

**Programme of the  
13th International Conference  
on  
Air Quality - Science and Application  
27 June - 1 July 2022, Thessaloniki, Greece**

**Some delegates presenting posters were not able to attend in person. For these delegates oral presentations on their posters are included and limited to 5 minutes duration (shown in green)**

# Overview Programme of the 13th International Conference on Air Quality - Science and Application

27 June - 1 July 2022, Thessaloniki, Greece  
**Venue: AUTH Research Dissemination Centre**

## Monday 27 June 2022

11:00 Registration desk open at VENUE

18:30 Ice breaker reception at Conference VENUE

## Tuesday 28 June 2022

08:00 Registration desk open at VENUE

08:55 Plenary session (ROOM A)

09:00 Welcome and opening of the conference

1-A1 Chairs: Nicolas Moussiopoulos and Ranjeet S Sokhi

Sokhi Moussiopoulos Schneider

10:10 Tea/coffee and poster session (Exhibition Area)

10:35 Special Session – Air pollution in urban areas - Science challenges and policy implications (ROOM A)

1-A2 Chairs: Alexander Baklanov and Ranjeet S Sokhi

Skorokhod Backman Tchepel Querol Biswal

1-B2

Air pollution sources and emissions (ROOM B)

Chairs: John Bartzis and Zissis Samaras

Fruhwirt Kilian Toumasatos Triantafylopoulos Doulgeris Paunu

1-C2

Special Session – Helmholtz European Partnership for Technological Advancement (HEPTA) (ROOM D)

Chairs: Leon Ntziachristos and Till Riedel

Feld Chatzopoulou Li Ioannidou Tremper

12:25-12:30 Conference Photo

12:30-13:45 Lunch at the University Restaurant

13:50 Special Session – Air pollution in urban areas - Science challenges and policy implications (ROOM A)

1-A3 Chairs: Alexander Baklanov and Ranjeet S Sokhi

Baklanov Canals Badia Andrade Pina Núñez

1-B3

Air pollution sources and emissions (ROOM B)

Chairs: Jana Moldanova and Ummugulsum Alyuz

Ntampos Gross Schmidt De Angelis Viana Graça Mahesh

1-C3

Observations and emerging technologies for monitoring air pollution / Characterization (ROOM D)

Chairs: Sandro Finardi and Sabine Fritz

Parnell Samad Grange Diemoz Gherardi Ivančić

15:55 Tea/coffee and poster session (Exhibition Area)

16:15 Short poster introduction

1-A4 Chairs: Peter Suppan and Evangelia Fragkou

18:00 Close of session

19:30 Welcome reception and guided tour at Teloglion Foundation of Arts AUTH

## Wednesday 29 June 2022

08:00 Registration desk open at VENUE

08:55 Plenary session (ROOM A)

2-A1 Chairs: Nicolas Moussiopoulos and Ranjeet S Sokhi

Mücke Belis Kukkonen

10:00 Tea/coffee and poster session (Exhibition Area)

10:25 Indoor air quality (ROOM A)

2-A2 Chairs: Ari Karppinen and John Bartzis

Kakosimos Maggos Siarga Omidvarborna Olstrup Dwivedi

Special session - Air pollution and health (ROOM B)

2-B2 Chairs: Matthias Ketzel and Steen Solvang Jensen

Soares In 't Veld Silva Yu Vouitsis

Special session - Shipping and air quality (ROOM D)

2-C2 Chairs: Leon Ntziachristos and Volker Matthias

Jensen Majamäki Kuittinen Jonson Fink

12:15-13:45 Lunch at the University Restaurant

13:45 Air quality prediction and forecasting (ROOM A)

2-A3 Chairs: Allan Gross and Alba Badia

San Jose Andersen Deligiorgi Segersson Johansson Parra

Special session - Air pollution and health (ROOM B)

2-B3 Chairs: Matthias Ketzel and Steen Solvang Jensen

Zafeiratou Jacob Im Zhang Areal Gherardi

Special session - Shipping and air quality (ROOM D)

2-C3 Chairs: Leon Ntziachristos and Volker Matthias

Moldanova Eger Karl Jalkanen Grönholm Logothetis

15:50 Tea/coffee and poster session (Exhibition Area)

16:15 Observations and emerging technologies for monitoring air pollution (ROOM A)

2-A4 Chairs: Nuria Castell and Stuart Grange

Tack Shetty Bartyzel Fritz Moolla Lokoshchenko

Special session - Air pollution and health (ROOM B)

2-B4 Chairs: Matthias Ketzel and Steen Solvang Jensen

Zhang Viana Albarracin Melo Simon Castañeda

Local air quality and impact studies (ROOM D)

2-C4 Chairs: Astrid Manders and Ari Karppinen

Bartzis Vogt Krč Norman Norman Riffault

18:20 Close of sessions + followed by International Conference Committee Meeting

Free evening

## Thursday 30 June 2022

08:30 Registration desk open at VENUE

08:55 Plenary session (ROOM A)

3-A1 Chairs: Ranjeet S Sokhi and Nicolas Moussiopoulos

Hood Mertens Monforti-Ferrario

10:00 Tea/coffee and poster session (Exhibition Area)

10:25 Special Session – Ensuring Air Quality through the implementation of the SDGs (ROOM A)

3-A2 Chairs: Theodora Slini, Charalampos Stavridis, Nicolaos Theodossiou (Online) and Eden Mamut (Online)

Murena Halenka Theodossiou Mamut Halenka

Special session - Air pollution and health / Biomonitoring (ROOM B)

3-B2 Chairs: Hans-Guido Mücke and Thomas Maggos

Machado Occelli Di Menno di Bucchianico Gariazzo Tomson

Special Session - Sensors, Crowd Sourcing and Numerical Simulations for urban air quality (ROOM C)

3-C2 Chairs: George Tsegas, Nuria Castell and Klaus Schaefer (Online)

Bousiotis Boehnke Baruah Ibarrola Castell

12:10-13:40 Lunch at the University Restaurant

13:45 Development, application and evaluation of air quality related models for local to global scales (ROOM A)

3-A3 Chairs: Isabel Coll and John Bartzis

Finardi Piccoli Asker Grašić Karl Šedivá

Practical Solutions for AQ Management and Policy (ROOM B)

3-B3 Chairs: Christina Hood, Bernard Fisher, Stefan Reis (Online)

Reis Megaritis Zhong Stidworthy Timmermans Seaton

Special Session - Sensors, Crowd Sourcing and Numerical Simulations for urban air quality (ROOM C)

3-C3 Chairs: George Tsegas, Denise Boehnke and Klaus Schaefer (Online)

Sousa Kassandra Johansson Hueglin Chacon Mateos

15:50 Tea/coffee and poster session (Exhibition Area)

16:15 Special Session - Green Mobility in Smart Cities and Impact on Pollutant Emissions and Air Quality (ROOM A)

3-A4 Chairs: Socrates Basbas, Roberto San Jose and Alex Nikitas (Online)

