

Scientific Programme of the 11th International Conference on Air Quality - Science and Application (Draft version 21/01/2018)

12-16 March 2018

Universitat Pompeu Fabra Campus de la Ciutadella, Carrer de Ramon Trias Fargas, 25-27, 08005, Barcelona,
Spain

Monday 12 March 2018

17:00 **Registration desk open at Campus Ciutadella (infront of the Auditorium)**

19:30 **Ice breaker reception at (EXHIBITION ROOM)**

Tuesday 13 March 2018

08:00 **Registration desk open at the conference venue (EXHIBITION ROOM)**

08:55 **Plenary session (AUDITORIUM - ROOM A)**

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

09:20 PUTTING PEOPLE AT THE HEART OF AIR QUALITY MANAGEMENT

Tim Chatterton 2060

09:40 FAIRMODE WG5: A NOVEL CITY PILOT APPROACH FOR IMPROVING AIR QUALITY MANAGEMENT PRACTICES

Enrico Pisoni 1882

10:00 **Tea/coffee and poster session (EXHIBITION ROOM)**

| | Air pollution sources and emissions - Source apportionment (AUDITORIUM - ROOM A) | Air quality management for policy support (ROOM B) | Air quality measurements and process studies (ROOM C) |
|-------|---|--|---|
| 10:25 | A SOURCE APPORTIONMENT ASSESSMENT OF OZONE CONCENTRATION IN PEAK SUMMER EVENTS OVER SOUTHWESTERN EUROPE | FURTHER DEVELOPMENT OF AIR QUALITY CONTROL PLANNING AND AIR QUALITY MONITORING IN ULAANBAATAR THE CAPITAL OF MONGOLIA | STUDIES OF SEMI-VOLATILE HYDROCARBONS IN DIESEL EXHAUST AND AMBIENT AIR |
| | Maria Teresa Pay 2001 | Guenter Baumbach 1924 | Roy Harrison 1787 |
| 10:50 | MULTIVARIATE STATISTICAL METHODS APPLIED ON ORGANIC MARKER SPECIES AS AN EFFECTIVE TOOL IN SOURCE IDENTIFICATION STUDIES AT A LOCAL SCALE | INVESTIGATION OF THE INFLUENCE OF CARBURETOR MOTORCYCLES REPLACEMENT BY ELECTRICALLY CHARGED MOTORCYCLES DUE TO LEZ IMPLEMENTATION ON TEHRAN AIR QUALITY | HIGH O3 & UFP EPISODES IN SPAIN: BOTTOM-UP OR UP-DOWN DOMINATED ATMOSPHERIC PROCESSES |
| | Kristina Strbova 1969 | Vahid Hosseini 1837 | Xavier Querol 2065 |
| 11:10 | POTENTIAL SOURCES OF PM10 IMPACTING THE HAUTS-DE-FRANCE REGION OVER A 5-YEAR PERIOD (2009-2013) IDENTIFIED BY RECEPTOR MODELING: INFLUENCE OF PRECIPITATION, AIR MASS ALTITUDE, LENGTH OF BACKWARD TRAJECTORIES AND THE USE OF A WEIGHTING FUNCTION | ESTABLISHMENT OF A USER FRIENDLY URBAN AIR QUALITY SCENARIO ASSESSMENT SERVICE USING COPERNICUS - CAMS DATA FOR BRATISLAVA | EVALUATION AND COMPARISON OF CONTINUOUS BC AND NOX MEASUREMENTS IN THREE SWEDISH CITIES (STOCKHOLM, GÖTEBORG AND MALMÖ) IN RELATION TO SOURCES AND TEMPORAL VARIABILITY |
| | Antoine Waked 1877 | Bino Maiheu 1932 | Mohammad Azim 2023 |
| 11:30 | ATTRIBUTION OF FINE PARTICULATE (PM2.5) POLLUTION IN INDIA TO MAJOR ANTHROPOGENIC SOURCES | CFD MODELLING OF THE IMPACT ON THE NOX REDUCTION THROUGH A PHOTOCATALYTIC COATING COVERING AN ENTIRE NEIGHBORHOOD: A HYPOTHETICAL CASE STUDY | SPATIAL DISTRIBUTION OF BLACK CARBON IN ROME: CASE STUDY FOR HIGHLY QUALITY-ASSURED MOBILE MEASUREMENTS |
| | Abhishek Upadhyay 1832 | Alberto Martilli 1816 | Honey Dawn Alas 1985 |

11:50

MODELLING THE EFFECT OF ELECTRO MOBILITY ON
THE AIR QUALITY IN HAMBURGATMOSPHERIC DEPOSITION OF TRACE ELEMENTS IN
THE VICINITY OF KARDZHALI LEAD-ZINC PLANT IN
BULGARIA BASED ON MOSS BIOMONITORING

