

Third & Final Webinar

SCAN: Street-scale Greening for Cooling and Clean Air in Cities 'Healthy Green Streets'

Date: Wednesday 01 December 2021

BST: 08:00-10:00

AEST: 17:00-19:00

Co-chairs: Professor Prashant Kumar & Professor Pascal Perez

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Registration link for the SCAN webinar event:

<https://www.surrey.ac.uk/events/20211201-third-street-scale-greening-cooling-and-clean-air-cities-scan-webinar>

Direct Zoom link to join: <https://surrey-ac.zoom.us/j/92188525188>

This event is by registration and open to all those interested.

Background

Street canyons are the most polluted city environments due to high traffic volumes and limited ventilation. In the COVID-19 era, urban green infrastructure (GI) is more important than ever. GI offers many benefits, including air pollution abatement. However, relationships between GI, air quality and cooling of the street environment are complex and optimal GI design remains unclear, with potential for negative repercussions. To support decision-makers and address this global need, we will develop a new framework for street-scale greening that is generic, inclusive of pollution-cooling trade-offs, evidence-based, and practicable. We will use experimental and modelling approaches, undertake trial demonstrations, and integrate results to create a collaborative platform. We will engage stakeholders, foster staff-student exchange and develop scope to leverage future funding via research proposals.

Scope

This webinar is an integral aspect of the SCAN project, providing an international platform for researchers to facilitate improved health and wellbeing in cities through knowledge exchange. It is an opportunity to reflect on project activities and share findings and perspectives regarding the use of green infrastructure for urban heat and air quality mitigation, particularly in street canyon environments. This 'Healthy Green Streets' webinar is the final event in the series. It follows on from the 'Green Street, Clean Air Street' and 'Green Street, Cool Street' webinars that were held in March and June 2021, respectively. The aims of this webinar are therefore to round off the project, summarise findings, celebrate achievements, and discuss an outlook for future research in green infrastructure for urban cooling and cleaner air.

Time	Activities
08:00-08:05 (BST) 19:00-19:05 (AEST)	Professor Amelia Hadfield <i>Welcome</i> Dean (International), University of Surrey, United Kingdom
08:05-08:10 (BST) 19:05-19:10 (AEST)	Professor Prashant Kumar and Professor Pascal Perez <i>Brief Introduction to programme & SCAN project</i> Director, Global Centre for Clean Air Research, University of Surrey & Director, SMART, University of Wollongong
Session 1 (Chairs: Professor Lidia Morawska & Dr Hugh Forehead) [Theme: Green Streetscape, Pollution & Heat]	
08:10-08:25 (BST) 19:10-19:25 (AEST)	Professor Pascal Perez <i>Greener streetscapes for a more liveable Western Sydney – getting it right with community and science</i> University of Wollongong, Australia
08:25-08:40 (BST) 19:25-19:40 (AEST)	Professor Barbara Maher <i>The deposition of airborne particulate pollution on roadside tree leaves</i> University of Lancaster, United Kingdom
08:40-08:55 (BST) 19:40-19:55 (AEST)	Dr Renee Marchin Prokopavicius <i>Urban green infrastructure at 50 °C – Will street trees planted today survive the extreme temperatures of tomorrow?</i> Hawkesbury Institute for the Environment, Western Sydney University, Australia
08:55-09:05 (BST) 19:55-20:05 (AEST)	Q&A
Session 2 (Chairs: Professor John Watts & Professor Clare Murphy) [Theme: Greening Tools, Public Engagement & STEM Learning]	
09:05-09:20 (BST) 20:05-20:20 (AEST)	Dr David Fletcher <i>City Explorer Toolkit; combining ES models with social data to guide city planning</i> UK Centre for Hydrology, UK
09:20-09:35 (BST) 20:20-20:35 (AEST)	Yendle Barwise, Mamatha Tomson, Professor Prashant Kumar <i>The HedgeDATE tool and ongoing research on green infrastructure for roadside particle pollution mitigation</i> Global Centre for Clean Air Research, University of Surrey, United Kingdom
09:35-09:50 (BST) 20:35-20:50 (AEST)	Associate Professor Sebastian Pfautsch, Cheryl Gajda, Professor Prashant Kumar <i>Playful STEM Learning: Introducing the Heat-Cool Educational Initiative</i> Global Centre for Clean Air Research, University of Surrey & Western Sydney University, Australia
09:50-10:00 (BST) 20:50-21:00 (AEST)	Q&A Closing Remarks