Benoussaid Margaritis Mitropoulos Tsigdinos Oza Vaghela

Practical Solutions for AQ Management and Policy (ROOM B)

3-B4 Chairs: Christina Hood, Bernard Fisher, Stefan Reis (Online)

Carlo Sousa Santos Fisher Khan González-Figueroa

Meteorological processes and interactions including connections with climate change (ROOM C)

3-C4 Chairs: Tomas Halenka and Sandro Finadi

Sathiyamohan Manders Diemoz Lokoshchenko Dragić Dastoor

18:00 Close of sessions

19:30 Conference Banquet at the Bon Chateau, Oraikastro

## Friday 1 July 2022

**08:30 Registration desk open at VENUE**

**08:55 Plenary session (ROOM C)**

**4-A1** Chairs: Nicolas Moussiopoulos and Ranjeet S Sokhi

Tsegas Ramacher Matthias

**10:10 Tea/coffee**

**10:25 COVID 19 (ROOM C)**

**4-A2** Chairs: Maria Fatima Andrade and George Tsegas

Finardi Diemoz Slini Gregorič

**12:10-13:40 Lunch at the University Restaurant**

**13:45 COVID 19 (ROOM C)**

**4-A3** Chairs: Kester Momoh and George Tsegas

Skorokhod Grange Kalaiarasan Tiwari

**15:15 Plenary session (AUDITORIUM-ROOM A)**

**Future direction of air quality research**

**4-A4** Chairs: Nicolas Moussiopoulos and Ranjeet S Sokhi

**16:00 Close of conference**

*\*Names of delegates giving online presentations are indicated in brown*

*\*Names of delegates giving short online presentations are indicated in green*

**Scientific Programme of the 13th International Conference on Air Quality -  
Science and Application**

**27 June – 1 July 2022**

**Venue: AUTH Research Dissemination Centre**

**Monday 27 June 2022**

**11:00 Registration desk open at VENUE / Poster mounting**

**18:30 Ice breaker reception at conference VENUE**

**Tuesday 28 June 2022**

**08:00 Registration desk open at VENUE**

**08:55 Plenary session (ROOM A) Chairs: Nicolas Moussiopoulos and Ranjeet S Sokhi**

**09:00 Welcome and opening of the conference**

**09:05 Welcome Address by Kostas Gioutikas, Vice Governor of Development and Environment, Region of Central Macedonia**

09:10 **Ranjeet Sokhi**

AIR QUALITY ADVANCES AND CHALLENGES

09:30 **Nicolas Moussiopoulos**

THESSALONIKI AIR QUALITY: A 30 YEAR RETROSPECTIVE AND CRITICAL ANALYSIS

09:50 **Philipp Schneider**

EXPLOITING SENTINEL-5P SATELLITE DATA FOR MAPPING URBAN AIR QUALITY

**10:10 Tea/coffee and poster session (Exhibition area)**

**10:35 Special Session – Air pollution in urban areas - Science challenges and policy implications (ROOM A)**

**Chairs: Alexander Baklanov and Ranjeet S Sokhi**

10:40 **Andrey Skorokhod**

VARIOUS SOURCES OF ABNORMALLY HIGH AEROSOL AIR POLLUTION IN MOSCOW

11:00 **John Backman**

URBAN MOBILITY BASED AIR QUALITY MODELLING WITH A CHEMICAL TRANSPORT MODEL ON A CITY SCALE VALIDATED BY AIR QUALITY MONITORING STATIONS - A TEST CASE

11:20 **Oxana Tchepel**

ROAD TRAFFIC CONTRIBUTION TO URBAN BLACK CARBON CONCENTRATIONS: COIMBRA CASE STUDY

11:40 **Xavier Querol**

*2011-2020 URBAN AND REGIONAL BACKGROUND NH3 TRENDS IN NE SPAIN*

**Air pollution sources and emissions (ROOM B)**

**Chairs: John Bartzis and Zissis Samaras**

**Daniel Fruhwirt**

NON-EXHAUST PM EMISSIONS FROM RAILWAYS - IN-SITU MEASUREMENTS AND PARAMETER STUDY

**Markus Kilian**

COMPARISON OF THE OZONE BUDGET BETWEEN EUROPE AND SOUTHEAST ASIA AS SIMULATED WITH A GLOBAL-REGIONAL MODEL

**Zisimos Toumasatos**

REAL-WORLD DRIVING PN EMISSIONS OF PLUG-IN HYBRID ELECTRIC VEHICLES

**Georgios Triantafyllopoulos**

EXPERIMENTAL STUDY ON THE REAL-WORLD POLLUTANT EMISSIONS PERFORMANCE OF LATEST EURO 6D-ISC LIGHT-DUTY VEHICLES

**Special Session – Helmholtz European Partnership for Technological Advancement (HEPTA) (ROOM D)**

**Chairs: Leon Ntziachristos and Till Riedel**

**Lena Feld**

QUANTIFICATION OF GREENHOUSE GAS EMISSIONS IN THESSALONIKI

**Anthi Chatzopoulou**

PROJECTIONS OF UV SOLAR RADIATION ON GLOBAL SCALE BASED ON SIMULATIONS FROM CMIP6 MODELS- DNA & CIE DOSE EFFECTS

**Chaofan Li**

A COMPOSITIONAL KERNEL LEARNING BASED GAUSSIAN PROCESS MODEL FOR URBAN AIR POLLUTANTS PREDICTION USING UNCERTAIN AND HETEROGENEOUS DATASETS