Matthias Karl

1874

Gergana Hristozova

1887

**12:10-
13:30 Lunch at the University Restaurant****13:45 Air pollution sources and emissions
(AUDITORIUM - ROOM A)****Air quality management for policy support
(ROOM B)****Air quality measurements and process
studies (ROOM C)****13:50** GREEN BIOMASS OFFERS GREY FUTURE FOR AIR
QUALITYAIR QUALITY ASSESSMENT OF RETROFITTING SCRT
ON URBAN BUSES IN COPENHAGENTHE IMPACT OF VOLATILE ORGANIC COMPOUNDS ON
NEAR SURFACE OZONE FORMATION IN RUSSIAN
CITIES

Darius Ceburnis

2078

Steen Solvang Jensen

1972

Andrey Skorokhod

1792

14:10 THE INFLUENCE OF SHIPPING EMISSIONS ON POLLUTANT
CONCENTRATIONS IN THE BALTIC SEA REGIONSPEED LIMITATION IN METROPOLITAN AREA OF
BARCELONA: IMPACT ON AIR QUALITYTHREE DIMENSIONAL OBSERVATIONS (3DO) OF AIR
QUALITY IN STUTTGART UNDER THE GERMAN
FEDERAL MINISTRY FOR EDUCATION AND RESEARCH
(BMBF) PROJECT

Armin Aulinger

2054

Eusebio Jarauta-Bragulat

1802

Abdul Samad

2052

14:30 THE IMPACT OF EMISSIONS FROM SHIPS IN THE
GOTHENBURG AREA ON URBAN SCALE AIR QUALITY AND
HUMAN HEALTHREMOVAL OF PARTICLES ORIGINATING FROM
TRAFFIC BY VEHICLES IN MEGACITIES THROUGH
ACTIVE ON-BOARD FILTRATION UNITSVERTICAL DISTRIBUTION OF REGIONAL NEW
PARTICLE FORMATION EVENTS IN MADRID

Jana Moldanova

1997

Ralf Otterpohl

1798

Cristina Carnerero

2067

14:50 ASSESSMENT OF DISCREPANCIES BETWEEN BOTTOM-UP
AND REGIONAL EMISSION INVENTORIESTHE POTENTIAL IMPACT ON AIR QUALITY OF ENERGY
SAVING MEASURES BY CITIES OF THE COVENANT OF
MAYORS INITIATIVEVERTICAL PROFILES OF LUNG DEPOSITED SURFACE
AREA CONCENTRATION OF PARTICULATE MATTER
MEASURED WITH A DRONE IN AN URBAN STREET
CANYON

Susana Lopez-Aparicio

1830

Fabio Monforti Ferrario

1796

Heino Kuuluvainen

1976

15:10 COMPARISON OF A NEW EMISSION INVENTORY FOR THE
NORDIC COUNTRIES AND GLOBAL INVENTORIESODD-EVEN POLICY, SECONDARY AEROSOL
FORMATION AND DELHINORTH HEMISPHERE AIR QUALITY TRANSECTS TO
ASSESS LEGACY AND EMERGING SEMIVOLATILE
ORGANIC CONTAMINANTS

Ville-Veikko Paunu

1959

Neha Parkhi

2039

Nuno Ratola

2030

15:30 DEVELOPMENT OF EMISSIONS INVENTORY FOR ENERGY
PRODUCTION IN TURKEYPASSIVE CONTROL OF AIR POLLUTION EXPOSURE
THROUGH GREENING OF CITIESBLACK CARBON AND ULTRAFINE PARTICLES IN THE
PORT OF CIVITAVECCHIA (ITALY)

Ummugulsum Alyuz

2046

Prashant Kumar

1916

Gian Paolo Gobbi

2025

15:50 Tea/coffee and poster session (EXHIBITION ROOM)**16:15 Air pollution sources and emissions
(AUDITORIUM - ROOM A)****Health integrated assessment for air quality
policy support (ROOM B)****Air quality measurements and process
studies - SENSORS (ROOM C)****16:20** A TECHNOLOGICAL EMISSION INVENTORY OF PM10 AND
PM2.5 FOR MEGA CITY MUMBAI, INDIA (2015)DAMAGE COST MODEL FOR AIR POLLUTION IN
FINLANDCAN LOW-COST AIR QUALITY SENSORS HELP TO
MONITOR AIR POLLUTION IN CITIES?

