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This is not the final program

at Reykjavik University, Menntavegur 1, Reykjavik, Iceland

Monday 9th June, 2025 Draft

V-101 Monday 9th June, 2025	IAQ	M-101 Monday 9th June, 2025	Thermal Comfort	V-102 Monday 9th June, 2025 8:30 Session Chair Introduction	Lighting and Noise	M-201 Monday 9th June, 2025	IAQ	V-201 Monday 9th June, 2025	IAQ
8:30 Session Chair Introduction Ventilation and air cleaning in the context of infection risk - results from two large Dutch	Presenter	8:30 Session Chair Introduction	Presenter	8:30 Session Chair Introduction An exploratory field study to identify the potential impact of working in	Presenter	8:30 Session Chair Introduction	Presenter	8:30 Session Chair Introduction Comparison of agar plate culture and molecular biology quantification of airborne	Presenter Delphine Deshaves
8.40 research projects	Marcel G.L.C. Loomans	Frequency of moisture problems/damages in housing in Iceland and health issues	Björn Marteinsson	8:40 daylight-deprived spaces in hospitals	Maud van den Boomen	Wildland Urban Interface Smoke: Household Response Guideline Evaluation	Dustin Poppendieck	8:40 microorganisms collected on air handling units filters	Delphine Deshayes
Partitioning of semi volatile organic compounds between air and textiles 8:52	Tunga Salthammer	8:52 Beyond linear regression: improving thermal comfort data analysis through visualisation	Matteo Favero	Quantifying the Effects of Window View Features on Occupant Satisfaction: A 8:52 Multilevel Analysis of Contributing Factors	Mandana Sarey Khanie	The PHARAON project: new bases for a cross-disciplinary standard to assess indoor air 852 mitigation	Frederic Thevenet	8.52 Influence of heat sources on personal protection performance of biological safety cabine	ts Ryota Muta
Should I open a window? Analysis of air change rates during cooking in real homes in 9:04 Bradford, UK	David Shaw	Enhancing healthy indoor thermal environment of low-income households in a hot-humid 9:04 climate through passive cooling interventions – A case of Abuja, Nigeria	Timothy Adekunle	Cross-modal effects of environmental factors on perception and bodily 9:04 responses	Philomena Bluyssen	Indoor air quality in university libraries at Lublin University of Technology – a case 9:04 study.	Marzenna Dudzinska	Relating Respiratory Aerosol Emission Rates, the Exhaled Carbon Dioxide Flux and the 9:04 Airborne Survival of Pathogens to Assess Transmission Risk in Indoor Environments	Jonathan Reid
Low-cost MOX sensor to detect indoor ppb-level VOC: a promote with Schottky barrier 9:16 modulation	Junjie He	Increasing the thermal comfort in passenger rail: application of personalized environmental control systems	Daniel Schmeling	The effect of a reduced reverberation time on students' perceived comfort an 9:16 performance in higher education classrooms: a between-groups experiment		Innovative Visual Strategies for Indoor Environmental Quality Analysis 9:18	Jorge Fernandes	Development of a breath-taking hood for airborne diseases 9:16	Chih-Chieh Chen
Initial VOC Emissions from Consumer Products Determined in Micro-Scale Test Chambers 9:28 Results of a Round Robin Test	S: Birte Poelke	9:28 Thermal comfort in a cruise ship passenger cabin	Henna Maula	Promoting Cognitive Health in Older Adults through Light and Temperature 9:28 Modulation in Indoor Environments	Nina Sharp	Forth Environmental Resilience Array (Forth-ERA): co-developing an indoor and 9:28 outdoor air quality monitoring network in Scotland	Heather Price	Assessing Performance of Portable Air Cleaner on Infection Risk and Draught Risk in Care	Yik Chirt Teoh
Factors that govern indoor SVOC uptake by particles – experimental study using aerosol	Aneta Wierzbicka	Enhancing Thermal Comfort in Shared Building Spaces: Analysis of Subzone Division	Jingkai Wang	Indicators and methods for assessing students' acoustical preferences and	Amneh Hamida	Operational PM2.5 capture efficiency of filters in balanced ventilation systems, a field	Piet Jacobs	2.28 Prome Exploring the emission from reused carpet tiles and the impact on indoor air quality	Rikke Bramming Jørgensen
9:40 mass spectrometry Quantifying Particle Emissions from Electric Toothbrush Use: Insights from Real-Life		9:40 Objective and Subjective Assessment of Indoor Environmental Quality in German Nursing		9:40 needs of their study places Green Views, Sharp Minds: The Power of Nature in Enhancing CSUN Students'		9:40 study	FIEL PHECODS	9:40 Health Risk Assessment from Indoor PM2.5-bound Metals Exposure: Evaluating	
9:52 Brushing Experiments	Yiqun Li	9:52 Homes Using the HTxCubes: A Multisite Field Study	Mahmoud ElMokadem	9:52 Cognitive Performance	Hessam Ghamari	9.52 10.94		9.52 Carcinogenic and Non-carcinogenic Risks for Newborns and Their Mothers	Joao Paulo Teixeira
10:16		10:16		10:16		10:16		10:16	
Bedroom ventilation and air quality during sleep: Insights from a pilot field study in 10:28 Singapore	Xiaojun Fan	10:28 What is the impact of indoor laundry drying on thermal comfort?	Frederic Thevenet	An Interpretable Machine Learning Approach to Analyzing Soundscape Qualit 10:28 in Open Spaces: A Multisensory Perspective	Mingi Lin	Performance-Based Approach Simulation to Compare IAQ and Energy Performance of 10:28 Ventilation Systems Inside Individual Houses	Ali nour eddine	Persistence of Smoke Chemicals from Residential Building Structural Materials in a Test 10:28 House	Dustin Poppendieck
