

SCHEDULE OVERVIEW

8:30 - 10:04

V-101 IAQ
M-101 THERMAL COMFORT
V-102 LIGHTING AND NOISE
M-201 IAQ
V-201 IAQ

9:50

M-103 WORKSHOP

10:04 - 10:28 BREAK

10:28 - 11:52

V-101 IAQ
M-101 THERMAL COMFORT
V-102 LIGHTING AND NOISE
M-201 IAQ
V-201 IAQ

11:00

M-103 WORKSHOP

12:04 - 13:16 LUNCH

13:10

M-103 WORKSHOP

13:16 - 14:40

V-101 IAQ
M-101 THERMAL COMFORT
V-102 CLIMATE CHANGE
M-201 IAQ
V-201 IAQ

14:52 BREAK

15:30

M-103 WORKSHOP

15:16 - 17:04

V-101 IAQ
M-101 THERMAL COMFORT
V-102 CLIMATE CHANGE/DAMPNESS AND MOISTURE IN BUILDINGS
M-201 IAQ
V-201 IAQ

DETAILED SCHEDULE

V-101 IAQ

Technical chair: Pawel Wagocki | National chair: Björn K.
Computer manager: Kristján Ingi | Time manager: Egill Grétar Andrasón

- 8:30 Session Chair Introduction
- 8:40 Ventilation and air cleaning in the context of infection risk - results from two large Dutch research projects
Marcel G.L.C. Loomans
- 8:52 Partitioning of semi volatile organic compounds between air and textiles
Tunga Salthammer
- 9:04 Should I open a window? Analysis of air change rates during cooking in real homes in Bradford, UK
David Shaw
- 9:16 Low-cost MOX sensor to detect indoor ppb-level VOC: a promote with Schottky barrier modulation
Junjie He
- 9:28 Initial VOC Emissions from Consumer Products Determined in Micro-Scale Test Chambers: Results of a Round Robin Test
Birte Poelke
- 9:40 Factors that govern indoor SVOC uptake by particles – experimental study using aerosol mass spectrometry
Aneta Wierzbicka
- 9:52 Quantifying Particle Emissions from Electric Toothbrush Use: In sights from Real-Life Brushing Experiments
Yiqun Li

M-103 Workshops

- 9:50 Inclusion and indoor environment: definition and comparison of primary challenges
Chair: Natalia Giraldo Vasquez
Category: Workplaces, schools and healthy environments

M-101 THERMAL COMFORT

Technical chair: Tham Kwok Wai | National chair: Aldís
Computer manager: Elías Lúðvíksson | Time manager: Heiðdís

- 8:30 Session Chair Introduction
- 8:40 Frequency of moisture problems/damages in housing in Iceland and health issues
Björn Marteinsson
- 8:52 Beyond linear regression: improving thermal comfort data analysis through visualisation
Matteo Favero
- 9:04 Enhancing healthy indoor thermal environment of low-income households in a hot-humid climate through passive cooling interventions – A case of Abuja, Nigeria
Timothy Adekunle
- 9:16 Increasing the thermal comfort in passenger rail: application of personalized environmental control systems
Daniel Schmeling
- 9:28 Thermal comfort in a cruise ship passenger cabin
Henna Maula
- 9:40 Enhancing Thermal Comfort in Shared Building Spaces: Analysis of Subzone Division
Jingkai Wang
- 9:52 Objective and Subjective Assessment of Indoor Environmental Quality in German Nursing Homes Using the HTxCubes: A Multisite Field Study
Mahmoud ElMokadem

V-102 LIGHTING AND NOISE

Technical chair: Jennifer Veitch | National chair: Ásta
Computer manager: Ásta Logadóttir | Time manager: Loki

- 8:30 Session Chair Introduction
- 8:40 An exploratory field study to identify the potential impact of working in daylight-deprived spaces in hospitals
Maud van den Boomen
- 8:52 An Interpretable Machine Learning Approach to Analyzing Soundscape Quality in Open Spaces: A Multisensory Perspective
Minqi Lin
- 9:04 Cross-modal effects of enviornmental factors on perception and bodily responses
Philomena Bluysen
- 9:16 The effect of a reduced reverberation time on students' perceived comfort and performance in higher education classrooms: a between-groups experiment
Henk Brink
- 9:28 Promoting Cognitive Health in Older Adults through Light and Temperature Modulation in Indoor Environments
Nina Sharp
- 9:40 Indicators and methods for assessing students' acoustical preferences and needs of their study places
Amneh Hamida
- 9:52 Green Views, Sharp Minds: The Power of Nature in Enhancing CSUN Students' Cognitive Performance
Hessam Ghamari

M-201 IAQ

Technical chair: Marta Gabriel | National chair: Vincent Merida
Computer manager: Bjarki Már Sigmarsson | Time manager: Davíð Hafsteinsson

- 8:30 Session Chair Introduction
- 8:40 Wildland Urban Interface Smoke: Household Response Guideline Evaluation
Dustin Poppendieck
- 8:52 The PHARAO project: new bases for a cross-disciplinary standard to assess indoor air mitigation
Frederic Thevenet
- 9:04 Indoor air quality in university libraries at Lublin University of Technology – a case study
Marzenna Dudzinska
- 9:16 Innovative Visual Strategies for Indoor Environmental Quality Analysis
Jorge Fernandes
- 9:28 Forth Environmental Resilience Array (Forth-ERA): co-developing an indoor and outdoor air quality monitoring network in Scotland
Heather Price
- 9:40 Operational PM2.5 capture efficiency of filters in balanced ventilation systems, a field study
Piet Jacobs

V-201 IAQ

Technical chair: James McGrath | National chair: Jóhann A.
Computer manager: Árna Benediktsdóttir | Time manager: TBA

- 8:30 Session Chair Introduction
- 8:40 Comparison of agar plate culture and molecular biology quantification of airborne microorganisms collected on air handling units filters
Delphine Deshayes
- 8:52 Influence of heat sources on personal protection performance of biological safety cabinets
Ryota Muta

9:04	Relating Respiratory Aerosol Emission Rates, the Exhaled Carbon Dioxide Flux and the Airborne Survival of Pathogens to Assess Transmission Risk in Indoor Environments Jonathan Reid	11:16	Extension and recalibration of the thermophysiological comfort model NOODEL regarding the individual parameters gender, age and BMI Kai Rewitz
9:16	Development of a breath-taking hood for airborne diseases Chih-Chieh Chen	11:28	Multi-directional Simulated Natural Wind (MSNW): a novel approach to creating indoor dynamic wind environment for biophilic design Zouyu Xie
9:28	Assessing Performance of Portable Air Cleaner on Infection Risk and Draught Risk in Care Home Yik Chirt Teoh	11:40	A Skin Temperature-Based Conceptual Framework for Heat Load Estimation in Migrant Thermal Comfort Yu Dong
9:40	Exploring the emission from reused carpet tiles and the impact on indoor air quality Rikke Bramming Jørgensen	11:52	Development of Human Physiological Model for predicting occupant's local skin temperature in contact with a heated and ventilated seat Kyoungmin Lim
9:52	Health Risk Assessment from Indoor PM2.5-bound Metals Exposure: Evaluating Carcinogenic and Non-carcinogenic Risks for Newborns and Their Mothers Joao Paulo Teixeira		

10:04 - 10:28 BREAK

V-101 IAQ

Technical chair: Lidia Morawska | National chair: Björn K.
Computer manager: Kristján Ingi | Time manager: Egill Grétar Andrason

