

NUS Cities Lecture Series - Heat Wave Resilience at Urban Climate Scale || 21 Nov

6 November 2023 || TO NUS Community

Sent on behalf of [NUS Cities](#)

You are cordially invited to the NUS Cities Lecture

Heat Wave Resilience at Urban Climate Scale

Date: 21 November 2023, Tuesday

Time: 6 - 8 pm

Venue: NUS SDE 3, Level 4, Lecture Theatre 421

Click [here](#) to register!

NUS
CITIES Lecture Series



Heat Wave Resilience at Urban Climate Scale

Understanding Urban Climate with Physics Modelling

The lecture would present studies exploring the impact of climate change on the UHI effect for different cities over the world. It would also detail a multiscale approach to studying UHI, ranging from city scale to local urban scale using coupled meteorological and urban microclimate models. It would later present different mitigation scenarios for urban overheating during heatwaves, using vegetation, water spraying and enhanced night ventilation for neighborhoods undergoing densification

Lecture by Prof. Jan Carmeliet

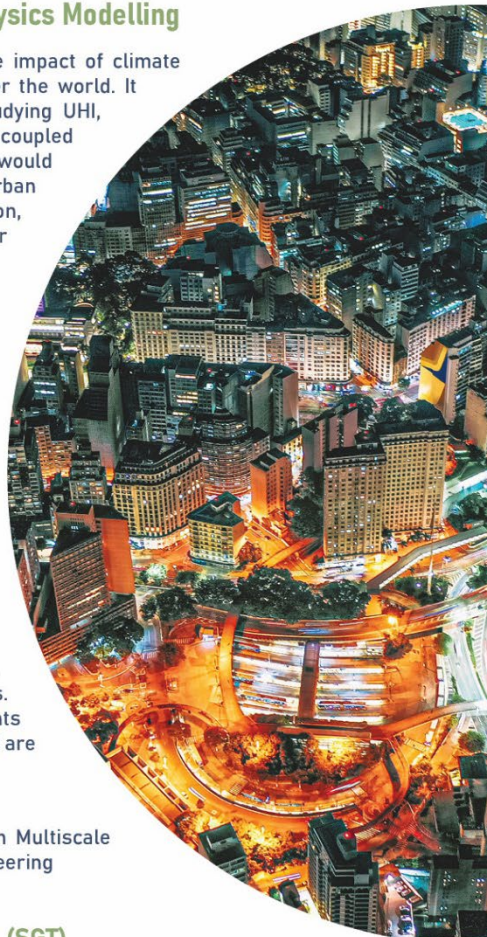
Professor and Chair of Building Physics
Dept. of Mechanical and Process Engineering,
ETH Zurich, Switzerland

Understanding the Role of Trees and Urban Parks in the Urban Climate

As the built environment contains materials that absorb more heat than nature, cities do not cool down sufficiently at night, unlike natural environments. This situation is exacerbated during heat waves, a phenomenon that is clearly increasing. Vegetation, such as street trees, grassy areas and even balcony and roof plants, plays a role in regulating outdoor urban conditions. The lecture aims to elucidate the impact of plants and develop shading and evaporation systems that are inspired by plants.

Lecture by Dominique Derome

Professor and Canadian Research Chair Tier 1 in Multiscale Building Physics, Dept. of Civil and Building Engineering
Université de Sherbrooke, Canada



On 21st Nov 2023, 6:30 p.m. (SGT)
Registration starts 6 p.m. onwards
At NUS SDE3 Level 4, In Lecture Theatre LT421
CPD points pending for BOA SIA | SIP | SILA | PEB
Register Via QR Code as Limited Seats only!

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NUS Cities Lecture Series investigates ideas, policies and projects developed by urban experts, which aspire to create sustainable, resilient and liveable cities