**Georgia Ioannidou**

ON OPTIMIZING CATALYTIC GLYCEROL HYDRODEOXYGENATION TOWARDS GREEN PROPYLENE

12:00	<b>Akash Biswal</b> <i>A SPATIO-TEMPORAL STREET SCALE VEHICULAR EMISSION MODEL FOR AIR QUALITY STUDIES</i>	<b>Stylianos Doulgeris</b> STUDY ON THE ELECTRIC RANGE OF PLUG-IN HYBRID VEHICLES UNDER REAL WORLD CONDITIONS	<b>Paul Tremper</b> <i>EVALUATING WIND-DEFORMED GAUSSIAN PROCESS KERNELS FOR IMMISSION MODELLING</i>
12:20		<b>Ville-Veikko Paunu</b> <i>UPDATED BLACK CARBON EMISSIONS ESTIMATE FROM FLARING IN RUSSIA IN 2012-2020</i>	
<b>12:25 Conference Photo</b>			
<b>12:30 Lunch at the University Restaurant</b>			
<b>13:45</b>	<b>Special Session – Air pollution in urban areas - Science challenges and policy implications (ROOM A)</b>	<b>Air pollution sources and emissions (ROOM B)</b>	<b>Observations and emerging technologies for monitoring air pollution / Characterization (ROOM D)</b>
	<b>Chairs: Alexander Baklanov and Ranjeet S Sokhi</b>	<b>Chairs: Jana Moldanova and Ummugulsum Alyuz</b>	<b>Chairs: Sandro Finardi and Sabine Fritz</b>
13:50	<b>Alexander Baklanov</b> VEGETATION FIRE AND SMOKE POLLUTION WARNING AND ADVISORY SYSTEM: RESEARCH FOCUS AND METHODOLOGY	<b>Ioannis Ntampos</b> EVALUATION OF A MINIATURISED EXHAUST EMISSION MEASURING SYSTEM USING LOW-COST AMBIENT SENSORS	<b>Jamie Parnell</b> MILLISECOND ROADSIDE AMBIENT NITRIC OXIDE AND NITROGEN DIOXIDE MEASUREMENTS
14:10	<b>Anna Canals</b> 2006-2021 CHANGES IN PM2.5 LEVELS AND SOURCE CONTRIBUTIONS IN THE CITY WUHAN, CHINA BASED ON MEASUREMENTS AND RECEPTOR MODELLING	<b>Allan Gross</b> FROM TERRESTRIAL MACRO-PLASTIC TO ATMOSPHERIC MICRO-PLASTIC: A MICRO-PHYSICAL DESCRIPTION	<b>Abdul Samad</b> VERTICAL PROFILE MEASUREMENTS USING UNMANNED AERIAL VEHICLE (UAV) FOR MONITORING AIR QUALITY IN STUTTGART
14:30	<b>Alba Badia</b> HOW GREEN INFRASTRUCTURES IMPACT ON URBAN AIR QUALITY OVER BARCELONA	<b>Christina Schmidt</b> REAL DRIVING EMISSION MEASUREMENTS OF VEHICLES: A VALIDATION STUDY OF THE PLUME CHASING METHOD	<b>Stuart Grange</b> CHARACTERISATION OF SWITZERLAND'S PM10, PM2.5, AND ASSOCIATED OXIDATIVE POTENTIAL
14:50	<b>Maria De Fatima Andrade</b> AIR QUALITY AND GREENHOUSE GASES IN THE SAO PAULO MEGACITY: INTEGRATED NETWORK	<b>Elena De Angelis</b> <i>COMPARING SOURCE ORIENTED AND RECEPTOR ORIENTED SOURCE APPORTIONMENT RESULTS OVER THE MILAN AREA IN LIFE-REMY PROJECT</i>	<b>Henry Diemoz</b> 20 YEARS OF NO2 VERTICAL COLUMN CONCENTRATIONS IN ROME - RE-EVALUATION OF THE DATA SET WITH AN ADVANCED AND ACCURATE RETRIEVAL TECHNIQUE
15:10	<b>Noela Pina</b> <i>A NEW CLOUD-BASED SERVICE FOR URBAN AIR QUALITY FORECAST</i>	<b>Mar Viana</b> <i>IMPACT OF WILDFIRES ON AIRBORNE PARTICULATE MATTER IN THE IBERIAN PENINSULA</i>	<b>Monica Gherardi</b> <i>IMPROVING THE PRECISION OF MINIDISCS MEASURING UFPS IN MULTIPLE CONFIGURATION</i>
15:30	<b>Marti Núñez</b> <i>NO2 POLLUTION EPISODE IN MADRID AFTER FILOMENA STORM IN JANUARY, 2021</i>	<b>Daniel Graça</b> <i>DEVELOPING AN ATMOSPHERIC EMISSION INVENTORY WITH HIGH SPATIAL AND TEMPORAL RESOLUTIONS IN PORTUGAL</i>	<b>Matic Ivančič</b> <i>DNAAP - DETECTION OF NON-ANTHROPOGENIC AIR POLLUTION</i>



15:50

**Srinath Mahesh**

*ESTIMATION OF REAL-WORLD EMISSIONS FROM CARS  
USING BOOSTED REGRESSION TREE MODELS*

**15:55 Tea/coffee and poster session (Exhibition area)**

**16:15 Short poster introduction**

**Chairs: Peter Suppan and Evangelia Fragkou**

**18:00 Close of sessions**

**19:30 Welcome reception and guided tour at Teloglion Foundation of Arts AUTH**

*\*Oral online presentations are indicated in brown*

*\*Short online presentations are indicated in green*

## Wednesday 29 June 2022

**08:00 Registration desk open at VENUE**

**08:55 Plenary session (ROOM A) Chairs: Nicolas Moussiopoulos and Ranjeet S Sokhi**

09:00 **Hans-Guido Mücke**

NEW WHO GLOBAL AIR QUALITY GUIDELINES - HOW THE CURRENT AMBIENT AIR SITUATION FITS TO IT IN EUROPE

09:20 **Claudio Belis**

GEOGRAPHICAL AREAS AND ACTIVITY SECTORS ASSOCIATED WITH AIR QUALITY HEALTH IMPACTS IN THE UNECE REGION

09:40 **Jaakko Kukkonen**

ADVANCES IN THE ASSESSMENT OF THE IMPACTS OF SHIPPING EMISSIONS

**10:00 Tea/coffee and poster session (Exhibition Area)**

	<b>10:25 Indoor air quality (ROOM A)</b>	<b>Special session - Air pollution and health (ROOM B)</b>	<b>Special session - Shipping and air quality (ROOM D)</b>
	<b>Chairs: Ari Karppinen and John Bartzis</b>	<b>Chairs: Matthias Ketzel, Steen Solvang Jensen and Jaakko Kukkonen (online)</b>	<b>Chairs: Leon Ntziachristos and Volker Matthias</b>
10:30	<b>Konstantinos Kakosimos</b> A FULLY COUPLED AND DYNAMIC DISPERSION-EXPOSURE-RESPONSE MODELLING SCHEME FOR MITIGATION OF INDOOR AND SHORT TERM AIRBORNE RELEASES	<b>Joana Soares</b> HOW WILL 2021 WHO AIR QUALITY GUIDELINES IMPACT THE HEALTH IMPACT ASSESSMENT BY THE EUROPEAN ENVIRONMENT AGENCY	<b>Steen Solvang Jensen</b> CRUISE SHIPS IN DANISH HARBOURS - EMISSIONS, AIR QUALITY AND HEALTH BURDEN
10:50	<b>Thomas Maggos</b> EXPERIMENTAL STUDY OF VISIBLE LIGHT RESPONSIVE PHOTOCATALYTIC PAINTS FOR INDOOR AIR QUALITY IMPROVEMENT	<b>Marten In 'T Veld</b> OXIDATIVE POTENTIAL OF REGIONAL & URBAN BACKGROUND PM10, PM2.5, & PM1 IN BARCELONA	<b>Elisa Majamäki</b> MODELLING EMISSIONS ORIGINATING FROM MARINE LNG ENGINE
11:10	<b>Maria Siarga</b> EXPOSURE DIFFERENTIATION FOR POPULATION GROUPS. AN EXAMPLE FOR PM2.5 AND BAP.	<b>Ana Silva</b> NO2 AND PM10 AVOIDED HEALTH BURDEN IN PORTUGAL IN 2015-2019: APPLICATION OF THE NEW WHO AIR QUALITY GUIDELINES	<b>Niina Kuittinen</b> PARTICLE NUMBER EMISSIONS FROM SHIPPING - EFFECTS OF CLEANER FUELS AND SCRUBBERS
11:30	<b>Hamid Omidvarborna</b> <i>EVALUATION OF THE PERFORMANCE OF DIFFERENT INDOOR AIR QUALITY PREDICTIVE MODELS USING DATASETS FROM A SMART HOME</i>	<b>Hongbin Yu</b> GLOBAL HEALTH BURDEN BY DUST AND POLLUTION PM2.5	<b>Jan Eiof Jonson</b> GLOBAL MODEL CALCULATIONS OF THE EFFECTS OF INTERNATIONAL SHIP EMISSIONS IN DIFFERENT WORLD REGIONS.
11:50	<b>Henrik Olstrup</b> <i>NANOOFFICE - NANOPARTICLES IN NEW AND RENOVATED OFFICE BUILDINGS</i>	<b>Ilias Vouitsis</b> AEROSOL PHASES FROM DIFFERENT TRANSPORTATION SOURCES AND THEIR RELATION TO TOXICOLOGY	<b>Lea Fink</b> CONTRIBUTION OF SHIPPING TO AIR POLLUTION IN THE MEDITERRANEAN REGION - MODEL EVALUATION OF FIVE REGIONAL SCALE CHEMISTRY TRANSPORT MODELS
12:10	<b>Samridhi Dwivedi</b> <i>ASSESSMENT AND PROFILING OF FINE AND ULTRAFINE PARTICULATE MATTER IN LUCKNOW CITY WITH PARTICULAR EMPHASIS TO INDOOR ENVIRONMENT</i>		

