

# cooling the city

MASTERCLASS

PENRITH

18

FEBRUARY  
2020

JOAN SUTHERLAND  
PERFORMING ARTS  
CENTRE, PENRITH

## Can Good Design Help Solve Sydney's Urban Heat Dilemma?

### REGISTRATION OPENS 8am

The Joan Sutherland Performing Arts Centre Foyer

### SESSION 1 9–10.45am

Q Theatre

#### Opening from Master of Ceremonies

John O'Callaghan

#### Welcome to Country, Graham Davis King

Board Member Deerubbin Local Aboriginal Land Council

#### Welcome by Cr Ross Fowler OAM

Mayor, Penrith City Council

#### Keynote Speakers:

- Dr Diane Pataki, University of Utah:  
*Designing with nature in a hotter, drier world*
- Dr Josh Byrne, Josh Byrne and Associates:  
*Designing for cool: from house to precinct*

Question Time

### MORNING TEA & EXHIBITION SHOWCASE

10.45–11.30am

Malcolm Borland Foyer & Atrium Foyer

### SESSION 2 11.30am–1pm

Q Theatre

#### Case Studies

- Rod Simpson, Greater Sydney Commission:  
*The GSC responses to the challenges of extreme heat*
- Sean Kahn, Frasers Property:  
*Developing climate resilient communities*
- Nick Entsch, Macquarie Group:  
*Macquarie's Green Investment Group (GIG)*
- Dr Simon Toze, CSIRO:  
*Coordinating urban greening  
and cooling within the urban system*

Panel Discussion & Question Time

### LUNCH & EXHIBITION SHOWCASE 1–2pm

Malcolm Borland Foyer & Atrium Foyer

### SESSION 3 2–3pm

Q Theatre

#### Leadership

- Eleni (Lenio) Myrivili, City of Athens/ Harvard University:  
*Heat and the City: Insidious impacts and key responses*
- Beck Dawson, Resilient Sydney:  
*Resilient Sydney: Collaborating for action, investment and policy to address extreme heat*
- Steve Hartley, Department of Planning, Industry and Environment:  
*Greening our city*

Panel Discussion & Question Time

### AFTERNOON TEA 3–3.40pm

Malcolm Borland Foyer

### SESSION 4 3.40–4.30pm

Q Theatre

#### Research and Innovation

- Dr Sebastian Pfautsch, Western Sydney University:  
*Evidence of the urban heat crisis*
- Dr Riccardo Paolini, University of New South Wales:  
*Urban heat mitigation in the Greater Sydney area: from monitoring to implementation*

Question Time

### SESSION 5 4.30–5pm

Q Theatre

#### Closing

- Dr Andy Marks, Western Sydney University:  
*Where to from here?*
- John O'Callaghan, Master of Ceremonies:  
*Masterclass Wrap up*
- Cr Ross Fowler OAM, Mayor of Penrith,  
Penrith City Council: *Closing remarks*

Program



**JOHN O'CALLAGHAN**  
DIRECTOR, JOC  
CONSULTING

## Meet our Master of Ceremonies

JOC Consulting is an urban planning consultancy that creates great places and stronger communities. John O'Callaghan has been recognised as a Tomorrow Maker by AMP, Urban Provocateur by NSW Emerging Architects and finalist in the NSW Creative Talent Award by the NSW Government. He and his team deliver strategic planning, community development and place making services for clients across Australia and John has facilitated workshops for sustainability projects across Sydney including Penrith's Resilience Committee, the Ryde Resilience Plan and Resilient Sydney.

## EXHIBITOR SHOWCASE

OPEN DURING YOUR MASTERCLASS  
NETWORKING BREAKS - IN THE MALCOLM  
BORLAND FOYER AND THE MONDO

Connect with companies who are at the forefront of innovation and research in urban design, heat mitigation and adaptation.

### **ARUP**

Arup will focus on transport infrastructure and its contribution to urban heat by completing a case study of an existing carpark in Penrith.

### **CSIRO**

Sydney Science Park is a fully integrated community that will create more than 12,000 jobs, cater to over 10,000 students and be home to over 10,000 residents. The Park is being designed to be beyond the 'business as usual' developments through the partnering and involvement of a range of research and innovative industries, principally via the Sydney Science Park Urban Living Lab. Find out how the Park will become a leader for education, innovation and sustainable communities.

### **DEPARTMENT OF PLANNING, INDUSTRY AND ENVIRONMENT**

The NSW Government recognises that tree canopy, green spaces and green cover can create healthier and more liveable communities. The NSW Government is working collaboratively with industry and the community to deliver the ambitious target of planting one million trees and increasing green cover by 2022. Gather information about this program and the opportunity to register a tree.

### **INSTITUTE OF AUSTRALIAN CONSULTING ARBORICULTURISTS (IACA)**

Learn about IACA's mission to provide objective and unbiased advice to the community for managing urban trees.

## **PENRITH CITY COUNCIL**

### **MACQUARIE UNIVERSITY**

The Which Plant Where Project (WPW) is on a mission to provide green-life growers and practitioners (Government, industry and landscape designers) with the tools and resources to create sustainable and resilient urban landscapes. Learn about this 5-year project and help co-design some of their end-products.

### **PENRITH CITY COUNCIL SUSTAINABILITY TEAM**

Penrith City Council will showcase its Cooling the City Strategy and case studies of sustainability as well as its Cooling the City programs including, planting projects, the Climate Adaptive People Shelters project and the Jordan Springs Community Hub.

### **RESILIENT SYDNEY**

Learn about The Resilient Sydney Strategy (2018) and the actions that are currently being implemented by the Resilient Sydney team.

### **SKYMONKEY**

Discover a unique perspective on how aerial data can be captured, combined to complement or fill in the gaps of terrestrial captured data, with SkyMonkey's multi-rotor drone with thermal camera.

### **SYDNEY UNIVERSITY CLINICAL SCHOOL**

The Nepean Hospital Department of Cardiology and Sydney University Cardiac Research program have recently partnered with Associate Professor Ollie Jay and the team in the Thermal Ergonomics Laboratory at the University of Sydney. This research aims to seek a better understanding of the physiological causes of heat-wave vulnerability in different populations, and provide evidence-based guidance for the most optimal cooling strategies in low-resource settings. Learn more about this important research and The Thermal Ergonomics Laboratory's current findings.

### **UNIVERSITY OF NEW SOUTH WALES & WESTERN SYDNEY UNIVERSITY**

Attendees will have the rare opportunity to get hands on experience in using scientific heat measuring equipment. Drop by the WSU and UNSW booths for a first-hand experience in measuring surface temperatures in an urban park context.