Saroj Kumar Sahu

2002

Mikko Savolahti

1876

Nuria Castell

1852

16:40 AIR QUALITY AND POLLUTANT EMISSIONS IN THE
MOSCOW MEGACITYHEALTH BENEFITS OF IMPLEMENTING EXHAUST-
FREE TRANSPORTS IN MALMO MUNICIPALITY,
SOUTHERN SWEDENFIRST STAGE OF THE POLLUSCOPE PROJECT:
SELECTION AND ASSESMENT OF PORTABLE AIR
QUALITY SENSORS

Nikolai Elansky

1999

Ebba Malmqvist

1861

Baptiste Languille

1823

17:00 DECREASING TRENDS IN DIRECT EMITTED NO2/NOX
RATIO IN DENMARK, GERMANY, SWEDEN AND UK -
IMPLICATIONS FOR A NECESSARY UPDATE OF EUROPEAN
EMISSION MODELSENVIRONMENTAL AND HEALTH IMPACTS FROM
SHIPPING EMISSIONS: QUANTIFYING BENEFITS FROM
A POTENTIAL EMISSION CONTROL AREA (ECA) IN THE
MARMARA SEA (TURKEY)CO2 MONITORING WITH LOW-COST SENSORS:
PERFORMANCE, CALIBRATION AND CARBOSENSE
NETWORK INTEGRATION

Matthias Ketzl

2047

Mar Viana

1866

Michael Mueller

1889

17:20 CONCENTRATIONS AND EMISSION FACTORS OF TRAFFIC ORIGINATED NANOCLUSTER AEROSOLS

Topi Ronkko

2012

HEALTH AND ECONOMIC BENEFITS OF REDUCTION IN AIR POLLUTION FROM AGRICULTURE

Despina Giannadaki

1772

LASER BASED ALL-IN-ONE ENVIRONMENTAL GAS SENSOR

Lukas Emmenegger

1964

17:40 A COMBINED EMISSION MODELLING APPROACH TO ESTIMATE ROAD TRAFFIC EXHAUST EMISSIONS AT URBAN SCALE

Daniela Dias

1892

PERFORMANCE TEST RESULTS FOR A COMPACT AIR QUALITY SENSOR

Hannamari Jaakkola

2009

18:00 Close of sessions

19:00 Visit to the permanent exhibition at the Design Museum of Barcelona (DHUB)

19:45 Welcome reception at the Design Museum of Barcelona (DHUB)

Wednesday 14 March 2018

08:30 Registration desk open at Campus Ciutadella (infront of the Auditorium)

08:55 Plenary session(AUDITORIUM - ROOM A)

09:00 MODELLING OF THE URBAN, REGIONAL AND GLOBAL AIR QUALITY ON A HIGH RESOLUTION FOR SEVERAL DECADES, FOR HEALTH IMPACT ASSESSMENTS

Jaakko Kukkonen 1958

09:20 EFFECTS OF INTERNATIONAL SHIPPING ON EUROPEAN AIR POLLUTION LEVELS

Jan Eiof Jonson 1895

09:40 VERTICAL AND HORIZONTAL EXPERIMENTAL DISPERSION OF DIESEL-RELATED POLLUTANTS WITHIN URBAN BLOCKS

Fulvio Amato 2064

10:00 Tea/coffee and poster session (EXHIBITION ROOM))

Air pollution sources and emissions (AUDITORIUM - ROOM A)

10:30 NEW OPEN SOURCE EMISSION PROCESSOR FOR AIR QUALITY MODELS

Nina Benesova 2020

10:50 OLYMPUS: AN URBAN EMISSIONS MODEL CENTERED ON INDIVIDUAL

Arthur Elessa 2029

11:10 EMISSION MODELS FOR FUGITIVE PARTICULATE MATTER IN HOT-DRY ENVIRONMENTS

Hala Hassan 2018

11:30 DYNAMICAL EMISSION MODELLING AND ITS EFFECT OF AIR POLLUTION SIMULATIONS WITH LOTOS-EUROS

Astrid Manders 1860

11:50 METHOD FOR DEVELOPMENT OF HIGH-RESOLUTION EMISSIONS FROM RESIDENTIAL WOOD COMBUSTION

Henrik Grythe 1833

12:10

Health impacts from air pollution exposure (ROOM B)

SIXTEEN POLYCYCLIC AROMATIC HYDROCARBONS. DO THEY REPRESENT PAH AIR TOXICITY?

Vera Samburova 1801

PARTICULATE MATTER AND MARKERS OF GLYCEMIC CONTROL AND INSULIN RESISTANCE IN TYPE 2 DIABETIC PATIENTS: RESULT FROM WELLCOME TRUST GENETIC STUDY

Morteza Abdullatif Khafaie 1774

OZONE AND VEHICLE EXHAUST PM EXPOSURE AND ITS ASSOCIATION WITH ADVERSE PREGNANCY OUTCOMES

Christer Johansson 1891

IMPROVING TRAFFIC-RELATED EXPOSURE ASSESSMENT IN HUMAN HEALTH RISK STUDIES

Oksana Ananyeva 1931

BRONCHIAL AND VASCULAR EFFECTS INDUCED BY DIFFERENT DIESEL PARTICLES EMISSION SOURCES

Rossella Bengalli 1909

Air quality measurements and process studies (ROOM C)