**12:15 Lunch at the University Restaurant****13:45 Air quality prediction and forecasting (ROOM A)****Chairs: Allan Gross and Alba Badia****13:50 Roberto San Jose**

ANALYSIS OF IMPACTS IN OZONE CONCENTRATIONS IN MADRID (SPAIN) DURING THE COVID-19 LOCKDOWN WITH WRF/CHEM AND WRF-CAMX/OSAT MODELS

**14:10 Christopher Andersen**

NEW LAGRANGIAN AIR POLLUTION MODEL FOR DENMARK

**14:30 Dafni Delioglani**

AIR QUALITY FORECASTING USING A DEEP LONG-SHORT MEMORY NETWORK MODEL

**14:50 David Segersson**

CONCENTRATIONS OF NOX IN SWEDEN OVER THREE DECADES USING DISPERSION MODELLING AT LOCAL AND REGIONAL SCALE

**15:10 Christer Johansson***IMPROVING 3-DAY DETERMINISTIC AIR POLLUTION FORECASTS USING MACHINE LEARNING***15:30 Rene Parra***INFLUENCE OF THE STARTUP TIME FROM INITIAL CONDITIONS IN MODELING VOLCANIC ASH DISPERSION IN ECUADOR***Special session - Air pollution and health (ROOM B)****Chairs: Matthias Ketzel, Steen Solvang Jensen and Jaakko Kukkonen (online)****Sofia Zafeiratou**

HEAT EFFECTS ON MORTALITY MODIFIED BY AIR POLLUTION IN ATHENS METROPOLITAN AREA, GREECE

**Florence Jacob**

TOXICOLOGICAL IMPACT OF SECONDARY ORGANIC AEROSOLS FORMED FROM THE REACTION OF LIMONENE WITH OZONE

**Ulas Im***FUTURE PREMATURE MORTALITY DUE TO EXPOSURE TO PM2.5***Siqi Zhang***SHORT-TERM EFFECTS OF ULTRAFINE PARTICLES ON HEART RATE VARIABILITY: A SYSTEMATIC REVIEW AND META-ANALYSIS***Ashtyn Areal***THE EFFECT OF AIR POLLUTION ON RESPIRATORY HEALTH OUTCOMES WHEN MODIFIED BY AIR TEMPERATURE: A SYSTEMATIC REVIEW AND META-ANALYSIS.***Monica Gherardi***DIFFERENCE IN CARCINOGENIC POTENCY OF PM10-BOUND PAHS BETWEEN WORKING AND NON-WORKING DAYS IN INDOOR URBAN ENVIRONMENTS.***Special session - Shipping and air quality (ROOM D)****Chairs: Leon Ntziachristos and Volker Matthias****Jana Moldanova**

MEASUREMENT CAMPAIGN FOR CHARACTERISING AND MONITORING OF EMISSIONS FROM VESSEL WITH ALTERNATIVE FUELS AND NOX EMISSION CONTROL

**Philipp Eger**

MEASURING THE IMPACT OF INLAND SHIPPING ON AIR POLLUTANT IMMISSIONS ALONG THE UPPER RHINE IN GERMANY

**Matthias Karl***CITY-SCALE MODELLING OF ULTRAFINE PARTICLES***Jukka-Pekka Jalkanen***EMISSIONS FROM GLOBAL SHIPPING IN 2014-2020***Tiia Grönholm***LNG-FUELED SHIPS: ARE THEY AS CLIMATE-FRIENDLY AS HAS BEEN PREVIOUSLY ESTIMATED***Ioannis Logothetis***THE EFFECT OF INDUSTRIAL AND PORT ACTIVITY ON THE CONCENTRATION OF PM10 AND TROPOSPHERIC O3 IN LIMASSOL AND VASSILIKOS PORT REGIONS***15:50 Tea/coffee and poster session (Exhibition Area)****16:15 Observations and emerging technologies for monitoring air pollution (ROOM A)****Chairs: Nuria Castell and Stuart Grange****16:20 Frederik Tack**

VALIDATION STRATEGIES FOR ATMOSPHERIC SATELLITE MISSIONS LIKE SENTINEL-5P - CASE STUDY OF A NO2 AIRBORNE MAPPING CAMPAIGN OVER BELGIUM

**16:40 Shobitha Shetty****Special session - Air pollution and health (ROOM B)****Chairs: Matthias Ketzel, Steen Solvang Jensen and Jaakko Kukkonen (online)****16:20 Siqi Zhang***SHORT-TERM EFFECTS OF HEAT ON CARDIOPULMONARY MORTALITY MODIFIED BY AIR POLLUTION: RESULTS FROM THE NORWEGIAN CONOR COHORT***16:40 Mar Viana****Local air quality and impact studies (ROOM D)****Chairs: Astrid Manders and Ari Karppinen****16:20 John Bartzis**