10:28	Bedroom ventilation and air quality during sleep: Insights from a pilot field study in Singapore Xiaojun Fan
10:40	Partitioning of reactive oxygen species from oxidized indoor surface films Glenn Morrison
10:52	Comparison of Infection Risk in a Large and Small Classroom James Bennett, Ph.D
11:04	Quantifying Person-to-Person Exhaled Air Exchange in Indoor Environments using Low-Cost CO2 and Particle Sensor in a Climate Chamber Study Dennis Derwein
11:16	Research on high-efficiency purification technology of three-effect nanofibers Jing Xu
11:28	Understanding the Relationship Between Indoor Enthalpy and Energy Use in Hospital Operating Rooms: A Year-Long Study Yubin Zhang
11:40	The impact of air recirculation on chemical, physical, and biological exposure in industrial settings: a literature review for the Recirculate IT project Maria Justo Alonso

M-103 WORKSHOP

11:00	Towards an Open Database of Thermo-Physiological Experiments Chair: Bilge Kobas Category: Psychology, psychophysics, performance & productivity
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M-101 THERMAL COMFORT

Technical chair: Xiaojun Fan | National chair: Aldís
Computer manager: Elías Lúðvíksson | Time manager: Heiðdís

10:28	What is the impact of indoor laundry drying on thermal comfort? Frederic Thevenet
10:40	Investigating the Indoor Environmental Performance of Various Floor Levels in High-rise Timber Buildings Timothy Adekunle
10:52	Indoor Environmental Comfort in an Antarctic Station: Initial versus Final Phases Huice Mao
11:04	Comparison of PMV model and thermophysiological comfort model NOODEL with subjective data at dynamic boundary conditions Nicole Koczorek

V-102 LIGHTING AND NOISE

Technical chair: Nina Sharp | National chair: Ásta
Computer manager: Ásta Logadóttir | Time manager: Loki

10:28	Quantifying the Effects of Window View Features on Occupant Satisfaction: A Multilevel Analysis of Contributing Factors Aicha Diakite-Kortlever
10:40	Exploring the Impact of Complex Indoor Thermal and Lighting Conditions on Occupant Comfort and Physiological Responses Dongwoo (Jason) Yeom
10:52	Exploring the link between window view characteristics and occupant's satisfaction: results from a survey in home offices Natalia Giraldo Vasquez
11:04	Augmentation of Comfort Post-Occupancy Evaluation Data for Enhancing Machine Learning Performance Mohammad Salehi
11:16	Energy Efficiency Through a Thermally Adaptive Light Shelf System Afnan Barri
11:28	Illuminating Minds: Investigating the Influence of Spatial Lighting Patterns and Color Temperature on Cognitive Performance in Older Adults Using Immersive Virtual Environments Nasrin Golshany
11:40	Improving Indoor Air Quality and Awareness of Window Operation Strategies in Primary School Classrooms Using Light-Based Signaling Systems Pedro de la Barra
11:52	Evaluating the role of glazing area, orientation, and latitude on circadian health potential in a residential space Siobhan Rockcastle

M-201 IAQ

Technical chair: Philomena Bluyssen | National chair: Vincent Merida
Computer manager: Bjarki Már Sigmarsson | Time manager: Davíð Hafsteinsson

10:28	Performance-Based Approach Simulation to Compare IAQ and Energy Performance of Ventilation Systems Inside Individual Houses Ali nour eddine
10:40	Negative Air Ions Dynamics in Green Walls: Assessing Plant and Environmental Contributions Luowen Lyu
10:52	Development of a new adsorbent based on divinyl benzene for the measurements of airborne SVOCs with the SE-GC/MS method Miyuki Noguchi
11:04	CFD Study on Optimizing Personalized Exhaust Systems for Airborne Particle Removal in Hospital Rooms Shahrzad Marashian
11:16	Investigation of Infection Risk Among Elevator Passengers with Varying Heights and Positions Sumei Liu
11:28	PM1 in an Urban Primary School: Concentrations, Meteorological Influences, and Filtration During Spring Semester Çağrı Şahin

3 - JUNE 9

V-201 IAQ

Technical chair: Erik Uhde | National chair: Jóhann A.
Computer manager: Árna Benediktsdóttir | Time manager: TBA

- 10:28 Persistence of Smoke Chemicals from Residential Building Structural Materials in a Test House
[Dustin Poppendieck](#)
- 10:40 Carbon monoxide: a useful parameter for assessing indoor air quality?
[Tunga Salthammer](#)
- 10:52 Predicting Dermal Exposure to Semivolatile Organic Compounds in Consumer Products under Direct Contact Scenarios
[Zidong Song](#)
- 11:04 Influence of indoor temperature and humidity on quanta emission rates during speaking and coughing
[Vitor Lavor](#)
- 11:16 Indoor air filtration impact on the microbiome – Vision of a healthy indoor future
[Bastian Bossmann](#)
- 11:28 A Method for Accelerating Experimental Measurements of Airborne Bacteria
[Kangqi Guo](#)
- 11:40 Indoor radon concentrations in European school buildings
[Heidi Salonen](#)

12:04 LUNCH

M-103 Workshops

- 13:10 Daylight Standards in Nordic Countries: Implementation Challenges of EN 17037:2018
Chair: [Ásta Logadóttir](#)
Category: Lighting, visual comfort, daylight, circadian lighting, views

V-101 IAQ

Technical chair: Glenn Morrison | National chair: Alma
Computer manager: Kristján Ingi | Time manager: Egill Grétar Andrason

- 13:16 Refining Particulate Matter Classification: Addressing Health Risks of Smaller Fractions
[Lisa Corneillie](#)
- 13:28 Indoor Air Quality Assessment using different ventilation strategies under typical pollutants emission scenarios in French Dwellings
[Jeremy Depoorter](#)
- 13:40 Evaluation of performance changes associated with medium-efficiency filters after long-term use
[Naohide Shinohara](#)
- 13:52 An Analysis of the Impact of Geology on Indoor Air Radon Concentration
[Uttam Saha](#)
- 14:04 Assessment of the Energy-health-comfort performance of buildings before and after deep energy retrofit by a simplified and low-cost method (QSE method)
[María José Rueda López](#)
- 14:16 On Associations between Volatile Organic Compounds and Dry Air Sensation in Indoor Environments
[Yan Deng](#)
- 14:28 AI-Driven Behavioral Monitoring for Rapid Risk Assessment of Respiratory Infections: Development and Validation of a Predictive Model
[Hua Qian](#)
- 14:40 Impact of climate change on semi-volatile organic compounds concentrations in the Paris Area's dwellings
[Aya Mansouri](#)

M-101 THERMAL COMFORT

Technical chair: Janet Gaskin | National chair: Björn M.
Computer manager: Elías Lúðvíksson | Time manager: Heiðdís

