



Trinity College Dublin  
Coláiste na Tríonóide, Baile Átha Cliath  
The University of Dublin



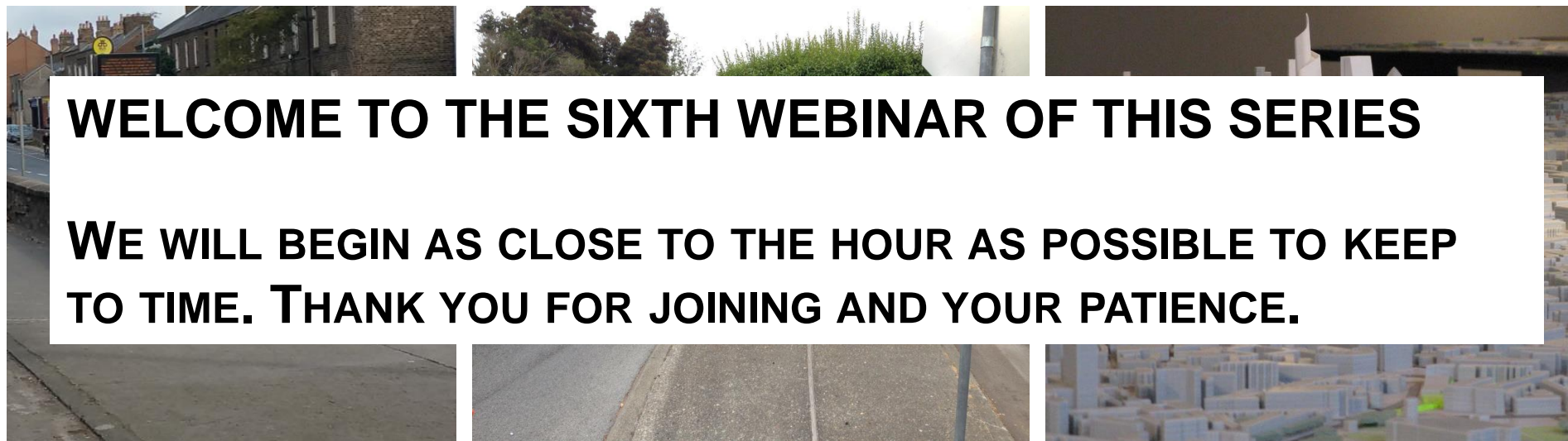
Cornell University

# 'THE INTERNATIONAL AGENDA FOR URBAN AIR POLLUTION AND MITIGATION'

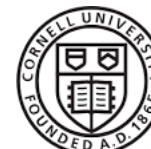
THURSDAY 10<sup>TH</sup> OCTOBER 2019

## 2019 WEBINAR SERIES

**AIR POLLUTION MITIGATION USING PASSIVE TECHNIQUES IN THE BUILT ENVIRONMENT:  
SHARING INTERNATIONAL BEST PRACTICE**



**GREEN INFRASTRUCTURE, SOLID BARRIERS AND URBAN DESIGN**

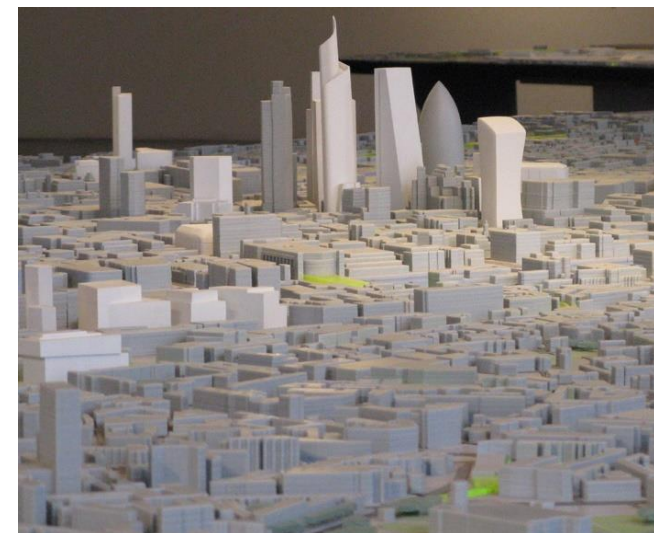


# 'THE INTERNATIONAL AGENDA FOR URBAN AIR POLLUTION AND MITIGATION'

THURSDAY 10<sup>TH</sup> OCTOBER 2019

## 2019 WEBINAR SERIES

### AIR POLLUTION MITIGATION USING PASSIVE TECHNIQUES IN THE BUILT ENVIRONMENT: SHARING INTERNATIONAL BEST PRACTICE



**GREEN INFRASTRUCTURE, SOLID BARRIERS AND URBAN DESIGN**

# DELVING INTO PASSIVE TECHNIQUES FOR AIR POLLUTION MITIGATION

## OVERVIEW OF THIS WEBINAR

### INTRODUCTIONS

**SANDRA CAVALIERI**

CLIMATE & CLEAN AIR COALITION

**CATRIONA BRADY**

WORLD GREEN BUILDING COUNCIL

**DR PIERPAOLO MUDU**

WORLD HEALTH ORGANISATION

**DANG ESPITA-CASANOVA**

CLEAN AIR ASIA

**MARTIN SCHNEEKLOTH**

EUROPEAN COMMISSION CLEAN AIR UNIT

### WEBINAR TALKS

“THE AIR QUALITY IN THE BUILT ENVIRONMENT CAMPAIGN”

“BENEFITS FOR HEALTH FROM URBAN GREEN SPACES STRATEGY IN AIR POLLUTION MITIGATION”

“MAINSTREAMING AIR QUALITY AND CLIMATE MEASURES IN URBAN DEVELOPMENT THROUGH ACTION PLANNING”

“CLEAN AIR OUTLOOK FOR EUROPE: TOWARDS AND BEYOND COMPLIANCE”

### Q&A AND PANEL DISCUSSION



### AUT/WIN SERIES WEBINARS & CLOSING

13 <sup>TH</sup> NOVEMBER	FURTHER NUMERICAL MODELLING TO ASSESS PASSIVE MITIGATION OF AIR POLLUTION: CAPTURING THE REAL WORLD IN NUMBERS
12 <sup>TH</sup> DECEMBER	THE FUTURE OF PASSIVE AIR POLLUTION MITIGATION: FINANCING CLEANER AND GREENER CITIES