Partitioning of reactive oxygen species from oxidized indoor surface films	Glenn Morrison	Investigating the Indoor Environmental Performance of Various Floor Levels in High-rise Timber	Timothy Adekunle	Exploring the Impact of Complex Indoor Thermal and Lighting Conditions on 10:40 Occupant Comfort and Physiological Responses	Dongwoo (Jason) Yeom	Enhancing Indoor Air Quality: Updated Collection of Dwelling Models for Improved 10:40 Health and Energy Efficiency in the U.S. Housing Sector	Nathan Lima	Carbon monoxide: a useful parameter for assessing indoor air quality?	Tunga Salthammer
Commercian of infrastrum Rich to a Large and Commit Classes	James Bennett, Ph.D	Indoor Environmental Comfort in an Antarctic Station: Initial versus Final Phases	Huice Mao	Exploring the link between window view characteristics and occupant's	Natalia Giraldo Vasquez	Negative Air Ions Dynamics in Green Walls: Assessing Plant and Environmental	Luowen Lvu	Predicting Dermal Exposure to Semivolatile Organic Compounds in Consumer Products	Zidong Song
40.00		10:52 Comparison of PMV model and thermophysiological comfort model NOODEL with subjective		10:52 satisfaction: results from a survey in home offices. Augmentation of Comfort Post-Occupancy Evaluation Data for Enhancing		10:52 Contributions Development of a new adsorbent based on divinyl benzene for the measurements of		10:52 under Direct Contact Scenarios Influence of Indoor temperature and humidity on quanta emission rates during speaking	
11:04 Collocation Testing of Consumer-Grade Electronic Radon Sensors in Canadian Homes	Hanyuan Li	11:04 data at dynamic boundary conditions	Nicole Koczorek	11:04 Machine Learning Performance	Mohammad Salehi	11:04 airborne SVDCs with the SE-GC/MS method	Miyuki Noguchi	11:04 and coughing	Vitor Lavor
Quantifying Person-to-Person Exhaled Air Exchange in Indoor Environments using Low- 11:18 Cost CO2 and Particle Sensor in a Climate Chamber Study	Dennis Derwein	Extension and recalibration of the thermophysiological comfort model NOODEL regarding the 11:18 individual parameters gender, age and BMI	Kai Rewitz	11:16 Energy Efficiency Through a Thermally Adaptive Light Shelf System	Afnan Barri	CFD Study on Optimizing Personalized Exhaust Systems for Airborne Particle Removal in 11:18 Hospital Rooms	ⁿ Shahrzad Marashian	$_{\rm 11:16}$ $$ Indoor air filtration impact on the microbiome – Vision of a healthy indoor future	Bastian Bossmann
Research on high-efficiency purification technology of three-effect nanofibers 11:28	Jing Xu	Multi-directional Simulated Natural Wind (MSNW): a novel approach to creating indoor dynamic wind environment for biophilic design	Zouyu Xie	Illuminating Minds: Investigating the Influence of Spatial Lighting Patterns and Color Temperature on Cognitive Performance in Older Adults Using Immersive 11:28 Virtual Environments	Nasrin Golshany	Investigation of Infection Risk Among Elevator Passengers with Varying Heights and 11.28 Positions	Sumei Liu	A Method for Accelerating Experimental Measurements of Airborne Bacteria 11:28	Kangqi Guo
Understanding the Relationship Between Indoor Enthalpy and Energy Use in Hospital 11:40 Operating Rooms: A Year-Long Study	Yubin Zhang	A Skin Temperature-Based Conceptual Framework for Heat Load Estimation in Migrant Therma 11:40 Comfort	Yu Dong	Improving Indoor Air Quality and Awareness of Window Operation Strategies 11:40 Primary School Classrooms Using Light-Based Signaling Systems	in Pedro de la Barra	PM1 in an Urban Primary School: Concentrations, Meteorological Influences, and 11:40 Filtration During Spring Semester	Çağrı Şahin	11:40 Indoor radon concentrations in European school buildings	Heidi Salonen
The impact of air recirculation on chemical, physical, and biological exposure in industria		Development of Human Physiological Model for predicting occupant's local skin temperature in	Nonunamia Lim	Evaluating the role of glazing area, orientation, and latitude on circadian	Siobhan Rockcastle				
11:52 settings: a literature review for the Recirculate IT project	Moazami	11:52 contact with a heated and ventilated seat	Nyoungilli Lilli	11:52 health potential in a residential space 12:04	JODE IN TOCKLORIA	11:52 12:04		1152 1204	
12:16		12:16 12:28		12:16		12:16 12:28		1216	
12:38		12:40		1728 1240		1238		12:40	
12:52 13:04		12:52 13:04		12:52 13:04	Climate Change	12:52 13:94		1252 1304	
Refining Particulate Matter Classification: Addressing Health Risks of Smaller Fractions	Lisa Corneillie	Thermal Comfort Beyond Expectations: Insights from Home and Office Environments in Two 13:16 Climatic Regions	Kuniaki Mihara	The impact of global warming on high-performance buildings in two European 13:16 capitals: Analysing an optimistic scenario	n Luka Pajek	Predicting Indoor Concentration in the Use of temporary Isolation Room in Healthcare 13:16 Facilities	Shinhye Lee	13:16 Experimental characterization of SVOC sorption on several indoor surfaces	Benoit Schmitt
Indoor Air Quality Assessment using different ventilation strategies under typical 13:28 pollutants emission scenarios in French Dwellings	Jeremy Depoorter	Experimental Study on a Cooling Method for a Temporary Negative Pressure Isolation (TNPI) 13:28 Room using the Portable HEPA Filter Units (PHUs) in a Full-scale Simulated Chamber	Se Jin Lee	18:28 Performance of An Adaptive Cooling Coil for Load Diversity and Resilience	Kwok Wai Tham	Calibration of Optical Particle Counter Network for Air Quality Assessment in Passenger 1328 Trains	Darpan Das	The Impact of Occupant Behavior and Spatial Factors on Indoor Air Quality in Small 13:28 Residential Units in Bangkok: A Post-Occupancy Study	Thanyatorn Khumpairoj