- 13:16 Thermal Comfort Beyond Expectations: Insights from Home and Office Environments in Two Climatic Regions
[Kuniaki Mihara](#)
- 13:28 Experimental Study on a Cooling Method for a Temporary Negative Pressure Isolation (TNPI) Room using the Portable HEPA Filter Units (PHUs) in a Full-scale Simulated Chamber
[Se Jin Lee](#)
- 13:40 The influence of thermal disposition on the thermal sensation of university students in mixed-mode classrooms located in a subtropical climate during the summer
[Ricardo Forgiarini Rupp](#)
- 13:52 The effect of low and high ventilation in combination with high and low temperature on physiological function and cognitive performance
[Cynthia Ly](#)
- 14:04 Hygrothermal Performance of CLT External Walls Enhanced with Wood-Fibre-Based ETICS: Preliminary Field Measurement Insights
[Villu Kukk](#)
- 14:16 Paint Impacts on Mould Risk for Gypsum Interior Sheathing: Laboratory Testing in a Controlled Climate Chamber
[Helen Stopps](#)
- 14:28 A regenerative core-shell LTA@LDH adsorbent for indoor dehumidification and its improved adsorption performance
[Weiman Li](#)
- 14:40 Occupants' physiological responses to a dynamic thermal environment with temperature ramp: an experimental case study
[Camilla Massucci](#)

V-102 CLIMATE CHANGE

Technical chair: Kai Rewitz | National chair: Katarzyna
Computer manager: Bergþóra | Time manager: Loki

- 13:16 The impact of global warming on high-performance buildings in two European capitals: Analysing an optimistic scenario
[Luka Pajek](#)
- 13:28 Performance of An Adaptive Cooling Coil for Load Diversity and Resilience
[Kwok Wai Tham](#)
- 13:40 Effects of passive solutions to reducing overheating in senior housing in the Netherlands
[Froukje van Dijken](#)
- 13:52 Insights from a comparison of domestic energy asset rating systems in Europe
[James Pittam](#)
- 14:04 Top-Down Analysis Framework for Common Characteristics of Building Energy Based on Soft Clustering and Interpretable Machine Learning
[Yuren Yang](#)
- 14:16 Flexibility regulation strategy for campuses of higher education institutions
[Zhenying Zhang](#)
- 14:28 Land Surface Temperature and Outdoor Air Quality Impacts of Urbanization: A Use Case in Limassol, Cyprus
[Ravi Kumar Pandey](#)
- 14:40 A Review of Existing Building Guidelines: How Well They Address Health and Resilience in the Built Environment
[Mina Moayyedi](#)

M-201 IAQ

Technical chair: David Shaw | National chair: Gustaf

Computer manager: Bjarki Már Sigmarsson | Time manager: Davíð Hafsteinsson

- 13:16 Predicting Indoor Concentration in the Use of temporary Isolation Room in Healthcare Facilities
[Shinhye Lee](#)
- 13:28 Calibration of Optical Particle Counter Network for Air Quality Assessment in Passenger Trains
[Darpan Das](#)
- 13:40 Experimental Comparison of VOC Emissions Between New and Reused Construction Materials, Tested Individually and in Combination
[Fatimata Syll](#)
- 13:52 Understanding Potential Radon Variability in Irish MHRV Homes; Case-Control Analysis
[Mohsen Pourkiaei](#)
- 14:04 Reducing the Transmission Risk of Influenza by Maximizing Airborne Viral Decay
[Allen Haddrell](#)
- 14:16 Challenges and Advancements in Environmental Monitoring at the Controlled Air Ventilation Environment (CAVE) Laboratory
[Oliver Wild](#)
- 14:28 Tackling the indoor exposure to H₂S emissions from Sargassum seaweed stranding by an operational assessment of dwelling ventilation strategy
[Marie Verriele](#)
- 14:40 Developing a face-to-face manikin setup to mimic short conversations and understand airborne transmission in indoor settings
[Arghyanir Giri](#)

V-201 IAQ

Technical chair: Nicola Carslaw | National chair: Þórunn

Computer manager: Árna Benediktsdóttir | Time manager: TBA

- 13:16 Experimental characterization of SVOC sorption on several indoor surfaces
[Benoit Schmitt](#)
- 13:28 The Impact of Occupant Behavior and Spatial Factors on Indoor Air Quality in Small Residential Units in Bangkok: A Post-Occupancy Study
[Thanyatorn Khumpairoj](#)
- 13:40 Delivering Radon Testing to Smokers via Telephone Quitlines
[Gary Schwartz](#)
- 13:52 Determination of uptake rates of VOCs in the indoor air on passive sampling systems
[Luise Klein](#)
- 14:04 Oral bioaccessibility of semivolatile organic compounds following dust ingestion: model review, input data inventory, and identification of key parameters
[Aya Mansouri](#)
- 14:16 Searching for the optimal CADR filter thickness of indoor air purifiers
[Chih-Chieh Chen](#)
- 14:28 Removal of CO₂ in indoor air with alkaline solution and recovery of CO₂ with electrodialysis
[Akihiro Yamasaki](#)

14:52 BREAK

M-103 Workshops

- 15:30 Disrupting Disease Transmission: Identifying Priority Spaces for Intervention in the Built Environment
[Chair: James Montavon](#)
Category: Indoor air quality, particles, aerosols, chemical pollutants, microbes

V-101 IAQ

Technical chair: Sanyogita Manu | National chair: Alma

Computer manager: Kristján Ingi | Time manager: Egill Grétar Andrasen

- 15:16 Multi-Component Transport Characteristics under Oxygen Supply and Carbon Removal Strategies in Oxygen-Enriched Buildings
[Heng Zhou](#)
- 15:28 Impact of different ventilation routes and ventilation rate on air pollutants dilution performance in residential kitchens in Taiwan
[M.C. Jeffrey Lee](#)
- 15:40 Investigation of Infection Risk Among Elevator Passengers with Varying Heights and Positions
[Sumei Liu](#)
- 15:52 Microplastic Distribution in Indoor Dust: A Case Study of an Engineering College in Rajkot, India
[Nisarg Mehta](#)
- 16:04 Real-time measurement of reactive oxygen species emitted from indoor sources
[Jonas Einarsson](#)
- 16:16 Emissions of Chemicals of Emerging Concern in Water-based Paints
[Ying Xu](#)
- 16:28 Optimizing Viral Aerosol Removal with Chitosan-Based Silver-Infused TiO₂ Filters and Ionization
[Wonder Dlamini](#)
- 16:40 Chamber studies on the estimation of emission rates from commercial cleaning products during mopping
[Sofia Eirini Chatoutsidou](#)
- 16:52 Collocation Testing of Consumer-Grade Electronic Radon Sensors in Canadian Homes
[Tianyuan Li](#)

M-101 THERMAL COMFORT

Technical chair: Henna Maula | National chair: Björn M.

Computer manager: Elías Lúðvíksson | Time manager: Heiðdís

- 15:16 Human Volatile organic compounds emission characteristics at different metabolic levels
[Meinan Qu](#)
- 15:28 Thermal and visual perception of autistic people: a living lab study on environmental adaptation
[Luca Zaniboni](#)
- 15:40 Real-Time Touring Path Recommendation System Based on Outdoor Thermal Comfort for Complex Urban Settings
[Wei Liu](#)
- 15:52 Transient thermophysiological simulation and airflow analysis in non-uniform thermal environment for air-carrying energy system
[Yuting Huang](#)
- 16:04 The benefits of Personalised Environmental Control Systems (PECS) as part of the mixed-mode building operations in India
[Rajan Rawal](#)
- 16:16 Assessing Cool Room Potential for Improving Heat Resilience in Disadvantaged Housing
[Tianzhen Hong](#)
- 16:28 Overheating in Dutch homes Field study in the search for suitable temperature limits
[Froukje van Dijken](#)
- 16:40 Analysis of air distribution and optimization of air-supply parameters under sleeping mode of the residential room
[Yaxian Jiang](#)
- 16:52 The Impact of Diffusion on Temperature Stratification in Buoyancy-Driven Displacement Natural Ventilation
[Yeyu Xiang](#)
- 17:04 Energy-Saving Wood Blinds Using Phase Change Materials: Development and Performance Evaluation
[Ko Yu-Jeong](#)