SIMPLIFIED MICROSCALE MODELING METHODOLOGIES FOR URBAN AIR QUALITY

**16:40 Ulrich Vogt**

	ESTIMATION OF SURFACE NO <sub>2</sub> CONCENTRATION OVER EUROPE USING SENTINEL-5P OBSERVATIONS AND MACHINE LEARNING MODELS		<i>REDUCING PERSONAL EXPOSURE OF RECREATIONAL RUNNERS TO AIRBORNE PARTICLES IN URBAN ENVIRONMENTS</i>		AIR POLLUTANTS MEASURED AROUND STUTTGART AIRPORT WITH AND WITHOUT AIR TRAFFIC DUE TO A TEMPORAL SHUTDOWN OF THE AIRPORT
17:00	<b>Jakub Bartyzel</b> MEASUREMENTS OF BOUNDARY LAYER VERTICAL PROFILES OF GREENHOUSE GAS MIXING RATIOS AND PARTICULATE MATTER CONCENTRATIONS USING A TETHERED BALLOON - CASE STUDY FROM KRAKOW CITY	17:00	<b>Angie Albarracin Melo</b> SOURCE APPORTIONMENT OF PM <sub>10</sub> , PM <sub>1</sub> AND OXIDATIVE POTENTIAL: A FOCUS ON NON-EXHAUST EMISSIONS	17:00	<b>Pavel Krč</b> PROVIDING RESOLVED 3D MICROSCALE RADIATIVE FLUX FOR PHOTOLYSIS IN THE PALM MODEL
17:20	<b>Sabine Fritz</b> ROAD TRAFFIC OR AIRPORT IMPACT - MOBILE ULTRA FINE PARTICLE MEASUREMENTS IN THE VICINITY OF BERLIN-TEGEL AIRPORT	17:20	<b>Edina Simon</b> <i>USEFULNESS OF TREE SPECIES AS URBAN HEALTH INDICATORS</i>	17:20	<b>Michael Norman</b> IMPACT OF NOISE BARRIERS ON THE OBSERVED AIR QUALITY ALONG ROADS
17:40	<b>Raeesa Moolla</b> <i>PROBABLE HEALTH RISK ASSESSMENT OF BTEX CONCENTRATIONS AT AN INTERNATIONAL AIRPORT IN SOUTH AFRICA</i>	17:25	<b>Dayana Milena Agudelo Castaneda</b> <i>MULTI-ANTIBIOTIC RESISTANCE BACTERIA IN LANDFILL BIOAEROSOLS: A STUDY CASE IN AN INDUSTRIAL CARIBBEAN CITY OF COLOMBIA</i>	17:40	<b>Michael Norman</b> IMPACT OF NOISE BARRIERS ON AIR QUALITY ALONG ROADS
17:45	<b>Mikhail Lokoshchenko</b> <i>STUDYING OF AIR POLLUTION IN BANGALORE</i>			18:00	<b>Veronique Riffault</b> <i>MULTI-ANNUAL SOURCE APPORTIONMENT AND ABSORBING PROPERTIES OF ORGANIC AEROSOLS IN NORTHERN FRANCE</i>

**18:20 Close of sessions + followed by International Conference Committee Meeting (ROOM B)**

**Free evening**

*\*Oral online presentations are indicated in brown*

*\*Short online presentations are indicated in green*

**Thursday 30 June 2022**

**08:30 Registration desk open at VENUE**

**08:55 Plenary session (ROOM A) Chairs: Ranjeet S Sokhi and Nicolas Moussiopoulos**

09:00 **Christina Hood**

NATIONAL ANNUAL AVERAGE STREETSCALE RESOLUTION AIR QUALITY MODELLING

09:20 **Mariano Mertens**

INFLUENCE OF LAND TRANSPORT EMISSIONS ON OZONE IN EUROPE – WHAT CAN WE LEARN FROM COMBINING IMPACT AND CONTRIBUTION ANALYSES?

09:40 **Fabio Monforti-Ferrario**

LINKING CLIMATE MITIGATION AND AIR QUALITY POLICIES AT URBAN LEVEL. EXPERIENCES AND CONSIDERATIONS FROM THE COVENANT OF MAYORS INITIATIVE

**10:00 Tea/coffee and poster session (Exhibition Area)**

**10:25 Special Session – Ensuring Air Quality through the implementation of the SDGs (ROOM A)**

**Chairs: Theodora Slini, Charalampos Stavridis, Nicolaos Theodossiou (Online) and Eden Mamut (Online)**

10:30 **Fabio Murena**

HIGH EMITTERS VEHICLES AND SUSTAINABLE DEVELOPMENT OF URBAN AREAS

10:50 **Tomas Halenka**

CORDEX FLAGSHIP PILOT STUDY ON URBANIZATION - URBAN ENVIRONMENTS AND REGIONAL CLIMATE CHANGE (URB-RCC)

11:10 **Nicolaos Theodossiou**

*THE IMPACT OF AIR QUALITY TO THE IMPLEMENTATION OF THE SDGS*

11:30 **Eden Mamut**

*AIR QUALITY IMPROVEMENT IN URBAN AGGLOMERATIONS BY THE CONVERSION OF FOSSIL FUEL DISTRICT HEATING SYSTEMS INTO RENEWABLE ENERGY PLANTS*