Evaluation of performance changes associated with medium-efficiency filters after long-	Naohide Shinohara	The influence of thermal disposition on the thermal sensation of university students in mixed-	Ricardo Forgiarini Rupp	Effects of passive solutions to reducing overheating in senior housing in the	Froukie van Diiken	Experimental Comparison of VOC Emissions Between New and Reused Construction	Fatimata Syll	Delivering Radon Testing to Smokers via Telephone Quitlines	Gary Schwartz
13:40 termuse		13:40 mode classrooms located in a subtropical climate during the summer The effect of low and high ventilation in combination with high and low temperature on		13:40 Netherlands		13:40 Materials, Tested Individually and in Combination		23.70	
13:52 An Analysis of the Impact of Geology on Indoor Air Radon Concentration	Uttam Saha	13:52 physiological function and cognitive performance.	Cynthia Ly	13:52 Insights from a comparison of domestic energy asset rating systems in Europe		13.52 Understanding Potential Radon Variability in Irish MHRV Homes; Case-Control Analysis	Mohsen Pourkiaei	13.52 Determination of uptake rates of WOCs in the indoor air on passive sampling systems	Luise Klein
Assessment of the Energy-health-comfort performance of buildings before and after deep 14:04 energy retrofit by a simplified and low-cost method (QSE method)	p Maria José Rueda López	Hygrothermal Performance of CLT External Walls Enhanced with Wood-Fibre-Based ETICS: 14:04 Preliminary Field Measurement Insights	Villu Kukk	Top-Down Analysis Framework for Common Characteristics of Building Energy 14:04 Based on Soft Clustering and Interpretable Machine Learning	Yuren Yang	Reducing the Transmission Risk of Influenza by Maximizing Airborne Viral Decay	Allen Haddrell	Oral bioaccessibility of semivolatile organic compounds following dust ingestion: model 14:04 review, input data inventory, and identification of key parameters	Aya Mansouri
On Associations between Volatile Organic Compounds and Dry Air Sensation in Indoor 14:18 Environments	Yan Deng	Paint Impacts on Mould Risk for Gypsum Interior Sheathing: Laboratory Testing in a Controlled 14:16 Climate Chamber	Helen Stopps	14:16 Flexibility regulation strategy for campuses of higher education institutions	Zhenying Zhang	Challenges and Advancements in Environmental Monitoring at the Controlled Air 14:36 Ventilation Environment (CAVE) Laboratory	Oliver Wild	1.6-16. Searching for the optimal CADR filter thickness of indoor air purifiers	Chih-Chieh Chen
Al-Driven Behavioral Monitoring for Rapid Risk Assessment of Respiratory Infections:	Hua Qian	A regenerative core-shell LTA@LDH adsorbent for indoor dehumidification and its improved	Weiman Li	Land Surface Temperature and Outdoor Air Quality Impacts of Urbanization: A	Ravi Kumar Pandey	Tackling the indoor exposure to H2S emissions from Sargassum seaweed stranding by	Marie Verriele	Removal of CO2 in indoor air with alkaline solution and recovery of CO2 with	Akihiro Yamasaki
14:28 Development and Validation of a Predictive Model Impact of climate change on semi-volatile organic compounds concentrations in the Park		14.28 adsorption performance Occupants' physiological responses to a dynamic thermal environment with temperature ramp		14:28 Use Case in Limassol, Cyprus A Review of Existing Building Guidelines: How Well They Address Health and		1428 an operational assessment of dwelling ventilation strategy Developing a face-to-face manikin setup to mimic short conversations and understand		1428 electrodialysis	
14:40 Area's dwellings	Aya Mansouri	14:40 an experimental case study.	Camilla Massucci	14:40 Resilience in the Built Environment	Mina Moayyedi	14:40 airborne transmission in Indoor settings	Arghyanir Giri	14:40	
15:04		14:52 15:04		14:52 15:04		1452 1534		1452 15:04	
Multi-Component Transport Characteristics under Oxygen Supply and Carbon Removal 15:16 Strategies in Oxygen-Enriched Buildings	Heng Zhou	15:16 Human Volatile organic compounds emission characteristics at different metabolic levels	Meinan Qu	Enhancing Energy Resilience in Healthcare Infrastructure : A study to Evaluate 15:16 Critical energy Demand	Manoj Kumar V	15-16 Exploring how Far-UVC Air Cleaning Devices affect Indoor Air Chemistry	Toby J. Carter	$_{\rm 15^{\circ}16}$. Lessons learnt from real-time monitoring and analysis of the IAQ in CUT lecture rooms	Michalis Michaelides
Impact of different ventilation routes and ventilation rate on air pollutants dilution 15:28 performance in residential kitchens in Talwan	M.C. Jeffrey Lee	Thermal and visual perception of autistic people: a living lab study on environmental 15:28 adaptation	Luca Zaniboni	Multidimensional Evaluation of Tenants' Wellbeing After a Sustainable 15:28 Retrofit: A Case Study of Low-Income Chinese Older Adults in the U.S.	Andrea Green	Developing a User-Tracking Robot with a Nanofiber Air Cleaner for Personal 1528 Environmental Control	Chengzhong Deng	Locating Air Contaminant Source using a Sensing Robot with Pre-calculated Distribution 15:28 Database	Can Xiao
Investigation of Infection Risk Among Elevator Passengers with Varying Heights and	Sumei Liu	Real-Time Touring Path Recommendation System Based on Outdoor Thermal Comfort for	Wei Liu	Overheating of buildings in future climate: A comparison of two climate zones	Mark Murphy	Interaction between Incense Particles and Metal Organic Framework-Nanofiber Filters		Enhancing Indoor Air Quality Sensor Accuracy: An Optimized Smoothing Algorithm for	Maxence Mendez