V-102 CLIMATE CHANGE

Technical chair: Miia Pitkaranta | National chair: Böðvar Bjarnason | BB/HJ/AP

- 15:16 Enhancing Energy Resilience in Healthcare Infrastructure : A study to Evaluate Critical energy Demand
[Manoj Kumar V](#)
- 15:28 Overheating of buildings in future climate: A comparison of two climate zones in Sweden
[Mark Murphy](#)
- 15:40 Building adaptation to climate change: performance-based assessment of indoor air resilience (PAIR)
[Wenjuan Wei](#)
- 15:52 Examine and classify residential buildings with integrated renewable energy systems based on their energy resilience performance under typical and extreme climate conditions in cold climates
[Hassam ur Rehman](#)
- 16:04 Estimation of urban wind profiles in built-up areas from GIS and WRF with a porosity model
[Jue Wang](#)

V-102 DAMPNES AND MOISTURE IN BUILDINGS

Technical chair: Miia Pitkaranta | National chair: Böðvar Bjarnason | BB/HJ/AP

- 16:28 Comparative analysis of Icelandic exterior walls
[Dorotea H Sigurdardottir](#)
- 16:40 Remediation efficacy of flood affected dwellings In Australia
[Heike Dr. Neumeister-Kemp](#)
- 16:52 Healthy building database: Microbial growth in building structures in indoor air problem and reference buildings
[Vuokko Lappalainen](#)

M-201 IAQ

Technical chair: Federico Tartarini | National chair: Gustaf

Computer manager: Bjarki Már Sigmarsson | Time manager: Davíð Hafsteinsson

- 15:16 Exploring how Far-UVC Air Cleaning Devices affect Indoor Air Chemistry
[Toby J. Carter](#)
- 15:28 Developing a User-Tracking Robot with a Nanofiber Air Cleaner for Personal Environmental Control
[Chengzhong Deng](#)
- 15:40 Interaction between Incense Particles and Metal Organic Framework-Nanofiber Filters
[Houhua Wu](#)
- 15:52 Evaluation of efficiency removal of PMs and bioaerosols by prototype of electrostatic air cleaner
[Amelia Staszowska](#)
- 16:04 From Surfaces to Air: How Germicidal UV (222 & 254 nm) Lamps Alter Volatile Organic Compound Levels in Indoor Environments
[Sara Bjerre Sørensen](#)
- 16:16 Contribution of human thermal plume to the microenvironmental distribution of indoor particles
[Alexandru Cernei](#)
- 16:28 Evaluating Particle Clearance, Distribution Homogeneity, and Energy Efficiency under Varying Ventilation Rates in a Sterile Preparation Room
[Anneloes de Lange](#)
- 16:40 Exploring microplastics sources in indoor environments, an emerging pollutant
[Marie-Astrid Dutoit](#)
- 16:52 Fate Of Airborne Ultrafine Particles, Microfibers And Micro organisms In The Human Respiratory Tract And Transport To The Olfactory Region In The Indoor Environment
[Mihalis Lazaridis](#)

V-201 IAQ

Technical chair: Uttam Saha | National chair: Þórunn

Computer manager: Árna Benediktsdóttir | Time manager: Tinna Ingvarsdóttir

- 15:16 Lessons learnt from real-time monitoring and analysis of the IAQ in CUT lecture rooms
[Michalis Michaelides](#)
- 15:28 Locating Air Contaminant Source using a Sensing Robot with Pre-calculated Distribution Database
[Can Xiao](#)
- 15:40 Enhancing Indoor Air Quality Sensor Accuracy: An Optimized Smoothing Algorithm for Reliable HVAC Control
[Maxence Mendez](#)
- 15:52 Increasing the passenger health: in-seat ventilation system for reduced particle spreading
[Daniel Schmeling](#)
- 16:04 Emissions of Per- And Polyfluoroalkyl Substances (PFAS) from Rain Jackets and Resulting Exposure Indoors
[Clara Eichler](#)
- 16:16 Towards developing an indoor emissions inventory for the UK: challenges and future directions
[Christian Pfrang](#)
- 16:28 Relationship of building material emissions and odour perception: perceived intensity, hedonic tone and reasonableness
[Nicole Schulz](#)
- 16:40 Detection of window opening events from CO2 and temperature time series analyses in dwellings
[Virginie Desvignes](#)
- 16:52 Enhancing Thermal Comfort and Indoor Air Quality in Naturally Ventilated Offices with Intermittent Personalized Ventilation
[Ihab Al-Rikabi](#)
- 17:04 Influence of Direct Current Characteristics on Collection Efficiency in Two-Stage Electrostatic Precipitators
[Thilhara Tennakoon](#)

SCHEDULE OVERVIEW

8:30 - 10:04

- V-101 IAQ
- M-101 THERMAL COMFORT
- M-201 HEATING, VENTILATION, AIR CONDITIONING & COOLING
- V-201 PUBLIC HEALTH, OCCUPATION & ENVIRONMENTAL HEALTH
- V-102 WORKPLACES SCHOOLS AND HEALTHY ENVIRONMENTS

8:40

- M-103 WORKSHOP

9:50

- M-103 WORKSHOP

10:04 - 10:28 BREAK

10:28 - 12:04

- V-101 IAQ
- M-101 THERMAL COMFORT
- M-201 HEATING, VENTILATION, AIR CONDITIONING & COOLING
- V-201 WORKPLACES, SCHOOLS AND HEALTHY ENVIRONMENTS
- V-102 WORKPLACES, SCHOOLS & HEALTHY ENVIRONMENTS

11:00

- M-103 WORKSHOP

12:04 - 13:16 LUNCH

13:10

- M-103 WORKSHOP

14:20

- M-103 WORKSHOP

13:16 - 14:52

- V-101 IAQ
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- V-102 WORKPLACES, SCHOOLS AND HEALTHY ENVIRONMENTS

14:52 - 15:16 BREAK

15:30

- M-103 WORKSHOP

15:16 - 15:52

- V-101 IAQ
- M-201 HEATING, VENTILATION, AIR CONDITIONING & COOLING
- V-201 PUBLIC HEALTH, OCCUPATIONAL & ENVIRONMENTAL HEALTH

15:52 - 17:17 MEETING



DETAILED SCHEDULE

V-101 IAQ

Technical chair: Kerry Kinney | National chair: Indriði Nielsson
Computer manager: Egill Grétar Andrason | Time manager: Kamile Morkute

- 8:30 Session Chair Introduction
8:40 INCHEM-Py, applications and developments
David Shaw
- 8:52 Pressure-Based Attribution of Naturally-Driven Infiltration in Residential Buildings
Daniel Rodriguez
- 9:04 Clothing to reduce transdermal uptake of semi-volatile plasticizers from indoor environments
Glenn Morrison
- 9:16 Net4CleanAir–Network for Indoor Air Cleaning
Sofia Sousa
- 9:28 Influence of Relative Humidity on the Emissions of Volatile Organic Compounds from Bio-based Building Materials
Kasper Kristensen
- 9:40 Effects of blending hydrogen with natural gas on gas stove and oven NOx emissions
Daniel Rush
- 9:52 Towards understanding air pollution in homes: the INGENIOUS project
Nicola Carslaw