INTRODUCTIONS

0-5

WEBINAR TALKS

5-55

Q&A AND PANEL  
DISCUSSION

55-70

NOV & DEC  
WEBINARS

70-75

CLOSING COMMENTS  
/ WHAT NEXT?

# DELVING INTO PASSIVE TECHNIQUES FOR AIR POLLUTION MITIGATION

## INTRODUCTIONS

### WHY WE HAVE ORGANISED THIS WEBINAR?

PASSIVE AIR POLLUTION MITIGATION IS A VERY **ACTIVE FIELD OF RESEARCH** INTERNATIONALLY, BUT COMMUNICATION ACROSS COUNTRIES/CONTINENTS IS SOMEWHAT LIMITED.

THERE IS A NEED TO **SHARE FINDINGS ACROSS DISCIPLINES AND RESEARCH FIELDS,** AND **ENGAGE WITH DIFFERENT STAKEHOLDER GROUPS** TO DELIVER HEALTHIER URBAN GREEN SPACES.

THIS WEBINAR SERIES AIMS TO PROMOTE THE SHARING OF **BEST PRACTICES** AND **ENHANCE COLLABORATIONS** TO IMPROVE CLEANER AIR IN THE BUILT ENVIRONMENT.



INTRODUCTIONS

0-5

WEBINAR TALKS

5-55

Q&A AND PANEL  
DISCUSSION

55-70

NOV & DEC  
WEBINARS

70-75

CLOSING COMMENTS  
/ WHAT NEXT?



# DELVING INTO PASSIVE TECHNIQUES FOR AIR POLLUTION MITIGATION

## INTRODUCTIONS



## WEBINAR SPEAKERS AND TITLES



### THE 'AIR QUALITY IN THE BUILT ENVIRONMENT' CAMPAIGN

CATRIONA BRADY, WORLD GREEN BUILDING COUNCIL & SANDRA CAVALIERI, CLIMATE & CLEAN AIR COALITION

### THE VALUE OF URBAN GREEN SPACES: FOR AND BEYOND AIR QUALITY

DR PIERPAOLO MUDU, EUROPEAN CENTRE FOR ENVIRONMENT AND HEALTH, WORLD HEALTH ORGANISATION



### ADVANCING AIR QUALITY AND CLIMATE CHANGE ACTION IN ASIA THROUGH CAPACITY BUILDING AND ACTION PLANNING

DANG ESPITA-CASANOVA, CLEAN AIR ASIA, MANILA, PHILIPPINES

### CLEAN AIR OUTLOOK FOR EUROPE: TOWARDS AND BEYOND COMPLIANCE

MARTIN SCHNEEKLOTH, CLEAN AIR UNIT IN THE EUROPEAN COMMISSION, BELGIUM



## SPEAKERS:



INTRODUCTIONS

0-5

WEBINAR TALKS

5-55

Q&A AND PANEL  
DISCUSSION

55-70

NOV & DEC  
WEBINARS

70-75

CLOSING COMMENTS  
/ WHAT NEXT?