MODELING THE FORMATION OF TRADITIONAL AND NON-TRADITIONAL SECONDARY ORGANIC AEROSOLS FROM IN-USE, ON-ROAD GASOLINE AND DIESEL VEHICLES EXHAUST

Sepideh Esmaeilirad 1781

POLLUTION SOURCES AND ATMOSPHERIC PROCESSES IN BACKGROUND MILAN BY 1-HOUR TIME RESOLUTION DATA OF PM2.5 COMPOSITION AND GASEOUS PRECURSORS

Alessandro Bigi 2041

BIOMASS BURNING IMPACT ON AIR QUALITY IN DIFFERENT SPANISH LOCATIONS USING ACSM

Maria Cruz Minguillon 1910

CHARACTERIZING AIR QUALITY IN DIFFERENT URBAN SITES: TUNNEL AND SCHOOL

Milagros Rodenas 2058

SPATIAL AND TEMPORAL VARIABILITY OF ULTRA-FINE PARTICLES TRANSVERSE TO A MAIN ROAD IN BERLIN, GERMANY

Sabine Fritz 1949

ESTIMATE OF NITROUS ACID EMISSIONS FROM TRAFFIC IN A UK ROAD TUNNEL

Louisa Kramer 1979

12:10-13:30 Lunch at the University Restaurant

| Air pollution sources and emissions (AUDITORIUM - ROOM A) | | Health impacts from air pollution exposure (ROOM B) | | Indoor air quality (ROOM C) | |
|---|---|---|---|-----------------------------|---|
| 13:45 | IMPACTS ON AIR QUALITY DUE TO AVIATION EMISSIONS | | HEALTH RISK ASSESSMENT AND SOURCE APPORTIONMENT OF AMBIENT VOLATILE ORGANIC COMPOUNDS IN PRIMARY SCHOOLS IN TAOYUAN, NORTH TAIWAN | | INVESTIGATION OF THE SUBMICRON PARTICLE BUDGET IN AN UNOCCUPIED BUILDING |
| | Amela Jericevic 2061 | | Dika Widiana 1788 | | Evdokia Stratigou 1817 |
| 14:10 | CITY BUS EMISSIONS IN REAL OPERATION | | THE EFFECTS OF PHOTOCHEMICAL AIR POLLUTION ON RESPIRATORY HEALTH IN ABUJA NIGERIA | | SEASONAL CONTRASTS OF INDOOR EXPOSURE TO PM2.5 IN URBAN & RURAL BEIJING |
| | Anssi Jarvinen 1995 | | Christabel Ihedike 1836 | | Hanbin Zhang 2070 |
| 14:30 | ASSESSMENT OF BLACK CARBON CONCENTRATIONS AND EMISSION SOURCES IN CURITIBA, BRAZIL | | THE INTERACTIVE EFFECT OF TEMPERATURE AND AIR POLLUTION ON MORTALITY: A TIME SERIES ANALYSIS IN 25 CITIES | | PARTICULATE MATTER MEASUREMENTS IN AN UNDERGROUND RAILWAY STATION IN NORWAY |
| | Lars Gidhagen 1849 | | Matteo Scortichini 1896 | | Claudia Hak 1962 |
| 14:50 | CONTROLLING THE EMISSIONS OF AND POPULATION EXPOSURE TO PRIMARY PM2.5 FROM RESIDENTIAL WOOD COMBUSTION AND VEHICULAR NON-EXHAUST SOURCES IN 2030 IN FINLAND | | TRENDS IN AIR POLLUTANTS AND HEALTH IMPACTS IN THREE SWEDISH CITIES OVER THE PAST THREE DECADES | | PM CONCENTRATIONS IN RAILROAD TUNNELS IN STOCKHOLM AND IN DRIVER CABIN OF COMMUTER TRAINS |
| | Niko Karvosenoja 1952 | | Henrik Olstrup 1853 | | Sanna Silvergren 2007 |
| 15:10 | AN ATTEMPT OF VALIDATION OF INDUSTRIAL POLLUTANT RELEASE BOTTOM UP INVENTORIES AT SILESIA, POLAND | | ASSOCIATION BETWEEN RESIDENTIAL WOOD BURNING AND DEMENTIA INCIDENCE IN A LONGITUDINAL STUDY IN NORTHERN SWEDEN | | HOUSEHOLD AIR POLLUTION AND RISK OF NCDS |
| | Jakub Bartyzel 1984 | | Anna Oudin 1946 | | Ravindra Khaiwal 1994 |
| 15:30 | EMISSION OF PM10 AND COARSE PARTICLES FROM SILENT ASPHALT | | THE "CARBONACEOUS AEROSOL IN ROME AND ENVIRONS (CARE)" EXPERIMENT | | AIR QUALITY OF KINDERGARTEN AND PRIMARY SCHOOLS IN DAR ES SALAAM TANZANIA |
| | Michael Norman 1886 | | Gian Paolo Gobbi 2043 | | Albert Mmari 2026 |