M-101 THERMAL COMFORT

Technical chair: Jelle Laverge | National chair: Jóhann A.
Computer manager: Bjarki Már Sigmarsson | Time manager: Elías Lúðvíksson

- 8:30 Session Chair Introduction
8:40 Dynamic Model for Enhancing Indoor Environmental Quality: A Proactive Approach to Health and Comfort
Hiba Ajib
- 8:52 Unraveling the Effects of Urban Heat on Summer Outdoor Exercise Capacity
Boze Huang
- 9:04 Dual potential of Garden Rooftop Farms for heat island mitigation and spatial productivity
Xin Dong
- 9:16 Overheating Risk in Dwellings: A global review on Factors, Assessing Methods, Indicators and Adaptation Strategies
Shivani Dolas
- 9:28 Exploring thermal satisfaction variability by occupant exposure in tropical semi-outdoor workspaces
Toby Cheung
- 9:40 Modelling IEQ Factors in Home Offices: Predicting Satisfaction, Work Performance, and Well-Being Using Ordinal Logistic Regression
Sanyogita Manu

M-201 HEATING, VENTILATION, AIR CONDITIONG & COOLING

Technical chair: Hua Qian | National chair: Dórotea
Computer manager: Hjördís | Time manager: Davíð Hafsteinsson

- 8:30 Session Chair Introduction
8:40 Type Of Ventilation Hvac Systems In Large School District Study And Associated Ventilation Rates Per Person, Prior To Extensive Hvac Renovation/Upgrades
Richard Shaughnessy
- 8:52 Classification of Consumption Patterns for HVAC Systems in Terminal Buildings. Based on Feature Extraction and Cluster Analysis
Chao Chen

- 9:04 Cooling strategies to reduce classroom overheating in future climates
Karin Maria Soares Chvatal
- 9:16 A Fourier Neural Operator-Based Method for Rapid Prediction of 3D Indoor Airflow Dynamics
Xiaoxiao Ding
- 9:28 Indoor temperature framework with IoT and AI for smart low-carbon control of urban district heating system in China
Junjie Liu
- 9:40 Sizing of Heat Pumps for Space Heating: Current and Future Projections in Irish Residences
Adam O Donovan

V-201 PUBLIC HEALTH, OCCUPATIONAL & ENVIRONMENTAL HEALTH

Technical chair: Anna Conzatti | National chair: Gustaf
Computer manager: Árna Benediktsdóttir | Time manager: TBA

- 8:30 Session Chair Introduction
8:40 Health benefits of proposed building code changes to address radon and extreme heat, Canada
Janet Gaskin
- 8:52 Local tracer emission mimicking air-borne disease spreading in an office space with mixing ventilation
Mikael Björling
- 9:04 Low-Cost Wearable Sensors: Assessing Worker Exposure to Particulate Matter Across Various Construction Site Tasks
Maria Justo Alonso
- 9:16 Exploring dynamic environmental conditions effect on sleep quality: a longitudinal study comparing day and nighttime exposure
Veronica Martins Gnecco
- 9:28 Complex models and simple results in airborne disease transmission
James Bennett
- 9:40 Ethical Considerations of Inclusive Learning Environments: Addressing how Environmental Factors have an impact to Students with Sensory Needs
Theodora Mavridou
- 9:52 Understanding the role of ventilation in airborne transmission risk: A Monte Carlo approach.
Alexander Edwards

V-102 WORKPLACES, SCHOOLS AND HEALTHY ENVIRONMENTAL

Technical chair: Ulla Haverinen Shaughnessy | National chair: Böðvar Bjarnason
Computer manager: Bergþóra | Time manager: Ásta Logadóttir

- 8:30 Session Chair Introduction
8:40 Sustainable Workplaces Catalysts for productivity and profitability in Indian Business
Ayesha Syeda
- 8:52 Quantifying the impact of workplace environment features on physical activity for hybrid workers: a feasibility wearable sensors study
Charu Srivastava
- 9:04 Perceived and Measured Indoor Environment on a Cruise Ship
Elli Anttila
- 9:16 Thermal preferences of autistic people and coworkers in the workplace: Preliminary insights from a pilot study
Maria Lackovicova
- 9:28 First real-world exemplar of implementing a Blueprint Indoor Air Quality Standards
Lidia Morawska

8 - JUNE 10

9:40 Comparison of Office Worker Perceptions of Two Innovation Centers with Different Concepts

Haruka Matsubara

9:52 IEQ, occupant well-being and energy efficiency in school buildings under climate change: A literature review

Hsing-Yu Ou

M-103 WORKSHOPS

8:40 A Universal Framework for Monitoring & Verification Of Operational Performance of Heat Pump Based Heating Systems

Chair: Paul D O'Sullivan

Category: Heating, ventilation, air conditioning & cooling

9:50 Ventilation and air cleaning: a new era begins

Chair: Marcel Loomans

Category: Indoor air quality, particles, aerosols, chemical pollutants, microbes

10:04 - 10:28 BREAK

V-101 IAQ

Technical chair: Aneta Wierzbicka | National chair: Indriði Nielsson

Computer manager: Egill Grétar Andrason | Time manager: Kamile Morkute

10:28 Fine Particulate Matter Exposures in Kitchens

Elise Huglo

10:40 Catalytic converter filters for airborne pathogen inactivation (viruses and bacteria)

Miguel A. Bañares

10:52 A Blueprint for Using Far-UVC to Mitigate Airborne Pathogens in the Built Environment

James Montavon

11:04 Low-cost formaldehyde sensors and their performance under realistic conditions.

Erik Uhde

11:16 Energy retrofits, a just transition to better indoor air quality: findings from the Irish HAVEN study

Magdalena Hajdukiewicz

11:28 Phase partitioning and source apportionment of organophosphate esters (OPEs) in vehicle cabins under the temperature influence

Meinan Qu

11:40 Exploring Relationships between Microbial and Chemical Contaminants in Residential Dust

David Jarma

M-101 THERMAL COMFORT

Technical chair: Matteo Favero | National chair: Jóhann A.

Computer manager: Bjarki Már Sigmarsson | Time manager: Elías Lúðvíksson

10:28 The Impact of Material Thickness on the Thermal Performance of Wattle and Daub Residences in Sri Lankan vernacular architecture

Oshanie Kumudika Rammuthupura

10:40 Age-related differences in heat acclimatization influenced by muscle mass

Aya Yokoe

10:52 Numerical analysis of individual thermal comfort effectiveness through an occupant-centric optimization control strategy for package air conditioning system

Yunqing Fan

11:04 Improving sleep quality by applying thermoregulation mat to healthy adults in cooling season

Jeong Won Kim

11:16 The Impact of Material Thickness on the Thermal Performance of Wattle and Daub Residences in Sri Lankan vernacular architecture

Oshanie Kumudika Rammuthupura

11:28 A review of kitchen ventilation strategies for residential buildings located in cold climates

Jaya Mukhopadhyay

M-201 HEATING, VENTILATION, AIR CONDITIONING & COOLING

Technical chair: Karin Maria Soares Chvatal | National chair: Dórotea

Computer manager: Hjördís | Time manager: Davíð Hafsteinsson

10:28 Recirculation of return air in Norwegian buildings: Control strategies, air quality, and operational challenges

Maria Justo Alonso

10:40 Calibration of Single-Sided Bottom-Hung Window Ventilation Models

Jun Jiang

10:52 Application of Dynamic Carbon Intensity for TABS operation in Denmark and Japan