15:40 Positions Microplastic Distribution in Indoor Dust: A Case Study of an Engineering College in Rajko	4	15:40 Complex Urban Settings Transient thermophysiological simulation and airflow analysis in non-uniform thermal	Yuting Huang	15:40 in Sweden Building adaptation to climate change: performance-based assessment of	Weniuan Wei	15:40 Evaluation of efficiency removal of PMs and bioaerosols by prototype of electrostatic	Amelia Staszowska	15:40 Reliable HVAC Control 15:40 Increasing the passenger health: in-seat ventilation system for reduced particle spreading	- Devision Coherenties
15:52 India	Nisang menta	15:52 environment for air-carrying energy system	roung roung	15:52 indoor air resilience (PAIR) Examine and classify residential buildings with integrated renewable energy	wenjuan wei	1552 air deaner		2002	
Real-time measurement of reactive oxygen species emitted from indoor sources 16:04	Jonas Enarsson	The benefits of Personalised Environmental Control Systems (PECS) as part of the mixed-mode building operations in India 16:04	Rajan Rawal	systems based on their energy resilience performance under typical and 16:04 extreme climate conditions in cold climates	Hassam ur Rehman	From Surfaces to Air: How Germicidal UV (222 & 254 nm) Lamps Alter Volatile Organic Compound Levels in Indoor Environments	Sara Bjerre Sørensen	Emissions of Per- And Polyfluoroalikyl Substances (PFAS) from Rain Jackets and Resulting Exposure Indoors	Clara Eichler
18:18 Emissions of Chemicals of Emerging Concern in Water-based Paints	Yujie Fan	16:16 Assessing Cool Room Potential for Improving Heat Resilience in Disadvantaged Housing	Tianzhen Hong	16:16	Dampness and Moisture in buildings	Contribution of human thermal plume to the microenvironmental distribution of 18:18 indoor particles	Alexandru Cemei	Towards developing an indoor emissions inventory for the UK: challenges and future 18:18 directions	Christian Pfrang
Optimizing Viral Aerosol Removal with Chitosan-Based Silver-Infused TiO2 Filters and 18:28 Ionization	Wonder Dlamini	Overheating in Dutch homes Field study in the search for suitable temperature limits	Froukje van Dijken	Comparative analysis of Icelandic exterior walls	Dorotea H Sigurdardottir	Evaluating Particle Clearance, Distribution Homogeneity, and Energy Efficiency under 18:28 Varying Ventilation Rates in a Sterile Preparation Room	Anneloes de Lange	Relationship of building material emissions and odour perception: perceived intensity, 1828 hedonic tone and reasonableness	Nicole Schulz
Chamber studies on the estimation of emission rates from commercial cleaning products		Analysis of air distribution and optimization of air-supply parameters under sleeping mode of	Yaxian Jiang	Remediation efficacy of flood affected dwellings in Australia	Heike Dr. Neumeister-Kemp		Marie-Astrid Dutoit	Detection of window opening events from CO2 and temperature time series analyses in	Virginie Desvignes
18:40 during mopping	Chatoutsidou	16:40 the residential room The Impact of Diffusion on Temperature Stratification in Buoyancy-Driven Displacement Natura	II varan	16:40 Healthy building database: Microbial growth in building structures in indoor a		Application of nanofiber air filters for controlling person-to-person particle transport in		18:40 dwellings Enhancing Thermal Comfort and Indoor Air Quality in Naturally Ventilated Offices with	Ihah Al-Rikahi
16:52		18:52 Ventilation Energy-Saving Wood Blinds Using Phase Change Materials: Development and Performance		16:52 problem and reference buildings	vuoitto Lappalainen	1852 an aircraft cabin mockup Fate Of Airborne Ultrafine Particles, Microfibers And Microorganisms in The Human		1852 Intermittent Personalized Ventilation Influence of Direct Current Characteristics on Collection Efficiency in Two-Stage	
17:04		energy-saving wood aims using mase change waterass beveropinent and renormance 17:04 Evaluation	Ko Yu-Jeong	17:04		17:04 Respiratory Tract And Transport To The Offactory Region in The Indoor Environment	Mihalis Lazaridis	17:04 Electrostatic Predpitators	Thilhara Tennakoon

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					Heating, ventilation, air conditioning &		Public health, occupational &		Workplaces, schools and healthy
V-101 Tuesday 10th June, 2025 8:30:00 Session Chair Introduction	IAQ Presenter	M-101 Tuesday 10th June, 2025 8:30:00 Session Chair Introduction	Thermal Comfort Presenter	M-201 Tuesday 10th June, 2025 8:30 Session Chair Introduction	Presenter	V-201 Tuesday 10th June, 2025 8:30 Session Chair Introduction	environmental health Presenter	8:30 Session Chair Introduction	environments Presenter
8:40:00 INCHEM-Py, applications and developments	David Shaw	Dynamic Model for Enhancing Indoor Environmental Quality: A Proactive Approach to Health 8:40:00 and Comfort	Hiba Ajib	Type Of Ventilation Hwac Systems In Large School District Study And Associated Ventilation Rates Per 8:40 Person, Prior To Extensive Hwac Renovation/Upgrades	Richard Shaughnessy	Health benefits of proposed building code changes to address radon and extreme 8:40 heat, Canada	Janet Gaskin	Sustainable Workplaces Catalysts for productivity and profitability in Indian 8:40 Business	Ayesha Syeda