Tea/coffee and poster session (EXHIBITION ROOM)

| Air pollution sources and emissions (AUDITORIUM - ROOM A) | | Health impacts from air pollution exposure (ROOM B) | | Air quality forecasting (ROOM C) | |
|---|---|---|--|----------------------------------|---|
| 16:15 | SOURCE APPORTIONMENT OF PM2.5 IN BEIJING DURING THE APHH-BEIJING CAMPAIGN | | ESTIMATION OF POPULATION EXPOSURES TO MAIN AIR POLLUTANTS IN FINLAND: ADJUSTMENT OF CHEMICAL TRANSPORT MODEL RESULTS BASED ON MONITORING | | COMPOSITION AND ORIGIN OF FORECASTED SURFACE PM10 OVER EUROPEAN CAPITALS DURING A POLLUTED EVENT IN DECEMBER 2016 |
| | Mei Zheng 2085 | | Yuliia Palamarchuk 2014 | | Matthieu Pommier 1820 |
| 16:40 | MONITORING LONG-TERM AND LARGE SCALE DEPOSITION OF AIR POLLUTANTS BASED ON MOSS ANALYSIS | | EXPOSURE OF CIVIL WORKERS TO AIRBORNE PARTICLES AND THEIR TRACE ELEMENTAL COMPOSITION | | ATMOSPHERIC CHEMISTRY WITH THE ONLINE MULTISCALE NMMB-MONARCH V1.0 MODEL: GLOBAL-REGIONAL EVALUATIONS AND DATA ASSIMILATION |
| | Marina Frontasyeva 1967 | | Leila Martins 1799 | | Oriol Jorba 1917 |
| 17:00 | MODELING EMISSIONS FOR 3D ATMOSPHERIC CHEMISTRY TRANSPORT MODELS | | PARTICULATE EMISSIONS FROM THE COMBUSTION OF PELLET, CHARCOAL AND WOOD INDUCE DIFFERENT CYTOTOXIC RESPONSES IN A549 CELLS | | EVALUATION OF THE COPERNICUS ATMOSPHERE MONITORING (CAMS) REANALYSIS WITH RESPECT TO OZONE AND CARBON MONOXIDE |
| | Volker Matthias 1987 | | Sara Marchetti 1902 | | Annette Wagner 1811 |
| 17:20 | FILLING DATA GAPS FOR A BETTER UNDERSTANDING OF IMPACT OF AIR POLLUTION ASSOCIATED WITH RURAL RESIDENTIAL ENERGY USE IN CHINA | | PERSONAL AIR POLLUTION EXPOSURE IN RURAL AND URBAN BEIJING | | AEROSOL PROFILE EVALUATION WITH IN THE COPERNICUS ATMOSPHERE MONITORING SERVICE (CAMS) |

| | | | | | | |
|--------------|---|------|--|------|---|------|
| | Shu Tao | 2059 | Anika Krause | 2069 | Harald Flentje | 1922 |
| 17:40 | POPULATION EXPOSURE TO SHIP EMISSIONS IN HARBOUR CITIES OF THE BALTIC SEA | | ASSESSING PERSONAL EXPOSURE TO AIR POLLUTANTS USING AGENT BASED MODELLING AND WEARABLE SENSORS | | BIAS CORRECTION OF MODERATE SCALE AIR QUALITY MODEL AS A PRAGMATIC TOOL FOR OPERATIONAL FORECAST AND HEALTH IMPACT ASSESSMENT | |
| | Matthias Karl | 1872 | Denis Sarigiannis | 2019 | Gabriele Curci | 1805 |
| | CHARACTERIZATION OF GASES AND AEROSOLS IN FLOWBACK EMISSIONS AT HYDRAULIC FRACTURING OPERATIONS IN THE IN ALBERTA | | | | MOBILE APP FOR AIR QUALITY FORECASTING IN GUADALAJARA, MEXICO | |
| 18:00 | Mandy Olsgard-Dumanski | 1767 | | | Carlos Gonzalez-Figueredo | 1911 |
| 18:20 | Close of sessions | | | | | |
| | Free evening | | | | | |

Thursday 15 March 2018

08:30 Registration desk open at Campus Ciutadella (infront of the Auditorium)

08:55 Plenary session(AUDITORIUM - ROOM A)

09:00 DECREASING CLIMATE CHANGE IMPACT ONE MOLECULE AT THE TIME

Ole John Nielsen 1783

09:20 IMPACT OF URBAN MORPHOLOGY ON AIR QUALITY: SPRAWL, COMPACT, CORRIDOR AND EDGE CITIES

Arthur Elessa Etuman 1920

09:40 A MULTI-MODEL OPERATIONAL AIR POLLUTION FORECASTING SYSTEM FOR CHINA

Guy Brasseur 2006

10:00 Tea/coffee and poster session (EXHIBITION ROOM)

