior console assembly and unit components | Korea South | C7: Transport cabin environments | oral-poster |
| <u>HP0320</u> | Kim, Man-Goo | In-Ryeol Lee, Kyu-Jeong Kim | Method for the determination of the emission of volatile organic chemicals from unit-component of car interior by using static chamber | Korea South | C7: Transport cabin environments | oral-poster |
| <u>HP1165</u> | Kwon, Soon-Bark | Jihan Song, Jong-Bum Kim, Gwang-Jae Lee, Seyoung Kim, Duck-Shin Park, Youngmin Cho, Wootae Jeong | Efficiency of the Subway Cabin Air Purifier (SCAP) for removing particulate matters in a subway cabin indoor | Korea South | C7: Transport cabin environments | oral |
| <u>HP0293</u> | Langer, Sarka | Jana Moldanová, Erica Bloom, Cecilia Österman | Indoor environment on-board the Swedish icebreaker oden | Sweden | C7: Transport cabin environments | oral |
| <u>HP0382</u> | Lee, In-Ryeol | Kyu-Jeong Kim And Man-Goo Kim | The cause material assessment of emitted VOCs at unit component by using the test method of cut part of vehicle interior | Korea South | C7: Transport cabin environments | oral-poster |
| HP0505 | Li, Bingye | Jingjing Pei, Congcong Wang, Junjie Liu, Xiaojin Xiao | Experimental study of cabin thermal comfort and air quality at different seasons | China | C7: Transport cabin environments | oral-poster |
| <u>HP1435</u> | Li, Qiong | Yikai Huang, Zhechao Chen, Xi Yu | A case study of the effect of parking vehicle on the outdoor thermal environment | China | C7: Transport cabin environments | oral |

| <u>HP0548</u> | Li, Zheng | Xudong Yang, Jun Guan | Source apportionment of particles in aircraft cabins: a preliminary study on the possible effect of aircraft age | China | C7: Transport cabin environments | oral |
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| <u>HP0421</u> | Ma, Pengzhen | Tengfei (Tim) Zhang, Shugang Wang | Prediction of inner aircraft surface temperature based on the onboard and the outboard coupling | China | C7: Transport cabin environments | oral |
| <u>HP0107</u> | Rai, Aakash | Chao-Hsin Lin, Qingyan Chen | Modeling of ozone-initiated VOC emisssions from reactions with human-worn clothing in an aircraft cabin | USA | C7: Transport cabin environments | oral |
| HP0401 | Rosén, Karl | | In-cabin air quality -electrostatic field to capture sub- micron size particles | Sweden | C7: Transport cabin environments | oral-poster |
| <u>HP0084</u> | Tatsu, Kouichi | Satoshi Nakai, Shinsuke Kato | A preliminary study of methods for in-car air quality measurement | Japan | C7: Transport cabin environments | oral-poster |
| <u>HP0824</u> | Wang, Congcong | Junjie Liu, Yongzhi Zhang | Accurate experimental measurements of flow boundary conditions for numerical simulations in an aircraft cabin mockup | China | C7: Transport cabin environments | oral |
| <u>HP0424</u> | Wang, Jihong | Hongbiao Zhou, Tengfei (Tim) Zhang, Shugang Wang | Inverse design of aircraft cabin environment based on proper decomposition of thermo-flow fields | China | C7: Transport cabin environments | oral |
| <u>HP0425</u> | Wei, Yun | Tengfei (Tim) Zhang, Shugang Wang | An efficient method to inversely design air-supply opening size for a commercial airplane | China | C7: Transport cabin environments | oral |
| <u>HP0154</u> | Widdowson, Caroline | | Vehicle interior air quality - (S)VOC emission from materials: regulation, standard methods and analytical implementation | United Kingdom | C7: Transport cabin environments | oral-poster |