Hiromu HIRUMA

11:04 Air flow patterns and draught risk in a cruise ship cabin

Arttu Sivula

11:16 Integrating phase change materials into buildings to improve indoor thermal environment and energy efficiency: a short review

Ou Han

11:28 Effect of Teachers' Awareness on CO₂ Levels and Ventilation Rates in Classrooms

Natalie Bain-Reguis

11:40 Underfloor Cooling in Residential Buildings: Addressing Condensation Risks and Temperature Control

Kättriin Onemar

V-201 PUBLIC HEALTH, OCCUPATIONAL & ENVIRONMENTAL HEALTH

Technical chair: Giorgio Buonanno | National chair: Gustaf

Computer manager: Árna Benediktsdóttir | Time manager: TBA

10:28 The development of a global Indoor Environmental Quality guideline database: Observations and recommendations

Xiaojun Fan

10:40 Exploring the Nexus Between Housing Inequalities and Health: A Systematic Review and Bibliometric Network Analysis

Anna Conzatti

10:52 The first-trimester internal dose of novel and legacy flame-retardant mixture and doctor-diagnosed asthma at age six

Hyunok Choi

11:04 Indoor Exposure Measurements in Vulnerable Communities using Dust and Silicone Wristbands as Passive Samplers

Anna Neville

11:16 Promoting Building Occupant Safety and Indoor Air Quality (IAQ) During and Following Emergencies

Danny Malashock

11:28 The Finnish Indoor Air and Health Programme 2018–2028

Anniina Salmela

11:40 Building a model to predict the contribution to epidemic by each transmission route and countermeasure effectiveness based on infection risks

Atsushi Mizukoshi

V-102 WORKPLACES, SCHOOLS AND HEALTHY ENVIRONMENTS

Technical chair: Amelia Staszowska | National chair: Böðvar Bjarnason

Computer manager: Bergþóra | Time manager: Ásta Logadóttir

10:28 Implications for indoor environmental quality and health of a district-wide school renovation and upgrading bond program

Richard Shaughnessy

10:40 Research on the Development of Environmental Evaluation Methods for Healthcare Facilities Aimed at Achieving Well-being

Yuta Shiozaki

- 10:52 Indoor climate is not indoor climate - How employees perceive indoor climate differently at home and at the office
[Marianne Skaar](#)
- 11:04 An Analysis of Colorado Workplace Indoor Air Quality and Ventilation: Data and Beyond
[Benjamin Swanson](#)
- 11:16 Indoor Environment Cleaning Questionnaire and Hygiene Measurements for Cruise Ships
[Leila Kakko](#)
- 11:28 Scratching the surface: a water-only cleaning intervention in Finnish classrooms
[Martin Täubel](#)
- 11:40 Long-Term Indoor Air Quality Data in Naturally Ventilated Classrooms and Offices Undergoing Energy Retrofits
[Adam Collison](#)

M-103 WORKSHOP

- 11:00 Development and Exploitation of the First Global IAQ Database
[Chair: Bowen Du and Dusan Lucina](#)
Category: Indoor air quality, particles, aerosols, chemical pollutants, microbes

12:04 LUNCH

M-101

12:00 ISIAQ General Annual meeting

M-103 WORKSHOPS

- 13:10 Requirements for Building Thermal Conditions and Indoor Air Quality under Emergency Operations in Cold Climates
[Chair: Alexander Zhivov](#)
Category: Thermal comfort, temperature, hygro-thermal, humidity, dampness
- 14:20 Towards Sustainable, Energy-efficient and Healthy Environment in Service Buildings
[Chair: Ulla Haverinen-Shaughnessy](#)
Category: Workplaces, schools and healthy environments
- 15:30 Retrofitting for Healthier Indoor Air: Challenges and Best Practices
[Chair: Filip Fedorik](#)
Categories: Indoor air quality, particles, aerosols, chemical pollutants, microbes

V-101 IAQ

Technical chair: Frederic Thevenet | National chair: Þórunn
Computer manager: Egill Grétar Andrason | Time manager: Kamile Morkute

- 13:16 Evaluating the use of CO₂ as a quantitative indicator of indoor air quality
[Sonali Deshmukh](#)
- 13:28 Application of PM_{2.5} low-cost sensors for indoor air quality compliance monitoring
[Lidia Morawska](#)
- 13:40 Excellent Antibacterial Performance of ROS-mediated Cu-doped ZIF-8 and the Mechanism of ROS Generation
[Jingkun Zhang](#)
- 13:52 Assessing IoT low-cost sensor networks for long-term outdoor and indoor air quality monitoring
[Jiayao Chen](#)
- 14:04 Application of indoor air quality pre-assessment model based on two-parameter C-history method.
[Haipeng Chen](#)
- 14:16 A pilot study to explore the use of a personalized air cleaner as a localized exhaust for short-range respiratory aerosols in

classroom settings

[Er Ding](#)

- 14:28 Challenges and opportunities in monitoring air purifiers in classrooms
[Sverre Holøs](#)

M-101 THERMAL COMFORT

Technical chair: Toby Cheung | National chair: Kristján Guðlaugsson
Computer manager: Bjarki Már Sigmarsson | Time manager: Elías Lúðvíksson

- 13:16 Dynamic Model for Enhancing Indoor Environmental Quality: A Proactive Approach to Health and Comfort
[Hasan Sayegh](#)
- 13:28 Introducing a standard effective temperature scale adapted for French residential buildings based on field study
[Anaïs Machard](#)
- 13:40 Optimization of Thermal and Visual Comfort in a Safe Indoor Ambient Temperature of a Composite Climate
[Arpita Srivastava](#)
- 13:52 Research on metabolic rate estimation by image analysis using machine learning
[Aoi Tanaka](#)
- 14:04 Energy-Saving Wood Blinds Using Phase Change Materials: Development and Performance Evaluation
[Ko Yu-Jeong](#)
- 14:16 Heritage and Comfort: Indoor Environmental Quality in Belgium's Heritage Townhouses
[Luca Maton](#)

M-201 HEATING, VENTILATION, AIR CONDITIONING & COOLING

Technical chair: Dusan Lucina | National chair: Aldís
Computer manager: Hjördís G. | Time manager: Róbert Gunnar Einarsson

- 13:16 Data Driven Estimates of Home Thermal Control Parameters
[Ansel Early](#)
- 13:28 Investigation on Impacts of Geometry Features of Supply Vents on Optimization of Multi-jet Stratum Ventilation
[Xuchao Wang](#)
- 13:40 Simulating wind- and buoyancy-driven flow using scale model measurements in an atmospheric wind tunnel
[Christina Higgins](#)
- 13:52 Personalised Environmental Control Systems (PECS): a paradigm shift for the indoor climate control
[Marco Perino](#)
- 14:04 Bioinspired Design of Heat Exchanger for Maisotsenko Indirect Evaporative Cooling Cycle
[Jan Fišer](#)
- 14:16 Whole Life Carbon Comparison of Air Source Heat Pump with Natural gas Boiler
[Sahil Ali Khan](#)
- 14:28 Analysis of the Stack Effect in High-Rise Buildings Considering Time-Varying External Conditions
[Shogo Ito](#)

V-201 PUBLIC HEALTH, OCCUPATIONAL & ENVIRONMENTAL HEALTH

Technical chair: Marie Verrielle | National chair: Alma Ívarsdóttir
Computer manager: Bjarki Már Sigmarsson | Time manager: Ásta Logadóttir