# DELVING INTO PASSIVE TECHNIQUES FOR AIR POLLUTION MITIGATION

## PROGRAMME TALKS



**CLIMATE &  
CLEAN AIR  
COALITION**  
TO REDUCE SHORT-LIVED  
CLIMATE POLLUTANTS



**SANDRA CAVALIERI**

CLIMATE AND CLEAN AIR COALITION



**WORLD  
GREEN  
BUILDING  
COUNCIL**

**CATRIONA BRADY**

WORLD GREEN BUILDING COUNCIL

### “The ‘Air Quality in the Built Environment’ Campaign

Sandra coordinates the Health Initiative and is responsible for donor reporting and overseeing the CCAC Trust Fund. Sandra joined the CCAC Secretariat in 2012 following six years at the Ecologic Institute in Berlin, Germany, where she led a number of multi-year stakeholder dialogues focused on Arctic environmental governance. Sandra received Master’s degrees in both Public Administration and Natural Resources Policy from North Carolina State University, and an undergraduate degree from Barnard College, Columbia University.

Catriona Brady is Head of WorldGBC’s Better Places for People campaign. The global project supports Green Building Councils and their members to increase the demand and supply of green buildings which are supportive of the health, wellbeing and productivity of the people within them. Catriona comes from a background in environmental consultancy, with relevant experience in sustainability and health-based certification standards. She completed a degree in Geography at the University of St Andrews in 2013.

INTRODUCTIONS

0-5

WEBINAR TALKS

5-55

Q&A AND PANEL  
DISCUSSION

55-70

JUNE WEBINAR &  
AUT/WIN SERIES

70-75

CLOSING COMMENTS  
/ WHAT NEXT?

# DELVING INTO PASSIVE TECHNIQUES FOR AIR POLLUTION MITIGATION

## PROGRAMME TALKS

### “Benefits for Health from Urban Green Spaces Strategy in Air Pollution Mitigation”



**DR. PIERPAOLO MUDU**  
EUROPEAN CENTRE FOR ENVIRONMENT AND  
HEALTH, WORLD HEALTH ORGANISATION

Dr. Mudu is a statistician and geographer that works for the World Health Organisation.

His most recent work includes the coordination of AirQ+, the software that calculates the impacts of air pollution and health and several impact assessment of environmental policy interventions in various countries and cities.

He is part of the steering committee of for the Air Quality Guidelines. He is also coordinating the development of a QGIS plug-in (GreenS+) for the assessment of the impacts of green spaces on health.

INTRODUCTIONS

0-5

WEBINAR TALKS

5-55

Q&A AND PANEL  
DISCUSSION

55-70

JUNE WEBINAR &  
AUT/WIN SERIES

70-75

CLOSING COMMENTS  
/ WHAT NEXT?

# DELVING INTO PASSIVE TECHNIQUES FOR AIR POLLUTION MITIGATION

## PROGRAMME TALKS

### “Mainstreaming air quality and climate measures in urban development through action planning”

Dang is a Senior Air Quality and Climate Change Program Coordinator and supports the Air Quality Program of Clean Air Asia.

She is primarily involved in the Integrated Programme for Better Air Quality (IBAQ Programme), where she coordinates the development of the Guidance Framework for Better Air Quality in Asian Cities. She also contributes to the implementation of upgrades for the Clean Air Scorecard Tool.

She holds a Bachelor’s Degree and is presently completing her Masters Degree in Chemistry from the University of the Philippines, with training on pollution chemistry and natural products from its Marine Science Institute.



Better Air Quality,  
Livable Cities.



**DANG ESPITA-CASANOVA**

AIR QUALITY PROGRAM OF CLEAN AIR ASIA  
CLEAN AIR ASIA

INTRODUCTIONS

0-5

WEBINAR TALKS

5-55

Q&A AND PANEL  
DISCUSSION

55-70

JUNE WEBINAR &  
AUT/WIN SERIES

70-75

CLOSING COMMENTS  
/ WHAT NEXT?



# DELVING INTO PASSIVE TECHNIQUES FOR AIR POLLUTION MITIGATION

## PROGRAMME TALKS

### “Clean Air Outlook for Europe: Towards and Beyond Compliance”



**MARTIN SCHNEEKLOTH**  
CLEAN AIR UNIT,  
EUROPEAN COMMISSION

Martin Schneekloth is a Policy Officer in the C3 Clean Air Unit for the European Commission under the Director General for Environment. He has a Master's degree in biology from the University of Copenhagen and a bachelor's degree in political science from the University of Aarhus.