8:52:00 Pressure-Based Attribution of Naturally-Driven Infiltration in Residential Buildings	Daniel Rodriguez	8:52:00 Unraveling the Effects of Urban Heat on Summer Outdoor Exercise Capacity	Boze Huang	Recirculation of return air in Norwegian buildings: Control strategies, air quality, and 852 operational challenges	Maria Justo Alonso	Local tracer emission mimicking air-borne disease spreading in an office space 8:52 with mixing ventilation	Mikael Björling	Quantifying the impact of workplace environment features on physical activity 8:52 for hybrid workers: a feasibility wearable sensors study	Charu Srivastava
Clothing to reduce transdermal uptake of semi-volatile plasticizers from indoor 9:04:00 environments	Glenn Morrison	Dual potential of Garden Rooftop Farms for heat island mitigation and spatial productivity	Xin Dong	Classification of Consumption Patterns for HVAC Systems in Terminal Buildings Based on 9:04 Feature Extraction and Cluster Analysis	chao chen	Low-Cost Wearable Sensors: Assessing Worker Exposure to Particulate Matter 9:04 Across Various Construction Site Tasks	Maria Justo Alonso	9:04 Perceived and Measured Indoor Environment on a Cruise Ship	Elli Anttila
9:18:00 Net4CleanAir - Network for Indoor Air Cleaning	Sofia Sousa	Overheating Risk in Dwellings: A global review on Factors, Assessing Methods, Indicators and 9:18:00 Adaptation Strategies	Shivani Dolas	$_{9:18}$ Cooling strategies to reduce classroom overheating in future climates	Karin Maria Soares Chvatal	Exploring dynamic environmental conditions effect on sleep quality: a longitudina 9:16 study comparing day and nighttime exposure	Veronica Martins Gnecco	Thermal preferences of autistic people and coworkers in the workplace: 9:18 Preliminary insights from a pilot study	Maria Lackovicova
Influence of Relative Humidity on the Emissions of Volatile Organic Compounds from Bio- 9:28:00 based Building Materials	Kasper Kristensen	Exploring thermal satisfaction variability by occupant exposure in tropical semi-outdoor 9:28:00 workspaces	Toby Cheung	A Fourier Neural Operator-Based Method for Rapid Prediction of 3D Indoor Airflow 9:28 Dynamics	Xiaoxiao Ding	$_{\rm 9.28}$ Complex models and simple results in airborne disease transmission	James Bennett	First real-world exemplar of implementing a Blueprint Indoor Air Quality 9:28 Standards	Lidia Morawska
$_{\rm 9:40:00}$ Effects of blending hydrogen with natural gas on gas stove and oven NOx emissions	Daniel Rush	Modelling IEQ Factors in Home Offices: Predicting Satisfaction, Work Performance, and Well- 9:40:00 Being Using Ordinal Logistic Regression	Sanyogita Manu	Indoor temperature framework with IoT and AI for smart low-carbon control of urban 9:40 district heating system in China	Junjie Liu	Ethical Considerations of Inclusive Learning Environments: Addressing how 9:40 Environmental Factors have an impact to Students with Sensory Needs	Theodora Mavridou	Comparison of Office Worker Perceptions of Two Innovation Centers with 9:40 Different Concepts	Haruka Matsubara
9:52:00 Towards understanding air pollution in homes: the INGENIOUS project	Nicola Carslaw	9:52:00		9:52 Sizing of Heat Pumps for Space Heating: Current and Future Projections in Irish Residences	Adam O Donovan	Understanding the role of ventilation in airborne transmission risk: A Monte Carlo 9:52 approach.	Alexander Edwards	IEQ, occupant well-being and energy efficiency in school buildings under 9:52 climate change: A literature review	Hsing-Yu Ou
10:04:00 10:16:00		10:04:00		10:04 10:16		10:04 10:16		10:04 10:16	
10:28:00 Fine Particulate Matter Exposures in Kitchens	Elise Huglo	The Impact of Material Thickness on the Thermal Performance of Wattle and Daub Residences 10:28:00 in Sri Lankan vernacular architecture	Oshanie Kumudika Rammuthupura	10.28 Calibration of Single-Sided Bottom-Hung Window Ventilation Models	Jun Jiang	The development of a global Indoor Environmental Quality guideline database: 10:28 Observations and recommendations	Xiaojun Fan	Implications for indoor environmental quality and health of a district-wide 10:28 school renovation and upgrading bond program	Richard Shaughnessy
Catalytic converter filters for airborne pathogen inactivation (viruses and bacteria)	Miguel A. Bañares	Age-related differences in heat acclimatization influenced by muscle mass	Aya Yokoe	Application of Dynamic Carbon Intensity for TABS operation in Denmark and Japan $10\!\times\!0$	Hiromu HIRUMA	Exploring the Nexus Between Housing Inequalities and Health: A Systematic 10:40 Review and Bibliometric Network Analysis	Anna Conzatti	Research on the Development of Environmental Evaluation Methods for 10:40 Healthcare Facilities Aimed at Achieving Well-being	Yuta Shiozaki
10:52:00 A Blueprint for Using Far-UVC to Mitigate Airborne Pathogens in the Built Environment	James Montavon	$_{\rm 10:52:00}$ Changes in physiological responses during sleep under temperature variations	Jiyoung Kwak	$_{10.52}$. Air flow patterns and draught risk in a cruise ship cabin	Arttu Sivula	The first-trimester internal dose of novel and legacy flame-retardant mixture and 10:52 doctor-diagnosed asthma at age six	Hyunok Choi	Indoor climate is not indoor climate - How employees perceive indoor climate 10:52 differently at home and at the office	Marianne Skaar
	Erik Uhde	Numerical analysis of individual thermal comfort effectiveness through an occupant-centric 11:04:00 optimization control strategy for package air conditioning system	Yunqing Fan	Integrating phase change materials into buildings to improve indoor thermal environment 11:04 and energy efficiency: a short review	t Ou Han	Indoor Exposure Measurements in Vulnerable Communities using Dust and 11:04 Silicone Wristbands as Passive Samplers	Anna Neville	An Analysis of Colorado Workplace Indoor Air Quality and Ventilation: Data 11:04 and Beyond	Benjamin Swanson