- 13:16 The LungCHEM-Py Project
[Toby Carter](#)
- 13:28 Inhalation Exposures and Work-Related Factors in Co-Residential Dry-Cleaning Facilities Following PERC Phase-Out
[Inkyu Han](#)
- 13:40 How can healthcare environments be health promoters? Definition of design and management best practices of healthy Indoor Air Quality
[Marco Gola](#)

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- 13:52 A new coupled hygiene criterion for heterogeneous surface touch networks
[Shenglan Xiao](#)
- 14:04 Assessing glycol vapors as a tool for air disinfection in occupied spaces
[Aman Patel](#)
- 14:16 The Homes, Heat and Healthy Kids Study: The role of underheated homes in preschool respiratory infections.
[Olivia Swann](#)
- 14:28 Challenges in Setting Indoor Environmental Health & Wellness Metrics
[Charlene Bayer](#)

V-102 WORKPLACES, SCHOOLS AND HEALTHY ENVIRONMENTS

Technical chair: Richard Shaughnessy | National chair: Vincent Merida
Computer manager: Bergþór | Time manager: Davíð Hafsteinsson

- 13:16 Changing office layout implementing vertical acoustic panels: evaluation of the impact on workers' perception and behaviour
[Anna Pisello](#)
- 13:28 Assessing indoor environmental quality in schools using IoT devices: Insights from renovation projects
[Samy Clinchard](#)
- 13:40 Integrating 24-hour personal monitoring of environmental stressors: a literature review
[Hailin Zheng](#)
- 13:52 Study on human thermal comfort during moderate and high intensity physical activity in large sports venues
[Shi Liu](#)
- 14:04 Using Wearable Devices to Evaluate the Impact of Indoor Environmental Quality on Teachers' Performance: A Field Study
[Giulia Lamberti](#)
- 14:16 A study on the correlation between work patterns of workers in ABW-oriented offices and Transactive Memory Systems, employee wellness
[Takeeto Suzuki](#)
- 14:28 Integrating the WHO ICF Model into Age-Friendly Housing Design Strategies: A Scoping Review of Spatial Interventions
[Jieun Kim](#)
- 14:40 Assessment of Air Quality in Primary Schools in Denmark using Multimodal Sensor Nodes
[Louise Frederickson](#)

14:52 BREAK

V-101 IAQ

Technical chair: Maria Justo Alonso | National chair: Þórunn
Computer manager: Egill Grétar Andrasen | Time manager: Kamile Morkute

- 15:16 Evaluating the Effectiveness of Reducing PM2.5 Levels by Green Curtain System at Schools in Taiwan
[Yaw-Shyan Tsay](#)
- 15:28 Acoustic-Enhanced Aerosol Filtration: An Energy-Saving Approach for Improved Indoor Air Quality
[Xin Zhang](#)
- 15:40 Characterization of ultrafine particles number concentration and size distribution in the school environment
[Stavroula Katsikari](#)
- 15:52 How Does Personal Hygiene Influence Indoor Air Quality?
[Nijing Wang](#)
- 16:04 Indoor Air Quality of Offices: Beyond CO2 to Chemical Pollutants
[Sarah J.D. Nauwelaerts](#)
- 16:16 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 systematic review
[Jin Sun](#)

- 16:28 Indoor Air Quality Prediction at Building Stock Scale Using MATHIS-QAI
[Thierno Diallo](#)
- 16:40 Indoor Air Quality Classification Based on PM2.5 Measurements from Numerous Buildings
[Martin Thalfeldt](#)
- 16:52 Identification of PFAS sources in indoor environments
[Aurélié Della-Puppa](#)
- 17:04 Linking material emissions and indoor air quality: experimental evaluation and simulation
[Nicole Schulz](#)

M-201 HEATING, VENTILATION, AIR CONDITIONING & COOLING

Technical chair: Daniel Schmeling | National chair: Aldís
Computer manager: Hjördís | Time manager: Róbert Gunnar Einarsson

- 15:16 Energy-Efficient Chiller Sequencing for Hospitals: Prioritizing Critical Air conditioning during Power Outage Restoration
[Manoj Kumar V](#)
- 15:28 Classification of HVAC Electricity Consumption in Airport Terminal Buildings Based on Interpretable Feature Extraction and Feature Clustering
[Nana Su](#)
- 15:40 Optimization of air conditioning operating parameters using machine learning
[Yuya Baba](#)
- 15:52 Energy efficiency in selected rooms in the multi-family residential building
[Martyna Bocian](#)
- 16:04 3D Printed Bioinspired Heat Exchangers for Maisotsenko Cycle
[Patrik Rapta](#)
- 16:16 Simulating dynamic warm-up process in a room heated by the split-type air conditioner
[Zi Cheng](#)

V-201 PUBLIC HEALTH, OCCUPATIONAL & ENVIRONMENTAL HEALTH

Technical chair: Raillard Cécile | National chair: Alma Ívarsdóttir
Computer manager: Bjarki Már Sigmarsson | Time manager: Ásta Logadóttir

- 15:16 Health risk assessment of exposure to semi-volatile organic compounds-contaminated floor dust in housing in Japan
[Kenichi Azuma](#)
- 15:28 Effects of indoor air quality in schools on respiratory health among children: a systematic review
[Jouni J.K. Jaakkola](#)
- 15:40 Epidemiological study on School environment and health (InChildHealth)
[Aino Rantala](#)
- 15:52 In vitro bioaccessibility method for SVOCs in indoor dust
[Marie Dufresne](#)
- 16:04 Exposure to airborne food allergens in elementary schools in Finland, Portugal and United Kingdom: environmental assessment and health effects
[Inês Paciências](#)
- 16:16 Preliminary Assessment of Microbial Contamination in Urban and Rural Homes of Elementary School Children
[Renata Cervantes](#)
- 16:28 Occupational inhalation exposure to welding fumes: distance, level, composition and health effects
[Yiran Lu](#)
- 16:40 Respiratory and Cardiovascular Effects of Ozone Reaction Products (ORPs): Emerging Epidemiologic Evidence
[Jim Zhang](#)
- 16:52 Removal of Microplastics from Wastewater using a Non-invasive

11 - JUNE 10

SCHEDULE OVERVIEW

8:30 - 9:40

V-101 ARCHITECTURE, AESTHETICS,
PASSIVE DESIGN, BIOPHILIA,
BUILDING PHYSICS, BUILDING
TECHNOOLOGY
M-101 COMMUNITY/ECO-LABELLING
M-201 OCCUPANT BEHAVIOR & CONTROLS
V-201 IAQ - ALL OTHER IEQ, ERGONOMICS &
HEALTH TOPICS

8:40

M-103 WORKSHOP

9:50

M-103 WORKSHOP

10:04 - 10:28 BREAK

10:28 - 11:28

V-101 ARCHITECTURE, AESTHETICS, PASSIVE DESIGN,
BIOPHILIA, BUILDING PHYSICS, BUILDING
TECHNOLOGY
M-101 HEATING AND VENTILATION
M-201 PSYCHOLOGY, PSYCHOPHYSICS, PERFORMANCE &
PRODUCTIVITY

11:00

M-103 WORKSHOP

11:28 - 12:15

CLOSING CEREMONY

DETAILED SCHEDULE

V-101 ARCHITECTURE, AESTHETICS, PASSIVE DESIGN, BIOPHILIA, BUILDING PHYSICS, BUILDING TECHNOLOGY

Technical chair: Tunga Salthammer | National chair: Dórotea
Computer manager: Kristján Ingi | Time manager: Árna Benediktsdóttir