| <u>HP1011</u> | Botzler, Sebastian | Jakub Kolarik, Bjarne W. Olesen | Investigating peoples' preferences of automated indoor climate control facilities | Denmark | D1: Smart and mobile technologies | oral |
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| <u>HP1337</u> | Fan, Jintu | | Impact of clothing on thermal comfort and energy saving in indoor environment | USA | D1: Smart and mobile technologies | oral |
| HP0043 | Habibi, Shahryar | | Development of smart micro-grid energy efficiency technologies on workplace level | Italy | D1: Smart and mobile technologies | oral-poster |
| HP1248 | Jeberien, Alexandra | Susanne Litty | Wireless climate monitoring devices for museums | Germany | D1: Smart and mobile technologies | oral-poster |
| HP0033 | Karmann, Caroline | Stefano Schiavon, Fred Bauman | Online map of buildings using radiant technologies | USA | D1: Smart and mobile technologies | oral |
| HP0900 | Kazanavicius, Egidijus | Romas Lukas, Antanas Mikuckas, Alfonsas Misevičius, Dainius Martuzevičius | Indoor air environment management system | Lithuania | D1: Smart and mobile technologies | oral-poster |
| <u>HP1266</u> | Storgaard, Kresten | Lars Gunnarsen, Elvira V. Bräuner | The Indoor as a scene for biological threats. involving users in making smart devices effective | Denmark | D1: Smart and mobile technologies | oral-poster |
| HP1367 | Wiesmüller, Gerhard | Claudia Hornberg | Risk assessment of exposure to Electromagnetic Fields (EMF) from smart and mobile technologies | Germany | D1: Smart and mobile technologies | oral |
| <u>HP1455</u> | Pillarisetti, Ajay | Michael A. Johnson, Tracy Allen, Charity R. Garland, Dana H. Charron, David M. Pennise, Kirk R. Smith | PATS+ field testing: Characterizing sensors and their responses to air pollutants and integrating stove usage datastreams for household energy assessments | USA | D1: Smart and Mobile Technologies | oral |

| <u>HP0041</u> | Bräuner, Elvira | Kresten Storgaard, Lars Gunnarsen | False positives in detection of biological-warfare agents | Denmark | D2: Wireless sensors and smartphone monitoring of indoor environment | oral-poster |
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| <u>HP1369</u> | Daniel, Lyrian | Andrew Carre, Terence Williamson, Dong Chen | Development and application of air movement logger for thermal comfort research | Australia | D2: Wireless sensors and smartphone monitoring of indoor environment | oral |
| <u>HP0498</u> | Huang, Gongsheng | Pei Zhou, Linfeng Zhang | Optimal location of wireless temperature sensor nodes in large-scale rooms | Hong Kong | D2: Wireless sensors and smartphone monitoring of indoor environment | oral |
| <u>HP0737</u> | Loo, Sin Ming | James A. Hall Jr., Joshua Kiepert, Michael Pook, Nicholas Terrell | A low-cost wireless portable particulate matter monitoring system | USA | D2: Wireless sensors and smartphone monitoring of indoor environment | oral-poster |
| <u>HP1121</u> | Qiao, Lifeng | Hao Zhou | Development of a wireless sensing system for monitoring indoor environment | China | D2: Wireless sensors and smartphone monitoring of indoor environment | oral |
| <u>HP1122</u> | Zhou, Hao | Lifeng Qiao | A big data approach for indoor environmental quality assessment, awareness and improvement | China | D2: Wireless sensors and smartphone monitoring of indoor environment | oral |

| <u>HP1378</u> | Dannemiller, Karen | Naomichi Yamamoto, Kyle Bibby, Jordan Peccia | Improving the quantification of fungal population analysis by next-generation DNA sequencing | USA | D3: Gene-sequencing and bio- informatics for indoor microbiology studies | oral |
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| <u>HP1427</u> | Scott, James | Kamyar Motavaze, Richard C. Summerbell, Eric Savory, John Pogacar | Improved biodeterioration resistance tests for building materials | Canada | D3: Gene-sequencing and bio- informatics for indoor microbiology studies | oral |

| <u>HP1408</u> | Tovey, Euan | Damien Liu-Brennan, Janet S Rimmer, Brian G. Oliver | New methods for measuring the time course of personal exposure to biological particles including aeroallergens | Australia | D4 New bio-monitoring technologies for indoor applications | oral |
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| <u>HP2001</u> | Liu, Jiaping | Stenson (- / Brown Jessica i (-reen Brendan i M.) | Generalized design principle and method for thermal insulation system in building envelope | China | Plenary talks | oral |
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| <u>HP2002</u> | Nielsen, Peter | Jingchao Xie, Na Cui, Song Pan | Computational fluid dynamics and ventilation airflow | Denmark | Plenary talks | oral |