10:25 Special session - Atmospheric-Climate Interactions and Impacts (AUDITORIUM - ROOM A)

10:30 ENVIRO-HIRLAM DOWNSCALING IN RESEARCH AND OPERATIONAL APPLICATIONS FOR PEEX

Alexander Mahura 1827

10:50 COMBINING CLIMATE MODEL SIMULATIONS AND OBSERVATIONS TO UNDERSTAND AEROSOL EFFECTS ON ARCTIC CLIMATE

Tanja Dallafior 1991

11:10 POLAR ATMOSPHERE-ICE-OCEAN INTERACTIONS: IMPACT ON CLIMATE AND ECOLOGY

Manuel DallOsto 2076

11:30 USING PRECIPITATION RECYCLING RATIO TO UNDERSTAND THE RECENT CHANGES IN WATER ISOTOPES OVER THE AMAZON

Kanhu Charan Pattnayak 2075

11:50 IMPACT OF REGIONAL CIRCULATION ON METEOROLOGY AND EXTREME EVENTS OVER ASIA FOR PRESENT AND FUTURE CLIMATE CONDITIONS

Pushp Raj Tiwari 2077

Meteorological processes and interactions (ROOM B)

TURBULENCE AND DIFFUSION IN ATMOSPHERIC SURFACE LAYER: NEW KNOWLEDGE TOWARDS ADVANCED TOOLS FOR MODELLING AIR POLLUTION

Sergej Zilitinkevich 1839

SENSITIVITY STUDY OF THE AIR QUALITY TO URBAN HEAT ISLAND MITIGATION STRATEGIES DURING A HEAT WAVE EVENT IN MILAN (ITALY) USING WRF-CHIMERE AT HIGH RESOLUTION

Serena Falasca 1864

STREET-LEVEL ASSESSMENT OF URBAN SCENARIOS ON THERMAL COMFORT AND AIR QUALITY BY THE MEANS OF NEWLY DEVELOPED URBAN SURFACE MODEL FOR LES MODEL PALM

Jaroslav Resler 2027

INFLUENCE OF SYNOPTIC CONDITIONS ON AIR POLLUTION IN MOSCOW

Mikhail Lokoshchenko 2008

ON THE COMPARISON OF URBAN ENVIRONMENT EFFECTS PARAMETERIZATION

Tomas Halenka 1939

Development, application and evaluation of air quality related models (ROOM C)

LANGRANGIAN MODELLING EMBEDDED IN RANS CFD FOR AIR PUFF RELEASES IN URBAN ENVIRONMENTS

John Bartzis 1982

PM10 TRENDS IN SWITZERLAND USING RANDOM FOREST MODELS

Stuart Grange 1859

DEMONSTRATION OF REAL-TIME AIR QUALITY MODELLING SYSTEMS - HELSINKI AND NANJING TESTBEDS

Lasse Johansson 1871

COMBINING AIR QUALITY MODELLING DATA AND SENSOR MEASUREMENTS IN AN INTERNET OF THINGS METHODOLOGY TO MITIGATE AIR POLLUTION IN THE BALKAN REGION

Nicolas Moussiopoulos 2084

DOWNSCALING OF THE EMEP MODEL USING UEMEP: WHERE SCALES MEET

Bruce Rolstad Denby 1824

12:10-13:30 Lunch at the University Restaurant

**13:45 Special session - Atmospheric-Climat
Interactions and Impacts (AUDITORIUM -
ROOM A)**

13:50 DESCRIBING AIR QUALITY-CLIMATE INTERACTIONS
WITHIN THE REPAIR PROJECT

Laura Palacios-Pena 2031

14:10 RELATION BETWEEN VISIBILITY AND FREQUENCY OF
OCCURRENCE OF SURFACE PRESSURE SYSTEMS
AND THEIR EVALUATION IN FUTURE IN AN URBAN
AREA

Mozhdeh Hafezi 1793

14:30 THE IMPACT OF CARBON MITIGATION MEASURES ON
FUTURE AIR QUALITY

Steven Turnock 1834

14:50 FINE PARTICLES IMPACTS ON HEALTH-CASES AND
COSTS ON EUROPE UNDER CLIMATE CHANGE
SCENARIOS

Patricia Tarin-Carrasco 1933

15:10 INFLUENCE OF ATMOSPHERIC PRECIPITATION ON
AIR COMPOSITION

Mikhail Lokoshchenko 1981

15:30

15:50 Tea/coffee and poster session (EXHIBITION ROOM)