8:30 Session Chair Introduction
8:40 Nordic Sustainable Construction – Results from a 3 year
collaboration project by Nordic authorities and industries on
reducing emissions and waste in the construction industry
Bjorn Karlsson
8:52 A Initial Review of Personalized Environmental Control Strategies
in Outdoor and Semi-Outdoor Spaces
Kaho Higuchi
9:04 Development of Floor Plan Retrofit Methods to Reduce Thermal
Health Risks in Low-Insulated Houses in Temperate Regions of
Japan
Ayaka Kani
9:16 Comparative Analysis of Heat Transfer in Polyurethane with
Phase Change Materials: Advancing Multi-Scale Modeling for
Energy Efficiency
Bokai Liu
9:28 Exploring climate resilience and the indoor environment in
Pakistan's higher educational buildings through stakeholder
perspectives
Madeeha Altaf
9:40 Designing for wellbeing: the role of architecture in educational
spaces
Beatriz Piderit-Moreno

M-101 COMMUNITY/ECO-LABELLING

Technical chair: Ricardo Almeida | National chair: Alma Ívarsdóttir
Computer manager: Heiða | Time manager: Bergþóra

8:30 Session Chair Introduction
8:40 Environmental loads and benefits of hybrid offices in the Nordics
Thorhildur Fjola Kristjansdottir
8:52 Empowering School Children to Understand and Improve Air
Quality in Rural Settings through Citizen Science
Shuangyu Wei
9:04 Community-Engaged Frameworks for Healthy and Sustainable
On-Reserve Housing
Sarah Haines
9:16 Enhancing dynamic metabolic rate estimation using calibration
models for portable devices
Yuchun Zhang
9:28 Analysis and standardization of Energy Performance Certificates
and Smart Readiness Indicators across the EU: first results from
the tunES project
Luca Zaniboni
9:40 Are traditional and historic buildings more efficient than their
rating label says?
Oliver Kinnane
9:52 Specification study of building envelope based on LCA and GHG
emissions
Miyu Matsunobu



M-201 OCCUPANT BEHAVIOR & CONTROLS

Technical chair: Sverre Holos | National chair: Björn K.
Computer manager: Kristín | Time manager: Margrét Diljá Ívarsdóttir

- 8:30 Session Chair Introduction
- 8:40 Evaluation of the space efficiency and functionality of residential buildings based on possible activities
[Janine Bardey](#)
- 8:52 Research on cooling control behavior and indoor thermal environment in Korean households, focusing on a comparative study over 20 years
[Hyunji Lee](#)
- 9:04 Profiling the Link Between the Objective Indoor Environment and the Subjective Experience of Occupants
[Carl Grimes](#)
- 9:16 Testing a smartphone-enabled real-time data approach to encourage IAQ-promoting behaviors at home
[Marta Gabriel](#)
- 9:28 From Individual to Occupant Profiles: Aggregated Personal Comfort Models for Occupant-Centric Building Controls
[Pablo Martinez-Alcaraz](#)
- 9:40 Environmental Sustainability, Thermal Performance, and Occupant Behavior: A Danish Case Study in Circular Construction
[Sofie Amalie Sjøberg Buur-Mouridsen](#)
- 9:52 Non-Intrusive Multi-Zone Occupancy Sensing via WiFi: Applications in Office Environments
[Yeeun Kim](#)

V-201 IAQ - ALL OTHER IEQ, ERGONOMICS & HEALTH TOPICS

Technical chair: Giorgio Buonanno | National chair: Ásta
Computer manager: Bjarki Már Sigmarsson | Time manager: Tinna Ingvarsdóttir

- 8:30 Session Chair Introduction
- 8:40 Quantification of semi-volatile organic compounds in nurseries during CRECH-PEFree project
[Mélanie Nicolas](#)
- 8:52 Assessing occupant ear comfort inside trains: Modeling of pressure variation using subjective feedback and real-time data monitoring
[Yibin Lu](#)
- 9:16 Co-creation of an airflow and COVID-19 transmission risk model for humanitarian shelter design
[Anna Conzatti](#)
- 9:28 The Four Factors of the Indoor Environment and How They Interact
[Carl Grimes](#)
- 9:40 Health Performance Indicators (HPIs)-How do they present and measure the Impact of Buildings on Health-A Systematic Review
[Katerina Tsiopoulou](#)
- 9:52 CFD Modeling of PM2.5 Transport and Deposition in the Upper Airways: Integrating Biomedical Aspects through User-Defined Wall Functions
[Hashir P.K](#)

M-103 Workshops

- 8:40 Advancing quality of sleeping environments and sleep research
[Chair: Xiaojun Fan](#)
Category: Heating, ventilation, air conditioning & cooling
- 9:50 InChildHealth
[Chair: Heidi Salonen](#)
Category: Indoor air quality, particles, aerosols, chemical pollutants, microbes

V-101 ARCHITECTURE, AESTHETICS, PASSIVE DESIGN, BIOPHILIA, BUILDING PHYSICS, BUILDING TECHNOOGY

Technical chair: Martin Täubel | National chair: Dórotea
Computer manager: Kristján Ingi | Time manager: Árna Benediktsdóttir

- 10:28 The Bauhaus architects and their indoor climate solutions
[Atze Boerstra](#)
- 10:40 Effect of different heights of photovoltaic on the comprehensive performance of photovoltaic-green roofs
[XiaoTong Feng](#)
- 10:52 Effects of indoor greenery in the workplace: Considerations and insights from a pilot study development
[Lisi Freitas Camboim](#)
- 11:04 Research on the evolution of environmental and equipment technologies in ultra energy-efficient buildings from the past to the present
[Naoya Sugiura](#)

M-101 HEATING & VENTILATION

Technical chair: Marco Perino | National chair: Alma Ívarsdóttir
Computer manager: Róbert Gunnar Einarsson | Time manager: Bjarki Már Sigmarsson

- 10:28 Evaluating the concurrent operation of gaspers for controlling the airborne disease transmission in an economy-class aircraft cabin
[Yunge Hou](#)
- 10:40 Energy savings in existing ventilation systems for residential buildings with small apartments
[Michael Johansson](#)
- 10:52 Tubular Membranes for Enthalpy Exchangers
[Wiebke Wiessner](#)
- 11:04 Optimized PID Control for Adaptive Heating in Buildings: A Model-Based Approach to Enhance Thermal Comfort and Energy Efficiency
[Makram Abdellatif](#)

M-201 PSYCHOLOGY, PSYCHOPHYSICS, PERFORMANCE & PRODUCTIVITY

Technical chair: Carl Grimes | National chair: Björn K.
Computer manager: Kristín | Time manager: Margrét Diljá Ívarsdóttir

- 10:28 Session Chair Introduction
- 10:40 Different perceptions of health risks related to indoor air in neighboring countries Finland, Sweden and Estonia
[Kati Huttunen](#)
- 10:52 Indoor Air Quality and Adolescents' Cognitive Performance: First Results of CO2 and VOC Levels of a Longitudinal Large-Scale Field Study
[Andreas Schütze](#)
- 11:04 Facilitating Cumulative Occupant-Centric Building Science Through Bayesian Region of Practical Equivalence
[Jian Pan](#)

M-103 Workshops

- 11:00 Linking Buildings and Occupant Experience with Symptom Start
[Chair: Carl Grimes](#)
Category: Occupant behavior & controls

11:28 - 12:15 CLOSING CEREMONY

10:04 - 10:28 BREAK