

## SCAN (Street-scale Greening for Cooling and Clean Air in Cities) 'Green Street, Cool Street'

Date: Tuesday 29 June 2021

UK time: 08:00-10:00 (AM)

Australian time: 17:00-19:00 (PM)

Co-chairs: Professor Prashant Kumar and Professor Pascal Perez

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### Register for the event:

[SCAN webinar registration form | University of Surrey](#)

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 'Green Street, Cool Street' webinar follows on from the 'Green Street, Clean Air Street' webinar that was held in March 2021.

Time	Activities
	<b>Welcome and introduction</b>
<b>8am-8:05am BST (5pm-5:05pm AEST)</b>	<b>Professor Paul Smith</b> <i>Welcome</i> <i>Pro-Vice-Chancellor, Executive Dean (FEPS), University of Surrey</i>
<b>8:05am-8:10am BST (5:05pm-5:10pm AEST)</b>	<b>Professor Amelia Hadfield</b> <i>Global Engagement</i> <i>Dean (International), University of Surrey</i>
<b>8:10am-8:15am BST (5:10pm-5:15pm AEST)</b>	<b>Professor Prashant Kumar &amp; Professor Pascal Perez</b> <i>Brief Introduction to programme &amp; SCAN project</i> <i>Director, Global Centre for Clean Air Research, University of Surrey &amp;</i> <i>Director, SMART, University of Wollongong</i>
<b>Session 1 (Chair: Professor Lidia Morawska, QUT Brisbane &amp; University of Surrey)</b>	
<b>8:15am-8:30am BST (5:15pm-5:30pm AEST)</b>	<b>Associate Professor Sebastian Pfautsch</b> <i>When cooling initiatives make streets warmer</i> <i>Western Sydney University, Australia</i>
<b>8:30am-8:45am BST (5:30pm-5:45pm AEST)</b>	<b>Dr Sara Janhäll</b> <i>Vegetation as a measure against particle air pollution</i> <i>RISE Research Institutes of Sweden</i>
<b>8:45am-8:55am BST (5:45pm-5:55pm AEST)</b>	<b>Dr Tijana Blanusa</b> <i>Plant traits to maximise the delivery of multiple benefits by GI</i> <i>Royal Horticulture Society Wisley, UK</i>
<b>8:55am-9:05am BST (5:55pm-6:05pm AEST)</b>	<b>Dr Elisabeth Larsen</b> <i>Optimising garden tree selection for ecosystem services</i> <i>Royal Horticulture Society Wisley, UK</i>
<b>9:05am-9:15am BST (6:05pm-6:15pm AEST)</b>	<b>Q&amp;A</b>
<b>Session 2 (Chair: Professor John Watts, University of Surrey)</b>	
<b>9:15am-9:30am BST (6:15pm-6:30pm AEST)</b>	<b>Professor John Zhou</b> <i>Strategies for improving vehicle emissions dispersion in urban street canyons</i> <i>Director, Centre for Green Technology, University of Technology Sydney</i>
<b>9:30am-9:45am BST (6:30pm-6:45pm AEST)</b>	<b>Professor Prashant Kumar</b> <i>Recent results on green hedges and air pollution variation in street canyons</i> <i>Founding Director, Global Centre for Clean Air Research (GCARE), University of Surrey, UK</i>
<b>9:45am-10am BST (6:45pm-7pm AEST)</b>	<b>Professor Clare Murphy (Clare Paton-Walsh)</b> <i>The COALA campaigns: Characterising organics and aerosol loading in Australia</i> <i>Director of the Centre for Atmospheric Chemistry, School of Earth Atmospheric and Life Sciences, University of Wollongong</i>
<b>10am BST (7pm AEST)</b>	<b>Concluding remarks</b>

