BEAT THE HEAT CONFERENCE 2025

PRELIMINARY PROGRAMME

Swiss TPH, Kreuzstrasse 2, 4123 Allschwil, Switzerland

28 August 2025

08:45 Registration

09:30 Welcome and setting the stage, *organizing committee*

09:45 **Towards a dynamic assessment of urban heat exposure,** *Gabriele Manoli, Laboratory of Urban and Environmental Systems*

10:15 **Heat and health,** *Sarah Koch, Department of Sport, Exercise, and Health, University of Basel*

10:45 Coffee break and posters *(60 minutes)*

11:45 Parallel Session 1

	Monitoring and Measurements: Coupling observations and models *Moderator: tba*	**Mitigation and Impacts:** Understanding health impacts and promoting adaptation *Moderator: tba*
11:45	**A numerical simulation of radiation dynamics in urban canyons**, *Guido de Bonfioli Cavalcabo, University of Basel*	**Extreme humid heat and health: Preliminary findings from a panel study in Basse, The Gambia**, *Caroline Hoffmann, FHNW*
12.00	**Analysing urban heat with built-in thermometers on public buses**, *Gianni Ardielli, ETH Zurich*	**Adapting to urban heat in Lisbon and Islamabad: A qualitative and quantitative analysis**, *Jamie McCaughey, ETH Zurich*
12:15	**Upscaling low-cost urban climate networks with stakeholder needs (ULUC) - First results**, *Moritz Burger, University of Bern*	**Prediction of health impacts and warnings for heatwaves in Switzerland,** *Daniela Domeisen, University of Lausanne*

12:45 Lunch Break *(60 minutes)*

13:45 **Fast track to climate adaptation in Basel,** *Susanne Fischer and Marc Pfister, Basel City Dept. of Public Works and Transport, Urban Planning and Architecture, Spatial Planning Section*

14:15 ***Spotlight:*** **Bridging the gap between science and application – urban climate analysis for adaptive planning,** *Andreas Wicki, GEO Partner AG*

14:35 **Health co-benefits of adaptation measures**, *Cathyn Tonne, Barcelona Institute for Global Health*

15.05 Coffee break and posters *(30 minutes)*

15:35 Parallel Session 2

	Modelling and Simulations: Urban modelling for climate resilience *Moderator: tba*	**Mitigation and Impacts:** Building heat-resilient health systems *Moderator: tba*
15:35	**Selection of surface materials for roofs and outer surfaces (ground) in sustainable cities**, *Caroline Hoffmann, FHNW*	**Evaluation of the implementation of health-related heat protection measures in Switzerland**, *Axel Luyten, Swiss TPH*
15.50	**Downscaled health-relevant heat indices: A machine learning approach leveraging city measurement networks**, *Charles Pierce, University of Bern*	**The heat is on: Supporting home care professionals to adapt to climate change**, *Francesca Cellina, University of Applied Sciences and Arts of Southern Switzerland*
16:05	**Urban-specific heat warning levels based on hours of pedestrian heat stress exposure**, *Svenja Ludwig, University of Freiburg, Germany*	**Co-creating a heat action plan in a nursing home: A case study,** *Cristian Martucci, Swiss TPH and Universitäre Altersmedizin Felix Plattner Basel*

16:35 **Poster awards and closing words**, *organizing committee*

17:00 End of Event

Organizing Committee
Martina Ragettli and Mirko Winkler Swiss Tropical and Public Health Institute
Markus Kalberer and Stavros Stagakis, University of Basel

Swiss TPH
Swiss Tropical and Public Health Institute
Schweizerisches Tropen- und Public Health-Institut
Institut Tropical et de Santé Publique Suisse
Associated Institute of the University of Basel

www.swisstph.ch/events

Posters

Measurements and Monitoring

Authors	Title
Bosch et al.	Fine-scale evaluation of the urban heat island effect using citizen weather stations
Gabriel et al.	Analysis of thermal comfort perception in Lausanne as a variable in urban heat mitigation strategy
Jamarkattel et al.	Analysing Urban Heat Islands in Pokhara Metropolitan City-Nepal through Remote Sensing Techniques
Mosimann et al.	Twenty Years Energy Balance at two urban sites in Basel-Stadt
Rollandi et al.	AUREOLA: Art-Based Misting Installation for Urban Heat Island Mitigation and Public Climate Awareness

Modelling and Simulations

Authors	Title
Amini et al.	Mapping Urban Heat with FAIRUrbTemp: A Dual-Model Approach for Temperature Mapping Across European Cities
Bader et al.	Turning Data into Action: High-Resolution Urban Climate Modeling for Hazard Forecasting and Resilience Planning
Bussalleu et al.	Local Climate Zones and daily temperatures across European cities: implications for health and urban planning
Dönmez et al.	Influence of Urban Canopy Parameters on a Coupled Bulk Urban Canopy Model
Federer et al.	Exploratory Modeling and Analysis of adaptation to urban heat stress under climate change in Switzerland
Feigenwinter et al.	Urban heat emissions monitoring using Copernicus services - a cross-cutting application from the CURE project
Meier et al.	The Direct Impact of Economic Growth on Temperature
Schau-Noppel et al.	EDiT-Cities: Extending urban digital twins with Copernicus data and model simulations for developing resilient cities
Tinner et al.	Modelling European Urban Temperatures with Deep Learning
Wellinger et al.	Optimising Machine Learning Models of Thun's Urban Climate Using High-Resolution Meteorological and Land Use Data
Yin et al.	Cooling down urban green spaces in a future climate

Mitigation and Impacts

Authors	Title
Benz et al.	Castanea sativa as Urban Tree Potential in Zurich North of the Alps: A Case Study
Fortunato et al.	Occupational factors associated with heat strain at work: a Swiss survey on home care workers
Gubler et al.	Urban Climate in Swiss Education - Insights and Perspectives
Jeannetot et al.	Assessing the Impact of Heat on Primary Care in Switzerland Using Patient Data Over 2003-2023
Lüthi et al.	Storylines for month-long heatwaves and associated heat-related mortality impacts over Western Europe
Tobler et al.	The ecological sponge city: The key to a livable and climate-adapted city
Weibel et al.	Heat exposure, impact and management at schools in the Basel region