**16:15 Remote sensing and satellite observations
(AUDITORIUM - ROOM A)**

16:20 SATELLITE-BASED MULTI-SENSOR ANALYSIS OF NO₂
TRENDS IN MEGACITIES

Thilo Erbetseder 2024

16:40 WIDESPREAD CHANGES IN UK AIR QUALITY
OBSERVED SPACE

Richard Pope 1970

17:00 INTERCOMPARISON OF FOUR AIRBORNE IMAGING
DOAS SYSTEMS FOR URBAN NO₂ MAPPING - THE
AROMAPEX CAMPAIGN

Frederik Tack 1936

17:20 VARIATIONS AND TEMPORAL TENDENCIES IN
BACKGROUND AND URBAN CO AND CH₄

Vadim Rakitin 1797

**Meteorological processes and interactions
(ROOM B)**

INFLUENCE OF THE MIXING LAYER HEIGHT ON
URBAN AIR QUALITY OVER BARCELONA

Marco Pandolfi 2072

PARTICULATE MATTER FORECASTING BASED ON
METEOROLOGICAL CONDITIONS

Panagiota Syropoulou 1865

A MULTI-MODEL COMPARISON OF METEOROLOGICAL
DRIVERS OF SURFACE OZONE OVER EUROPE - TO
CONFIRM

Noelia Otero 1842

AIR POLLUTION TRANSPORT FROM THE PO VALLEY
TO THE WESTERN ALPS

Henri Diemos 1918

ATMOSPHERIC VENTILATION AND PARTICULATE
MATTER CONNECTIONS IN THE ATACAMA DESERT,
CHILE

Damian Oyarzun 2021

METEOROLOGICAL CONDITIONS CLASSIFICATION:
APPLICATION FOR EVALUATION OF BIOMASS
BURNING EMISSION ABATEMENT ON AIR QUALITY IN
ARVE VALLEY (FRANCE)

Julie Allard 1856

**Meteorological processes and interactions
(ROOM B)**

PM₁₀ EXCEEDANCES AND CEILOMETER
OBSERVATIONS DUE TO A PROLONGED SAHARAN
DUST EPISODE OVER THE EASTERN ALPS

Martin Piringer 1897

COMPARABILITY OF MOBILE SENSOR BOUNDARY
LAYER MEASUREMENTS WITH LAGRANGIAN
PARTICLE MODELLING

Sandro Finardi 1869

HOW DO TEMPERATURE INVERSIONS CONTROL
AEROSOL VERTICAL DISTRIBUTION IN THE ARCTIC IN
WINTER AND SPRING?

Manu Anna Thomas 1903

STUDY AND ANALYSIS OF THE CONCENTRATIONS OF
TROPOSPHERIC OZONE IN THE CITY OF MEDELLIN
AND THE ABURRA-VALLEY AND THEIR RELATIONSHIP
WITH ATMOSPHERIC PHENOMENA

Enrique Posada 1828

**Development, application and evaluation of
air quality related models (ROOM C)**

CONTRIBUTION OF LAND TRANSPORT EMISSIONS TO
GROUND LEVEL OZONE, CALCULATED BY MEANS OF
A MULTIPLY ONLINE NESTED MODEL

Mariano Mertens 1822

DATA ASSIMILATION FOR ATMOSPHERIC CHEMISTRY
TRANSPORT AND TRANSFORMATION MODELS WITH
SPLITTING

Alexey Penenko 2033

VALIDATION OF THE AIRGIS EXPOSURE MODELLING
SYSTEM AT DIFFERENT TIME SCALES

Jibran Khan 2042

MODEL VALIDATION ACTIVITIES IN THE FRAME OF
THE COPERNICUS ATMOSPHERE MONITORING
SERVICE

John Douros 1971

NUMERICAL SIMULATION OF POLLUTANT
DISPERSION ON BUILT-UP ENVIRONMENTAL UNDER
CHANGES OF ATMOSPHERIC STABILITY

Mohamed F. Yassin 1779

MACHINE LEARNING EXPOSURE MODEL
PREDICTIONS FOR GROUND-LEVEL OZONE DURING
WILDFIRE EVENTS: RESULTS FOR A MAJOR WILDFIRE
IN CALIFORNIA

Michael Jerrett 2088

**Development, application and evaluation of
air quality related models (ROOM C)**

PM₁₀ AND BLACK CARBON VERTICAL PROFILES IN
THREE ITALIAN VALLEYS: ANALYSIS OF
MEASUREMENTS AND HIGH RESOLUTION
MODELLING.