11:50 **Tomas Halenka**

NON-CO2 FORCERS AND THEIR CLIMATE, WEATHER, AIR QUALITY AND HEALTH IMPACTS – NEW PROJECT FOCI

**Special session - Air pollution and health / Biomonitoring (ROOM B)**

**Chairs: Hans-Guido Mücke, Thomas Maggos and Jaakko Kukkonen (online)**

**Milena Machado**

MULTIVARIATE ANALYSIS OF PERCEPTIONS, RESPONSES, AND EFFECTS OF AIR POLLUTION ON QUALITY OF LIFE

**Florent Ocelli**

EXPOSURE TO MULTIPLE AIR POLLUTANTS AND THE INCIDENCE OF CORONARY HEART DISEASE: A FINE-SCALE GEOGRAPHIC ANALYSIS

**Alexandro Di Menno Di Bucchianico**

*THE IMPORTANCE OF AEROBIOLOGICAL MONITORING IN THE AIR QUALITY ASSESSMENT*

**Claudio Gariazzo**

*SHORT-TERM EFFECTS OF PARTICULATE MATTER ON NATURAL MORTALITY IN ITALY*

**Mamatha Tomson**

*GREEN WALLS FOR AIR QUALITY IMPROVEMENTS IN URBAN ENVIRONMENT*

**Special Session - Sensors, Crowd Sourcing and Numerical Simulations for urban air quality (ROOM C)**

**Chairs: George Tsegas, Nuria Castell and Klaus Schaefer (Online)**

**Dimitrios Bousiotis**

USING LOW-COST SENSORS FOR POLLUTION SOURCE IDENTIFICATION AND APPORTIONMENT

**Denise Boehnke**

ASSIMILATING DATA FROM LOCAL THERMAL MEASUREMENTS IN URBAN-SCALE FLOW AND DISPERSION MODELLING

**Arunik Baruah**

EVALUATION OF LOW-COST GAS SENSORS TO QUANTIFY INTRA-URBAN VARIABILITY OF ATMOSPHERIC POLLUTANTS

**Edurne Ibarrola**

THE USE OF SENSOR-BASED AIR QUALITY STATION IN URBAN APPLICATIONS: DIFFERENT CITIES, DIFFERENT CHALLENGES

**Nuria Castell**

ASSESSING AIR POLLUTION FROM WOOD BURNING USING LOW-COST SENSORS AND CITIZEN SCIENCE

**12:10-13:40 Lunch at the University Restaurant**

<b>13:45</b>	<b>Development, application and evaluation of air quality related models for local to global scales (ROOM A)</b>	<b>Practical Solutions for AQ Management and Policy (ROOM B)</b>	<b>Special Session - Sensors, Crowd Sourcing and Numerical Simulations for urban air quality (ROOM C)</b>
	<b>Chairs: Isabel Coll and John Bartzis</b>	<b>Chairs: Christina Hood, Bernard Fisher. Stefan Reis (Online)</b>	<b>Chairs: George Tsegas, Denise Boehnke and Klaus Schaefer (Online)</b>
13:50	<b>Sandro Finardi</b> MULTISCALE AIR QUALITY IMPACT OF AIRPORT AND EN ROUTE AVIATION EMISSIONS	<b>Stefan Reis</b> <i>DEVELOPING AN OPEN, ACCESSIBLE AND FUTURE-PROOF COMMUNITY EMISSION MODEL</i>	<b>Jorge Sousa</b> HOW LOW-COST SENSOR NETWORKS CAN IMPROVE AIR QUALITY MAPPING AND LOCAL EMISSION INVENTORIES
14:10	<b>Andrea Piccoli</b> DEVELOPMENT OF AN ON-LINE HYBRID AIR QUALITY MODELING SYSTEM FOR THE CITY OF MILAN	<b>Thanasis Megaritis</b> FINDING THE RIGHT SOLUTIONS TO IMPROVE URBAN AIR QUALITY: THE CONCAWE NOX/NO2 SOURCE APPORTIONMENT VIEWER	<b>Theodosios Kassandraos</b> DATA FUSION FOR THE IMPROVEMENT OF THE SPATIAL RESOLUTION OF AIR QUALITY MODELING
14:30	<b>Christian Asker</b> DOWNSCALING MODELLING OF GROUND-LEVEL OZONE	<b>Jian Zhong</b> <i>AIR QUALITY MODELLING OVER THE WEST MIDLANDS, UK: APPLICATION OF THE MAQS-HEALTH SYSTEM</i>	<b>Lasse Johansson</b> ON THE USE OF AQ SENSOR DATA IN LOCAL AIR QUALITY MODELLING - A CASE STUDY IN HELSINKI
14:50	<b>Bostian Grašič</b> <i>EVALUATION OF LAGRANGIAN PARTICLE DISPERSION MODEL FOR REGIONAL SCALE UP TO 200 KM BASED ON MODEL VALIDATED ON LOCAL SCALE</i>	<b>Amy Stidworthy</b> <i>TOOLKIT FOR EVALUATING REGIONAL AND LOCAL AIR QUALITY MODELS WITH OBSERVATIONS</i>	<b>Christoph Hueglin</b> <i>PERFORMANCE OF LOW-COST SENSORS FOR NO AND NO2 DURING LONG-TERM DEPLOYMENTS</i>
15:10	<b>Matthias Karl</b> <i>OPEN ACCESS AEROSOL DYNAMICS MODEL MAFOR</i>	<b>Renske Timmermans</b> <i>AQ-WATCH'S AIR QUALITY SOURCE ATTRIBUTION AND MITIGATION SERVICE</i>	<b>Miriam Chacon Mateos</b> <i>IS A CALIBRATION IN A CLIMATIC CHAMBER GOOD ENOUGH TO CORRECT FIELD MEASUREMENTS OF NO2 LOW-COST SENSORS?</i>
15:30	<b>Tereza Šedivá</b> <i>IMPACT OF TEMPORAL EMISSION PROFILES ON PM10 CONCENTRATIONS IN CHEMICAL-TRANSPORT MODEL</i>	<b>Martin Seaton</b> <i>A MULTI-MODEL AIR QUALITY SYSTEM FOR HEALTH RESEARCH</i>	

**15:50 Tea/coffee and poster session (Exhibition area)**

<b>16:15</b>	<b>Special Session - Green Mobility in Smart Cities and Impact on Pollutant Emissions and Air Quality (ROOM A)</b>	<b>Practical Solutions for AQ Management and Policy (ROOM B)</b>	<b>Meteorological processes and interactions including connections with climate change (ROOM C)</b>
	<b>Chairs: Socrates Basbas, Roberto San Jose and Alex Nikitas (Online)</b>	<b>Chairs: Christina Hood, Bernard Fisher. Stefan Reis (Online)</b>	<b>Chairs: Tomas Halenka and Sandro Finadi</b>
16:20	<b>Taos Benoussaid</b> THE NEED TO MODEL MOBILITY BEHAVIOURS FOR A BETTER ASSESSMENT OF AIR POLLUTION EXPOSURE AND TO HIGHLIGHT ENVIRONMENTAL HEALTH INEQUALITIES	<b>Oliver Carlo</b> <i>REVIEW OF OBSTACLES INFLUENCE ON AIR POLLUTANT DISPERSION IN STREET CANYONS</i>	<b>Gobishankar Sathiyamohan</b> <i>IMPACTS OF PARTICULATE MATTER ON THE ARABIAN SEA TROPICAL CYCLONES - POLLUTANTS FROM INDIA ARE A MAJOR CONCERN</i>

16:40 **Dimitris Margaritis**  
AIR QUALITY MEASUREMENTS FROM ON-BOARD  
PORTABLE PODS VS FIXED MONITORING STATIONS IN THE  
CITY OF THESSALONIKI

17:00 **Lambros Mitropoulos**  
*SUSTAINABLE MOBILITY MEASURES IN URBAN HILLY  
AREAS*

17:20 **Stefanos Tsigdinos**  
*CONCEPTS FOR A SUSTAINABLE URBAN ROAD OF THE  
FUTURE: A SYSTEMATIC REVIEW*

17:40 **Rishabh Oza**  
*SPATIO-TEMPORAL MAPPING AND ASSESSMENT OF SO<sub>2</sub>  
LED AIR POLLUTION OVER MEGACITY DELHI, INDIA USING  
TROPOMI DATA*

17:45 **Aditya Vaghela**  
*SPATIO-TEMPORAL MAPPING AND ASSESSMENT OF NO<sub>2</sub>  
LED AIR POLLUTION OVER MEGACITY DELHI, INDIA USING  
TROPOMI DATA*

**18:00 Close of sessions**

**19:30 Conference Banquet at the Bon Chateau, Oraiokastro**

*\*Oral online presentations are indicated in brown*

*\*Short online presentations are indicated in green*

**Gabriela Sousa Santos**  
HITTING THE HOTSPOTS - TARGETED DEPLOYMENT OF  
AIR SOURCE HEAT PUMP TECHNOLOGY TO DELIVER  
CLEAN AIR COMMUNITIES AND CLIMATE PROGRESS: A  
CASE STUDY OF IRELAND