He has worked as a private consultant and as an environment councillor for the Danish Ministry of Environment and Food as well as for the Ministry of Foreign Affairs of Denmark at the Permanent Representation of Denmark to the European Union in Brussels.

INTRODUCTIONS

0-5

WEBINAR TALKS

5-55

Q&A AND PANEL  
DISCUSSION

55-70

JUNE WEBINAR &  
AUT/WIN SERIES

70-75

CLOSING COMMENTS  
/ WHAT NEXT?

# DELVING INTO PASSIVE TECHNIQUES FOR AIR POLLUTION MITIGATION

## Q&A AND PANEL DISCUSSION

### Q&A FROM AUDIENCE

15 MINUTES

@ENVDRJOHNG

#PASSIVEAIRPOLLUTIONMITIGATION



#GREENINFRASTRUCTURE

#SOLIDBARRIERS

#URBANDESIGN

INTRODUCTIONS

0-5

WEBINAR TALKS

5-55

Q&A AND PANEL  
DISCUSSION

55-70

NOV & DEC  
WEBINARS

70-75

CLOSING COMMENTS  
/ WHAT NEXT?

# DELVING INTO PASSIVE TECHNIQUES FOR AIR POLLUTION MITIGATION NOVEMBER & DECEMBER



Cornell University

## WEDNESDAY 13<sup>TH</sup> NOVEMBER

“FURTHER NUMERICAL MODELLING TO ASSESS PASSIVE MITIGATION OF AIR POLLUTION: CAPTURING THE WORLD IN NUMBERS”



**Impacts of Avenue-Trees and Hedgerows on Dispersion of Traffic Pollutants in Urban Street Canyons**

Dr. Christof Gromke, Karlsruhe Institute of Technology, Germany



**Roadside Barrier Dispersion Algorithm Development with Meteorological Wind Tunnel Support**

Dr. David Heist, U.S. Environmental Protection Agency, USA



**Air Pollution Mitigation using Green Infrastructure**

Dr. Riccardo Buccolieri, University of Salento, Italy

## THURSDAY 12<sup>TH</sup> DECEMBER

“THE FUTURE OF PASSIVE AIR POLLUTION MITIGATION: FINANCING CLEANER AND GREENER CITIES”



**The Economic and Air Quality Environmental Benefits of Urban Trees in Desert Regions**

Dr. Rima J. Isaifan, Hamad Bin Khalifa University, Qatar



**Strategies for Financing Greener Cities**

Alexandru Matei, ICLEI - Local Governments for Sustainability, Europe



**The Value of Clean Air in the Urban Environment**

Beatriz Cardenas, World Resources Institute, Mexico

**SPEAKERS:**



UNIVERSITÀ  
DEL SALENTO



WORLD  
RESOURCES  
INSTITUTE

INTRODUCTIONS

0-5

WEBINAR TALKS

5-55

Q&A AND PANEL  
DISCUSSION

55-70

UPCOMING  
WEBINARS

70-75

CLOSING COMMENTS  
/ WHAT NEXT?

# DELVING INTO PASSIVE TECHNIQUES FOR AIR POLLUTION MITIGATION

## **CLOSING COMMENTS / WHAT NEXT?**

### **KEY POINTS FROM TODAY**

CREATING A COMMUNITY IN THIS SPACE OF AIR POLLUTION MITIGATION

[www.ResearchGate.net/project/2019-Webinar-Series-Passive-Air-Pollution-Mitigation](http://www.ResearchGate.net/project/2019-Webinar-Series-Passive-Air-Pollution-Mitigation)

MORE INFORMATION FROM THIS WEBINAR AND FURTHER WEBINARS IN THE SERIES

[www.tcd.ie/CivilEng/Air-Pollution-Webinar-Series/](http://www.tcd.ie/CivilEng/Air-Pollution-Webinar-Series/)

REGISTERING FOR FUTURE WEBINARS

[https://Passive\\_Air\\_Pollution\\_Mitigation.eventbrite.com](https://Passive_Air_Pollution_Mitigation.eventbrite.com)

CONTACT US DIRECTLY WITH ANY QUERIES, REQUESTS OR FURTHER INFORMATION: [J.Gallagher@tcd.ie](mailto:J.Gallagher@tcd.ie)

INTRODUCTIONS

0-5

WEBINAR TALKS

5-55

Q&A AND PANEL  
DISCUSSION

55-70

Nov & Dec  
WEBINARS

70-75

CLOSING COMMENTS  
/ WHAT NEXT?