Energy retrofits, a just transition to better indoor air quality: findings from the Irish HAVEN 11:18:00 study		$_{11:16:00}$ Improving sleep quality by applying thermoregulation mat to healthy adults in cooling season	Jeong Won Kim	11:18 Effect of Teachers' Awareness on CO ₂ Levels and Ventilation Rates in Classrooms	Natalie Bain-Reguis	Promoting Building Occupant Safety and Indoor Air Quality (IAQ) During and 11:16 Following Emergencies	Danny Malashock	Indoor Environment Cleaning Questionnaire and Hygiene Measurements for 11:16 Cruise Ships	Leila Kakko
Phase partitioning and source apportionment of organophosphate esters (OPEs) in vehicle 11:28:00 Cabins under the temperature influence	Meinan Qu	11-28-00 Changes in physiological responses during sleep under temperature variations	Jiyoung Kwak	Underfloor Cooling in Residential Buildings: Addressing Condensation Risks and 1128 Temperature Control	Kätriin Onemar	11:28 The Finnish Indoor Air and Health Programme 2018–2028	Anniina Salmela	Scratching the surface: a water-only cleaning intervention in Finnish	Martin Täubel
Frankrick Balatianskips between Missakist and Chamber Control to Bankratist	David Jarma	11-40-00		1140		Building a model to predict the contribution to epidemic by each transmission 11:40 route and countermeasure effectiveness based on infection risks	Atsushi Mizukoshi	Long-Term Indoor Air Quality Data in Naturally Ventilated Classrooms and 11:40 Offices Undergoing Energy Retrofits	Adam Collison
11:52:00 12:04:00		11:52:00		11:52		11:52		11:52	
12:16:00		12:04:00 12:16:00		12:04 12:16		12:04 12:16		12:04 12:16	
12:28:00 12:40:00		12:28:00 12:40:00		1228 1240		12:28 12:40		12:28	
12:52:00		12:52:00		1252		12:52		12:52	
13:04:00		12:04:00		13:04		13:04		13:04	- Managina Managina
${}_{13:16:00} \ {}^{\hbox{Evaluating the use of CO2 as a quantitative indicator of indoor air quality} \\$	Sonali Deshmukh	Dynamic Model for Enhancing Indoor Environmental Quality: A Proactive Approach to Health 13:16:00 and Comfort Introducing a standard effective temperature scale adapted for French residential buildings	Hasan Sayegh	Data Driven Estimates of Home Thermal Control Parameters 13:18 Investigation on Impacts of Geometry Features of Supply Vents on Optimization of Multi-	Ansel Early	The LungCHEM-Py Project 13:16 Inhalation Exposures and Work-Related Factors in Co-Residential Dry-Cleaning	Toby Carter	Changing office layout implementing vertical acoustic panels: evaluation of th 13:18 impact on workers' perception and behaviour Assessing indoor environmental quality in schools using IoT devices: insights	Gnecco
13:28:00 Application of PM2.5 low-cost sensors for indoor air quality compliance monitoring	Lidia Morawska	13:28:00 based on field study	Anais Machard	1328 jet Stratum Ventilation	Xuchao Wang	13:28 Facilities Following PERC Phase-Out	Inkyu Han	13:28 from renovation projects	Samy Clinchard
Excellent Antibacterial Performance of ROS-mediated Cu-doped ZIF-8 and the Mechanism 13:40:00 of ROS Generation	Jingkun Zhang	Optimization of Thermal and Visual Comfort in a Safe Indoor Ambient Temperature of a 13:40:00 Composite Climate	Arpita Srivastava	13.40 atmospheric wind tunner	Christina Higgins	How can healthcare environments be health promoters? Definition of design and 13:40 management best practices of healthy Indoor Air Quality	Marco Gola	Integrating 24-hour personal monitoring of environmental stressors: a 13:40 literature review	Hailin Zheng
13:52:00 monitoring	Jiayao Chen	$_{\rm 13:52:00}$ Research on metabolic rate estimation by image analysis using machine learning	Aoi Tanaka	Personalised Environmental Control Systems (PECS): a paradigm shift for the indoor 1352 climate control	Marco Perino	$_{\rm 13:52}$ A new coupled hygiene criterion for heterogeneous surface touch networks	Shenglan Xiao	CLEVER approach for Pareto-Optimal Modular Ceiling Refurbishments in 13:52 Classrooms for better IEQ	Tobias Maria Burgholz
Application of indoor air quality pre-assessment model based on two-parameter C-history 14:04:00 method.	Haipeng Chen	Energy-Saving Wood Blinds Using Phase Change Materials: Development and Performance 14:04:00 Evaluation	Ko Yu-Jeong	Bioinspired Design of Heat Exchanger for Maisotsenko Indirect Evaporative Cooling Cycle	Jan Fišer	$_{\rm 54:04}$ Assessing glycol vapors as a tool for air disinfection in occupied spaces	Aman Patel	Study on human thermal comfort during moderate and high intensity physical 14:04 activity in large sports venues	Shi Liu
A pilot study to explore the use of a personalized air cleaner as a localized exhaust for 14:16:00 short-range respiratory aerosols in classroom settings	Er Ding	Overheating Risk in Dwellings: A global review on Factors, Assessing Methods, Indicators and 14:16:00 Adaptation Strategies	Shivani Dolas	Whole Life Carbon Comparison of Air Source Heat Pump with Natural gas Boiler	Sahil Ali Khan	The Homes, Heat and Healthy Kids Study: The role of underheated homes in 14:16 preschool respiratory infections.	Olivia Swann	Using Wearable Devices to Evaluate the Impact of Indoor Environmental 14:16 Quality on Teachers' Performance: A Field Study	Giulia Lamberti
$_{\rm 14:28:00}$ Challenges and opportunities in monitoring air purifiers in classrooms	Sverre Holøs	14:28:00		Sustainable and resilient cooling for educational buildings in a changing environment. 1428 Case studies from Ireland	Theofanis Psomas	Impact of Return Air Ratios and Filtration on Airborne Infection Risk in Healthcare 14:28 Settings	Li Liu	14:28	
