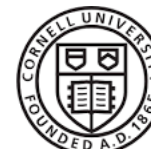




Trinity College Dublin
Coláiste na Tríonóide, Baile Átha Cliath
The University of Dublin



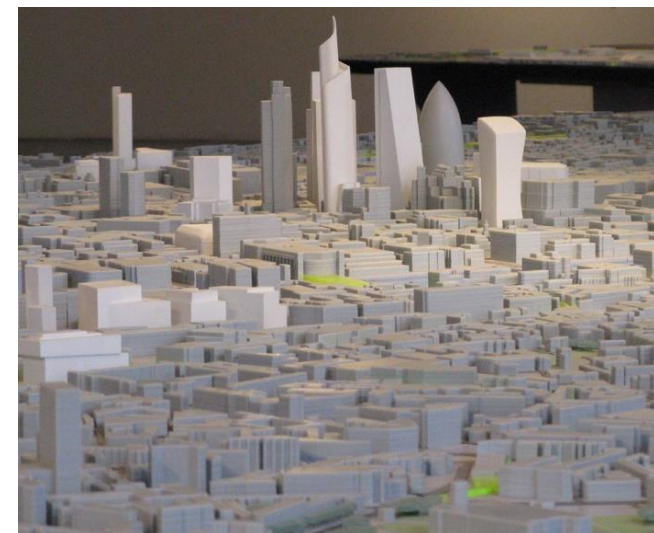
Cornell University

'GREEN INFRASTRUCTURE: THEIR ROLE IN AIR POLLUTION ABATEMENT'

THURSDAY 30TH MAY 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

DR RICHARD BALDAUF

U.S. ENVIRONMENTAL PROTECTION AGENCY, USA

DR SARA JANHÄLL

RISE RESEARCH INSTITUTES OF SWEDEN, SWEDEN

DR DAVID NOWAK

U.S.D.A. Forest Service, USA



WEBINAR TALKS

“EXPLORING GREEN INFRASTRUCTURE AIR QUALITY IMPACTS AS PART OF SUSTAINABLE URBAN DESIGN”

“DEPOSITION AND DISPERSION – INTERACTION BETWEEN VEGETATION AND PARTICLE AIR POLLUTION”

“THE ROLE OF URBAN TREES IN MITIGATING AIR POLLUTION”

Q&A AND PANEL DISCUSSION



JUNE WEBINAR, AUT/WIN SERIES & CLOSING

27TH JUNE

URBAN DESIGN: INFORMING CHANGE THROUGH ADVANCEMENTS IN MODELLING

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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.



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WEBINAR SPEAKERS AND TITLES

CHAIR: DR RICHARD BALDAUF, U.S. ENVIRONMENTAL PROTECTION AGENCY, USA



**“EXPLORING GREEN INFRASTRUCTURE
AIR QUALITY IMPACTS AS PART OF SUSTAINABLE URBAN DESIGN”**



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DR SARA JANHÄLL, RISE RESEARCH INSTITUTES OF SWEDEN, SWEDEN

**“DEPOSITION AND DISPERSION
INTERACTION BETWEEN VEGETATION AND PARTICLE AIR POLLUTION”**

DR DAVID NOWAK, U.S.D.A. FOREST SERVICE, USA



“THE ROLE OF URBAN TREES IN MITIGATING AIR POLLUTION”

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“EXPLORING GREEN INFRASTRUCTURE: AIR QUALITY IMPACTS AS PART OF SUSTAINABLE URBAN DESIGN”

DR. RICHARD BALDAUF
U.S. ENVIRONMENTAL PROTECTION AGENCY, USA



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WEB: WWW.RESEARCHGATE.NET/PROFILE/RICHARD_BALDAUF

DR. BALDAUF IS A SENIOR RESEARCH ENGINEER THAT WORKS FOR EPA'S NATIONAL RISK MANAGEMENT RESEARCH LABORATORY IN RESEARCH TRIANGLE PARK, NC. HE LEADS RESEARCH EFFORTS CHARACTERISING THE IMPACTS OF TRANSPORTATION SOURCES ON LOCAL AIR QUALITY AND DEVELOPING METHODS TO MITIGATE THESE IMPACTS ON HUMAN HEALTH AND THE ENVIRONMENT. RICHARD ADVISES INTERNATIONAL GOVERNMENT AGENCIES ON AIR POLLUTION MITIGATION STRATEGIES THROUGH THE IMPLEMENTATION OF PASSIVE SOLUTIONS AND POLICY ADOPTION.