**Bernard Fisher**  
SETTING TARGETS FOR UK AIR POLLUTANTS COMPATIBLE  
WITH NET CARBON ZERO

**Jibrán Khan**  
*AIR QUALITY AT YOUR STREET 2.0: RECENT ADVANCES IN  
NATIONAL MULTI-SCALE AIR POLLUTION ASSESSMENT  
TOOL OF DENMARK*

**Carlos Gonzalez-Figueroa**  
*AIR QUALITY MANAGEMENT POLICIES ASSESSMENT  
METHODOLOGY FOR THE GUADALAJARA METROPOLITAN  
AREA IN MEXICO*

**Astrid Manders**  
PREDICTION OF OZONE EXCEEDANCES WITH CLIMATE  
INDICATORS USING MACHINE LEARNING

**Henri Diemoz**  
VERTICAL PROFILE OF THE AEROSOL DIRECT RADIATIVE  
EFFECT IN AN ALPINE VALLEY

**Mikhail Lokoshchenko**  
*INFLUENCE OF METEOROLOGICAL PARAMETERS ON THE  
SURFACE AIR COMPOSITION IN MOSCOW*

**Natasa Dragic**  
*IMPACT OF METEOROLOGICAL CONDITIONS ON AMBIENT  
FINE PARTICULATE MATTER (PM<sub>2.5</sub>) IN THE CITY OF NOVI  
SAD, SERBIA*

**Ashu Dastoor**  
*ENVIRONMENTAL EFFECTS OF MERCURY EMISSIONS  
FROM ATHABASCA OIL SANDS DEVELOPMENT (ALBERTA,  
CANADA)*

## Friday 1 July 2022

**08:30 Registration desk open at VENUE**

**08:55 Plenary session (ROOM C) Chairs: Nicolas Moussiopoulos and Ranjeet S Sokhi**

**09:00 Greetings by Professor Nikolaos Papaioannou, Rector of the Aristotle University of Thessaloniki**

09:10 **George Tsegas**

AIR QUALITY IMPACTS OF THE COVID-19 LOCKDOWNS: AN OBSERVATION AND MODELLING OVERVIEW

09:30 **Martin Otto Paul Ramacher**

URBAN POPULATION EXPOSURE TO AIR POLLUTION UNDER COVID-19 LOCKDOWN CONDITIONS: THE COMBINED EFFECT OF CHANGING EMISSIONS AND POPULATION ACTIVITY PATTERNS

09:50 **Volker Matthias**

IMPACT OF THE COVID-19 LOCKDOWN EMISSION REDUCTIONS ON SECONDARY POLLUTANTS IN CENTRAL EUROPE

**10:10 Tea/coffee**

**10:35 COVID 19 (ROOM C)**

**Chairs: Maria Fatima Andrade and George Tsegas**

10:40 **Sandro Finardi**

MODELLING ANALYSIS OF COVID-19 MEASURES IMPACT ON THE AIR QUALITY IN ROME

11:00 **Henri Diemoz**

THE 2020 LOCKDOWN IN AN ALPINE REGION - DISENTANGLING THE EFFECT OF METEOROLOGY AND EMISSIONS ON POLLUTANT CONCENTRATIONS

11:20 **Theodora Slini**

AIR QUALITY AND ENERGY IN GREECE: PRE AND POST COVID 19 FACTS

11:40 **Asta Gregorič**

*FIVE-YEAR TREND OF HOURLY RESOLVED, SOURCE-SEPARATED BLACK CARBON EMISSION RATES IN A CENTRAL-EUROPEAN CITY*

**12:00-13:30 Lunch at the University Restaurant**

**13:35 COVID 19 (ROOM C)**

**Chairs: Kester Momoh and George Tsegas**



13:40 **Andrey Skorokhod**  
THE INFLUENCE OF COVID-19 LOCKDOWN AND  
METEOROLOGICAL CONDITIONS ON THE ATMOSPHERIC  
AIR COMPOSITION IN MOSCOW IN 2020

14:00 **Stuart Grange**  
EUROPEAN URBAN AIR QUALITY AND COVID-19  
LOCKDOWNS

14:20 **Gopinath Kalaiarasan**  
*ACTIVE AIR SAMPLING FOR UNDERSTANDING THE  
VENTILATION AND INFECTION RISKS FOR THE  
TRANSMISSION OF SARS-COV-2 IN PUBLIC INDOOR  
ENVIRONMENTS*