14:40:00		14.40:00		Analysis of the Stack Effect in High-Rise Buildings Considering Time-Varying External	Shogo Ito	Challenges in Setting Indoor Environmental Health & Wellness Metrics	Charlene Bayer	14:40	
14:52:00		14:52:00		14:0 Conditions 14:52		14:52		1430	
15:04:00 Evaluating the Effectiveness of Reducing PM2.5 Levels by Green Curtain System at Schools		15:04:00 Exploring thermal satisfaction variability by occupant exposure in tropical semi-outdoor	Tohy Cheung	15:04 Energy-Efficient Chiller Sequencing for Hospitals: Prioritizing Critical Air conditioning	Manoi Kumar V	15:04 Health risk assessment of exposure to semi-volatile organic compounds-	Kenirhi Azuma	15:04 A study on the correlation between work patterns of workers in ABW-oriented	Takeeto Suzuki
Acoustic-Enhanced Aerosol Filtration: An Energy-Saving Approach for Improved Indoor Air		15:16:00 workspaces Heritage and Comfort: Indoor Environmental Quality in Belgium's Heritage Townhouses	Luca Maton	15:18 during Power Outage Restoration Classification of HVAC Electricity Consumption in Airport Terminal Buildings Based on	Nana Su	15:18 contaminated floor dust in housing in Japan Effects of indoor air quality in schools on respiratory health among children: a	Jouni J.K. Jaakkola	15:18 offices and Transactive Memory Systems, employee wellness Integrating the WHO ICF Model into Age-Friendly Housing Design Strategies: A	
15:28:00 Quality Characterization of ultrafine particles number concentration and size distribution in the		15:28:00 The Impact of Material Thickness on the Thermal Performance of Wattle and Daub Residences		15:28 Interpretable Feature Extraction and Feature Clustering		15:28 systematic review		15:28 Scoping Review of Spatial Interventions Assessment of Air Quality in Primary Schools in Denmark using Multimodal	
15:40:00 school environment	Stavroula Katsikari	15:40:00 in Sri Lankan vernacular architecture	Rammuthupura	0 Optimization of air conditioning operating parameters using machine learning	Yuya Baba	15:40 Epidemiological study on School environment and health (InChildHealth)	Aino Rantala	15:40 Sensor Nodes	Louise Frederickson
15:52:00 How Does Personal Hyziene Influence Indoor Air Quality?	Niling Wang	15:52:00 Age-related differences in heat acclimatization influenced by muscle mass	Ava Yokoe	15:52 Energy efficiency in selected rooms in the multi-family residential building	Martyna Bocian	15:52 In vitro bioaccessibility method for SVOCs in indoor dust Exposure to airborne food allergens in elementary schools in Finland, Portugal and	Marie Dufresne	15:52 Meeting	
16:04:00 Indoor Air Quality of Offices: Beyond CO2 to Chemical Pollutants	Sarah J.D. Nauwelaerts	$_{18:04:00}$ A review of kitchen ventilation strategies for residential buildings located in cold climates	Jaya Mukhopadhyay	3D Printed Bioinspired Heat Exchangers for Maisotsenko Cycle	Patrik Rapta	16:04 United Kingdom: environmental assessment and health effects	Inês Paciência	18:04 Meeting	
Indoor concentrations and exposure levels of carbon monoxide, sulfur dioxide, nitrogen dioxide, and ozone in residences, schools, and offices in China from 2000 to 2021: A 16:16:10 systematic review	Jin Sun	16:16:00		Simulating dynamic warm-up process in a room heated by the split-type air conditioner 16:16	Zi Cheng	Preliminary Assessment of Microbial Contamination in Urban and Rural Homes of Sc.18 Elementary School Children	Renata Cervantes	Meeting 16:16	
Indoor Air Quality Prediction at Building Stock Scale Using MATHIS-QAI	Thierno Diallo	16:28:00		18.28		Occupational inhalation exposure to welding fumes: distance, level, composition 18:28 and health effects	Yiran Lu	16:28 Meeting	
16:40:00 Indoor Air Quality Classification Based on PM2.5 Measurements from Numerous Buildings	Martin Thalfeldt	16:40:00		16:40		Respiratory and Cardiovascular Effects of Ozone Reaction Products (ORPs): 16:40 Emerging Epidemiologic Evidence	Jim Zhang	16:40 Meeting	
16:52:00 Identification of PFAS sources in indoor environments	Aurélie Della-Puppa	16:52:00		1652		Removal of Microplastics from Wastewater using a Non-Invasive Acoustic Filtratio 18:52 System	ⁿ Yin Hoi Chan	16:52 Meeting	
17:04:00 Linking material emissions and indoor air quality: experimental evaluation and simulation	Nicole Schulz	1704:00		17.04		17:04		17:04 Meeting	
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Draft



This is not the final program

at Reykjavik University, Menntavegur 1, Reykjavik, Iceland

Wednesday 11th June, 2025

	Architecture, aesthetics, passive design, biophilia,						
	building physics, building				Occupant behavior & controls		
V-101 Wednesday 11th June, 2025	technology	M-101 Wednesday 11th June, 2025	Community/Eco-labelling	M-201 Wednesday 11th June, 2025		V-201 Wednesday 11th June, 2025	IAQ
8:30:00 Session Chair Introduction	Presenter	8:30:00 Session Chair Introduction	Presenter	8:30 Session Chair Introduction	Presenter	8:30 Session Chair Introduction	Presenter
Nordic Sustainable Construction – Results from a 3 year collaboration project by Nordic authorities and industries on reducing emissions and waste in the 8:40:00 construction industry	Bjorn Karlsson	Environmental loads and benefits of hybrid offices in the Nordics 8:40:00	Thorhildur Fjola Kristjansdottir	Evaluation of the space efficiency and functionality of residential buildings based on $_{\rm 8.40}$ possible activities	Janine Bardey	Predicting Dermal Exposure to Semivolatile Organic Compounds in Consumer Products under Direct Contact Scenarios	Zidong Song