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RICHARD'S PRESENTATION

DELVING INTO PASSIVE TECHNIQUES FOR AIR POLLUTION MITIGATION

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“DEPOSITION AND DISPERSION: INTERACTION BETWEEN VEGETATION AND PARTICLE AIR POLLUTION”

DR SARA JANHÄLL,
RISE RESEARCH INSTITUTES OF SWEDEN, SWEDEN



EMAIL: SARA.JANHALL@RI.SE

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DR JANHÄLL IS A SENIOR RESEARCHER IN RISE, RESEARCH INSTITUTES OF SWEDEN, IN SWEDEN. SHE HAS WORK IN THE AREA OF SUSTAINABLE CITIES WITH A RESEARCH AND PRACTICE FOCUS ON AIR QUALITY. SHE AIMS TO REDUCE THE NEGATIVE IMPACT AIR POLLUTION ON URBAN INHABITANTS. HER RESEARCH FOCUSES UPON IMPROVING OUR UNDERSTANDING OF PARTICULATE EMISSION FROM DIFFERENT SOURCES AND ASSESSMENTS OF DIFFERENT INTERVENTIONS ON POLLUTION MITIGATION AND HUMAN HEALTH.

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SARA'S PRESENTATION

DELVING INTO PASSIVE TECHNIQUES FOR AIR POLLUTION MITIGATION

PROGRAMME TALKS

“THE ROLE OF URBAN TREES IN MITIGATING AIR POLLUTION”

DR DAVID NOWAK,
U.S.D.A. FOREST SERVICE, USA



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WEB: [HTTPS://WWW.NRS.FS.FED.US/PEOPLE/DNOWAK](https://www.nrs.fs.fed.us/people/dnowak)

DR. NOWAK IS A SENIOR SCIENTIST AND TEAM LEADER WITH THE USDA FOREST SERVICE. HIS RESEARCH INVESTIGATES URBAN FOREST STRUCTURE, HEALTH, AND CHANGE, AND ITS EFFECT ON HUMAN HEALTH AND ENVIRONMENTAL QUALITY THROUGH LONG-TERM MONITORING AND EXPERIMENTAL STUDIES. HE HAS LED IN THE DEVELOPMENT OF I-TREE, WHICH QUANTIFIES THE BENEFITS OF VEGETATION, AND SUPPORTS THE INTEGRATION OF URBAN FOREST ECOSYSTEM SERVICES TO MITIGATE AGAINST AIR POLLUTION IN THE BUILT ENVIRONMENT TO SUSTAIN ENVIRONMENTAL QUALITY, HUMAN HEALTH AND WELL-BEING.

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DELVING INTO PASSIVE TECHNIQUES FOR AIR POLLUTION MITIGATION

Q&A AND PANEL DISCUSSION

Q&A FROM AUDIENCE

15 MINUTES

@ENVDRJOHNG

#PASSIVEAIRPOLLUTIONMITIGATION



#GREENINFRASTRUCTURE

#SOLIDBARRIERS

#URBANDESIGN

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THURSDAY 27TH JUNE

“URBAN DESIGN: INFORMING CHANGE THROUGH ADVANCEMENTS IN MODELLING”

CHAIR: DR. STIJN JANSSEN

“AIR QUALITY MODELLING FOR POLICY SUPPORT:
AN EFFICIENT WAY TO EXPLORE OPTIONS FOR URBAN PLANNING”



DR. VLAD ISAKOV

“REAL-TIME MODELLING OF TRAFFIC-RELATED
AIR POLLUTION AT URBAN SCALES”



cesam
universidade de aveiro
centro de estudos do ambiente
e do mar



DR. VERA RODRIGUES

“HOW CFD MODELLING CAN INFORM GREEN
INFRASTRUCTURE’S ROLE FOR IMPROVING AIR
QUALITY IN URBAN SPACES”

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JUNE BRIEFINGS

AUTUMN/WINTER WEBINAR SERIES

FOUR ADDITIONAL WEBINARS, 1ST THURSDAY OF EACH MONTH, SEPTEMBER TO DECEMBER 2019

EXPANSION OF INTERNATIONAL CONTRIBUTIONS (BEYOND EUROPE AND U.S.)

ROTATION OF WEBINAR HOSTS TO DIFFERENT TIMES ZONES AND RECORDING SESSIONS

DISTRIBUTION OF SURVEY FOR FEEDBACK ON NEXT STEPS FOR ~1,000 PARTICIPANTS IN THE SERIES (SO FAR...)

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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

MORE INFORMATION FROM THIS WEBINAR AND FURTHER WEBINARS IN THE SERIES

www.tcd.ie/CivilEng/Air-Pollution-Webinar-Series/

REGISTERING FOR FUTURE WEBINARS

<https://Passive Air Pollution Mitigation.eventbrite.com>

CONTACT US DIRECTLY WITH ANY QUERIES, REQUESTS OR FURTHER

INFORMATION: J.Gallagher@tcd.ie



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