14:40 **Arvind Tiwari**  
*ASSESSMENT OF AIRBORNE PARTICLES, VENTILATION  
AND COVID-19 TRANSMISSION RISK IN UK SCHOOLS*

**15:00 Plenary session (AUDITORIUM-ROOM A)**

**Future direction of air quality research**

**Chairs: Nicolas Moussiopoulos and Ranjeet S Sokhi**

**16:00 Close of conference**

*\*Oral online presentations are indicated in brown*

## 13th International Conference on Air Quality - Science and Application

27 June - 1 July 2022, Thessaloniki, Greece

Venue: AUTH Research Dissemination Centre

### LIST OF POSTERS

In-person poster mounting in basement foyer starting from Monday 11:00 AM

#### IN-PERSON POSTERS

Poster Introduction: ROOM A On Tuesday 28 June

Poster Number	First Name	Last Name	TITLE
1	Elie	Al Marj	IMPACT OF URBAN AIR QUALITY ON HEALTH STUDIED AT THE LABORATORY: THE POLLURISK PLATFORM
2	Neda	Aleksandrov	MODEL VERIFICATION OVER FOUR CITIES IN SERBIA USING TAYLOR DIAGRAMS
3	Ummugulsum	Alyuz	IMPROVING WRF MODEL PERFORMANCE FOR EUROPEAN COASTAL REGIONS: CONTRIBUTION TO THE H2020 EMERGE PROJECT
4	Joana V.	Barbosa	A META-ANALYSIS ON THE ROLE OF EXPOSURE TO FIRE SMOKE ON FIREFIGHTERS LUNG FUNCTION
5	Christos	Boikos	CFD DISPERSION MODELLING OF SHIP EMISSIONS IN THE PORT OF MARSEILLE
6	Hiten	Chojer	REAL WORLD PERFORMANCE OF LOW-COST SENSORS DEVICES FOR INDOOR AIR PARTICULATE MATTER MONITORING
7	Patrice	Coll	IMPACT OF URBAN AIR QUALITY ON HEALTH STUDIED AT THE LABORATORY WITH THE POLLURISK PLATFORM: PRELIMINARY RESULTS OF INNOVATIVE STUDIES AT THE LABORATORY
8	Matteo	Costa	SIMBAD: A SIMPLIFIED MODEL FOR THE EVALUATION OF AIR QUALITY REMEDIATION POLICIES
9	Suzanne	Crumeyroille	NEW PARTICLE FORMATION OBSERVED IN THE CLOSE VICINITY OF A FRENCH MEGALOPOLIS
10	Constantin	Fuchs	SYNTHESIS OF SUSTAINABLE FUELS BY HETEROGENEOUSLY CATALYZED OLIGOMERIZATION OF RENEWABLE C2-C4 OLEFINS
11	Paul	Gäbel	DEVELOPMENT OF AIR QUALITY BOXES BASED ON LOW-COST SENSOR TECHNOLOGY FOR AMBIENT AIR QUALITY MONITORING
12	Panagiotis	Gkirmpas	ESTIMATION OF UNKNOWN SOURCE PARAMETERS IN URBAN DOMAIN
13	Henrik	Grythe	UNVEILING ATMOSPHERIC EMISSIONS FROM CONSTRUCTION SITES
14	Giannis	Ioannides	SIMULATION OF POLLUTANT DISPERSION IN AN URBAN ENVIRONMENT
15	Soultana	Ioannidou	"GREEN" HYDROCARBON FUELS PRODUCTION FROM LIGNOCELLULOSIC BIOMASS SUGARS TOWARDS REDUCING CO2 EMISSIONS
16	Blaise	Kelly	DETERMINING RISK FROM AIR POLLUTION USING HIGH RESOLUTION MOBILE PHONE AND CONCENTRATION DATA
17	Tom	Kokkonen	URBAN CHARACTERISTICS DEFINING THE SPATIAL VARIATION OF AIR QUALITY IN DOWNTOWN NANJING
18	Anastasios	Kontses	PARTICLE EMISSIONS OF A HYBRID AND A CNG VEHICLE: FOCUS ON URBAN ROUTES AND THE COLD-START PHASE
19	Susana	Lopez-Aparicio	WHEN WOOD BURNING IN SECONDARY HOMES AFFECTS PROXIES FOR HEATING EMISSIONS
20	Marios	Mermigkas	TOTAL COLUMN AVERAGED MIXING RATIOS OF CO OVER THESSALONIKI, GREECE, USING A PORTABLE EM27/SUN FTIR SPECTROMETER AND TROPOMI OBSERVATIONS: A FIRE EPISODE CASE STUDY DURING SUMMER 2021
21	Michael	Norman	IMPACT ON THE AIR QUALITY FROM THE LARGE WASTE FIRE IN BOTKYRKA, SWEDEN
22	Rafael	Nunes	HEALTH AND ECONOMIC BURDEN OF SHIP-RELATED PM2.5 IN PORTUGUESE PORT CITIES
23	Vadim	Rakitin	LONG-TERM TENDENCIES OF CARBON MONOXIDE IN THE ATMOSPHERE OF THE MOSCOW MEGAPOLIS
24	Martin	Ramacher	INLAND SHIPPING EMISSION IMPACTS ON URBAN AIR QUALITY IN WESTERN-EUROPE - CURRENT & FUTURE FLEET EMISSION SCENARIOS BASED ON REAL-WORLD EMISSION FACTORS
25	Nikolaos	Rapkos	IMPACT OF WIND SPEED IN GAS DEPOSITION ON SEA SURFACE FROM SHIPPING

26	Juanita	Rausch	CASE STUDY: QUANTIFYING COARSE DUST ABATEMENT MEASURES IMPLEMENTED AT JURA CEMENT FACTORY (SWITZERLAND) USING PASSIVE SAMPLERS
27	Alex	Resovsky	DEVELOPMENT OF AN AIR POLLUTANT EMISSIONS INVENTORY AND MODELING FRAMEWORK FOR AIR QUALITY CONTROL MEASURES IN LAGOS, NIGERIA
28	Ioannis	Sakellaris	SELF-REPORTED HEALTH SYMPTOMS AND OCCUPANTS' COMFORT IN OFFICES AT WESTERN MACEDONIA AREA, GREECE DURING THE PANDEMIC PERIOD
29	Josep Maria	Salanova Grau	SMART MOBILITY ESTIMATIONS AND INTELLIGENT AQ MONITORING FOR THE SUPPORT OF GREEN MOBILITY
30	Philipp	Schiffmann	GHG AND POLLUTANT EMISSIONS MAPPING ON GEOTHERMAL SITES
31	Zisimos	Toumasatos	THE ROLE OF DPF REGENERATION EVENTS ON POLLUTANT EMISSIONS OF A EURO 6D-TEMP PASSENGER VEHICLE
32	Xuan Trinh	Truong	GRANULOMETRY OF TIRE AND ROAD WEAR PARTICLES EMISSIONS ACCORDING TO DIFFERENT ROUTES
33	Mar	Viana	AIR QUALITY MONITORING IN ATHLETICS STADIUMS: CAN LOW-COST SENSOR TECHNOLOGIES SUPPORT GUIDANCE FOR INTERNATIONAL COMPETITIONS?

#### ONLINE POSTERS

Dayana Milena	Agudelo Castaneda	MULTI-ANTIBIOTIC RESISTANCE BACTERIA IN LANDFILL BIOAEROSOLS: A STUDY CASE IN AN INDUSTRIAL CARIBBEAN CITY OF COLOMBIA
Ashu	Dastoor	ENVIRONMENTAL EFFECTS OF MERCURY EMISSIONS FROM ATHABASCA OIL SANDS DEVELOPMENT (ALBERTA, CANADA)
Natasa	Dragic	IMPACT OF METEOROLOGICAL CONDITIONS ON AMBIENT FINE PARTICULATE MATTER (PM2.5) IN THE CITY OF NOVI SAD, SERBIA
Samridhi	Dwivedi	ASSESSMENT AND PROFILING OF FINE AND ULTRAFINE PARTICULATE MATTER IN LUCKNOW CITY WITH PARTICULAR EMPHASIS TO INDOOR ENVIRONMENT
Carlos	Gonzalez-Figueroa	AIR QUALITY MANAGEMENT POLICIES ASSESSMENT METHODOLOGY FOR THE GUADALAJARA METROPOLITAN AREA IN MEXICO
Mikhail	Lokoshchenko	STUDYING OF AIR POLLUTION IN BANGALORE
Srinath	Mahesh	ESTIMATION OF REAL-WORLD EMISSIONS FROM CARS USING BOOSTED REGRESSION TREE MODELS
Raeesa	Moolla	PROBABLE HEALTH RISK ASSESSMENT OF BTEX CONCENTRATIONS AT AN INTERNATIONAL AIRPORT IN SOUTH AFRICA
Rishabh	Oza	SPATIO-TEMPORAL MAPPING AND ASSESSMENT OF SO2 LED AIR POLLUTION OVER MEGACITY DELHI, INDIA USING TROPOMI DATA
Rene	Parra	INFLUENCE OF THE STARTUP TIME FROM INITIAL CONDITIONS IN MODELING VOLCANIC ASH DISPERSION IN ECUADOR
Ville-Veikko	Paunu	UPDATED BLACK CARBON EMISSIONS ESTIMATE FROM FLARING IN RUSSIA IN 2012-2020
Edina	Simon	USEFULNESS OF TREE SPECIES AS URBAN HEALTH INDICATORS
Aditya	Vaghela	SPATIO-TEMPORAL MAPPING AND ASSESSMENT OF NO2 LED AIR POLLUTION OVER MEGACITY DELHI, INDIA USING TROPOMI DATA