A Initial Review of Personalized Environmental Control Strategies in Outdoor and 8:52:00 Semi-Outdoor Spaces	Kaho Higuchi	Empowering School Children to Understand and Improve Air Quality in Rural Settings 8:52:00 through Citizen Science	Shuangyu Wei	Research on cooling control behavior and indoor thermal environment in Korean 8:52 households, focusing on a comparative study over 20 years	Hyunji Lee	Quantification of semi-volatile organic compounds in nurseries during CRECH- 8:52 PEFree project	Mélanie Nicolas
Development of Floor Plan Retrofit Methods to Reduce Thermal Health Risks in Low 9:04:00 Insulated Houses in Temperate Regions of Japan	Ayaka Kani	${\small \begin{array}{c} \text{Community-Engaged Frameworks for Healthy and Sustainable On-Reserve Housing} \\ 9:04:00 \end{array}}$	Sarah Haines	Profiling the Link Between the Objective Indoor Environment and the Subjective Experience 9:04 of Occupants	Carl Grimes	9:04	All other IEQ, ergonomics & health topics
Comparative Analysis of Heat Transfer in Polyurethane with Phase Change 9:16:00 Materials: Advancing Multi-Scale Modeling for Energy Efficiency	Bokai Liu	Enhancing dynamic metabolic rate estimation using calibration models for portable 9:16:00 devices	Yuchun Zhang	Testing a smartphone-enabled real-time data approach to encourage IAQ-promoting 9:16 behaviors at home	Marta Gabriel	Assessing occupant ear comfort inside trains: Modeling of pressure variation using 9:16 subjective feedback and real-time data monitoring	Yibin Lu
Exploring climate resilience and the indoor environment in Pakistan's higher 9:28:00 educational buildings through stakeholder perspectives	Madeeha Altaf	Estimation of urban wind profiles in built-up areas from GIS and WRF with a porosity 9:28:00 model	Jue Wang	From Individual to Occupant Profiles: Aggregated Personal Comfort Models for Occupant- 9:28 Centric Building Controls	Pablo Martinez-Alcaraz	Co-creation of an airflow and COVID-19 transmission risk model for humanitarian 9:28 shelter design	Anna Conzatti
$_{9:40:00}$ Designing for wellbeing: the role of architecture in educational spaces	Beatriz Piderit-Moreno	Analysis and standardization of Energy Performance Certificates and Smart Readiness 9:40:00 Indicators across the EU: first results from the tunES project	Luca Zaniboni	Environmental Sustainability, Thermal Performance, and Occupant Behavior: A Danish Case 9:40 Study in Circular Construction	Sofie Amalie Sjøberg Buur- Mouridsen	The Four Factors of the Indoor Environment and How They Interact $9{:}40$	Carl Grimes
9:52:00		$_{9:52:00}$ Are traditional and historic buildings more efficient than their rating label says?	Oliver Kinnane	${\color{red}9:52} \textbf{Non-Intrusive Multi-Zone Occupancy Sensing via WiFi: Applications in Office Environments}$	Yeeun Kim	Health Performance Indicators (HPIs)-How do they present and measure the Impac 9:52 of Buildings on Health-A Systematic Review	Katerina Tatsiopoulou
10:04:00		10:04:00 Specification study of building envelope based on LCA and GHG emissions	Miyu Matsunobu	10:04		CFD Modeling of PM2.5 Transport and Deposition in the Upper Airways: Integrating 10:04 Biomedical Aspects through User-Defined Wall Functions	g Hashir P.K
10:16:00		10:16:00	Heating & Ventilation	10:16	Psychology, psychophysics, performance & productivity	10:16	
The Bauhaus architects and their indoor climate solutions	Atze Boerstra	Evaluating the concurrent operation of gaspers for controlling the airborne disease 10:28:00 transmission in an economy-class aircraft cabin	Yunge Hou	10:28 Session Chair Introduction	Presenter	10:28	
Effect of different heights of photovoltaic on the comprehensive performance of 10:40:00 photovoltaic-green roofs	XiaoTong Feng	Energy savings in existing ventilation systems for residential buildings with small 10:40:00 apartments	Michael Johansson	Different perceptions of health risks related to indoor air in neighboring countries Finland, 10:40 Sweden and Estonia	Kati Huttunen	10:40	
Effects of indoor greenery in the workplace: Considerations and insights from a pilo 10:52:00 study development	Lisi Freitas Camboim	Tubular Membranes for Enthalpy Exchangers	Wiebke Wiessner	Indoor Air Quality and Adolescents' Cognitive Performance: First Results of CO2 and VOC 10:52 Levels of a Longitudinal Large-Scale Field Study	Andreas Schütze	10:52	
Research on the evolution of environmental and equipment technologies in ultra 11:04:00 energy-efficient buildings from the past to the present	Naoya Sugiura	Optimized PID Control for Adaptive Heating in Buildings: A Model-Based Approach to 11:04:00 Enhance Thermal Comfort and Energy Efficiency	Makram Abdellatif	11:04 and Stress in Older Adults with Dementia	Mohammed Alrahyani	11:04	
Nature View Potential: A Tool for Quantifying Indoor Nature Dose to Study 11:16:00 Occupant Well-Being.	Andrea Green	11:16:00		Facilitating Cumulative Occupant-Centric Building Science Through Bayesian Region of 11:16 Practical Equivalence	Jian Pan	11:16	
11:28:00 Closing Ceremony		11:28:00 Closing Ceremony		11:28 Closing Ceremony		11:28 Closing Ceremony	
11:40:00 Closing Ceremony		11:40:00 Closing Ceremony		11:40 Closing Ceremony		11:40 Closing Ceremony	
11:52:00 Closing Ceremony		11:52:00 Closing Ceremony		11:52 Closing Ceremony		11:52 Closing Ceremony	
12:04:00 Closing Ceremony		12:04:00 Closing Ceremony		12:04 Closing Ceremony		12:04 Closing Ceremony	