Ilaria Gandolfi 1919

ASSESSMENT OF AEROSOL OPTICAL PROPERTIES
USING WRF/CHEM OVER INDIA

Preeti Gunwani 2036

SENSITIVITY OF PBL PARAMETERIZATIONS ON PM₁₀
AND OZONE USING CHEMICAL TRANSPORT MODEL
WRF-CHEM OVER AN URBAN AIRSHED

Medhavi Gupta 2045

CFD MODELLING OF THE IMPACT OF HEDGES ON
POLLUTANT DISPERSION IN AN ISOLATED STREET
CANYON

Riccardo Buccolieri 2015

17:40

NEIGHBOURHOOD-SCALE DISPERSION OF
ULTRAFINE PARTICLES IN LONDON: A WRF LARGE
EDDY SIMULATION

Jian Zhong

1847

18:00 Close of sessions

19:30 Conference banquet

Friday 16 March 2018

08:30 Registration desk open at Campus Ciutadella (infront of the Auditorium)

08:55 Plenary session(AUDITORIUM - ROOM)

09:00 IMPACT OF AFRICAN DUST ON AIR QUALITY OF SPAIN 2001-2016. IS IT ONLY DUST THAT MATTERS?

Noemí Pérez 2066

09:20 HIGH RESOLUTION MODELLING AND INTEGRATED HEALTH IMPACT ASSESSMENT OF AIR POLLUTION - THE NORDICWELFAIR PROJECT

Jorgen Brandt 1960

09:40 ARE METHODS TO PREDICT FUTURE AIR QUALITY CONCENTRATIONS RELIABLE ENOUGH TO MAKE POLICY DECISIONS?

Bernard Fisher 1838

10:00 Tea/coffee and poster session (EXHIBITION ROOM)

10:25 Special session - Air Quality in Global Cities (AUDITORIUM - ROOM A)

10:30 THE ROLE OF METEOROLOGICAL CONDITIONS AND POLLUTION CONTROL STRATEGIES IN REDUCING AIR POLLUTION IN BEIJING DURING APEC 2014 AND PARADE 2015

Tong Zhu 2086

10:50 RISK INDEX DUE TO CONTINGENCIES OF POOR AIR QUALITY IN GUADALAJARA, MEXICO

Carlos Gonzalez-Figueroa 2017

11:10 IN-VEHICLE PARTICULATE MATTER AIR POLLUTION EXPOSURE IN BIRMINGHAM, UK

Vasileios Matthaios 1990

11:30 SEASONAL AND SPATIAL COMPARISON OF AMBIENT AIR POLLUTION IN RURAL AND URBAN BEIJING

Yiqun Han 2071

11:50 LEVELS AND MAJOR SOURCES OF PM10 AND PM2.5 IN ISTANBUL METROPOLITAN AREA

Ufuk Malak 2074

12:10

Special Session- Dust and its impacts on air quality and health (ROOM B)

TECHNOGENIC DUST STORMS: ANALYSIS OF DUST EMISSION CONDITIONS AND NUMERICAL MODELING OF ATMOSPHERIC TRANSPORT PROCESSES AND EFFICIENCY OF PREVENTING MEASURES

Alexander Baklanov 2049

DUST RELEASE FROM DESERTS AROUND THE GLOBE, AN ATTEMPT OF A UNIFIED SOURCE PARAMETERIZATION

Mikhail Sofiev 1961

EXPLORING A DUST EPISODE WITH CHIMERE MODEL

Alexandra Monteiro 1954

DUST AEROSOL-RADIATION-CLOUDS-PRECIPIATION INTERACTIONS OVER THE MEDITERRANEAN IN THE REPAIR PROJECT

Pedro Jimenez-Guerrero 1951

SUBMICRON VOLCANIC DUST FROM THE LARGEST DESERT IN EUROPE AND ARCTIC

Pavla Dagsson-Waldhauserova 2073

IDENTIFICATION OF DUST EVENTS BY SYNERGISTIC OBSERVATIONS

Darius Ceburnis 2079

Development, evaluation and application of air quality models (ROOM C)

IMPROVED TOOLS FOR ASSESSING NO2 EXPOSURE IN EUROPE

Stijn Janssen 2016

ESTABLISHING NITROGEN DEPOSITION OVER GERMANY USING MODELLING AND OBSERVATIONS

Carlijn Hendriks 1826

TREND ASSESSMENT AND CLUSTERING OF TROPOSPHERIC OZONE CONCENTRATIONS IN EUROPE BASED ON TIME SCALE DECOMPOSITION

Eirini Boleti 1977

INFLUENCE OF GLOBAL METEOROLOGICAL NCEP DATA IN MODELING THE DISPERSION AND SEDIMENTATION OF VOLCANIC ASH AT MESOSCALE RANGE IN THE ECUADORIAN ANDEAN REGION

Rene Parra 1784

AIR QUALITY IMPACTS FOR 2030 BASED ON EMISSION PROJECTION SCENARIOS - A MODELLING APPROACH

Joana Ferreira 2028

POLLUTANTS ATMOSPHERIC DISPERSION STUDY WITH CALPUFF IN HAVANA

Anel Hernandez-Garces 1773

12:10-13:30 Lunch at the University Restaurant

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| 13:45 | Special session - Air Quality in Global Cities (AUDITORIUM - ROOM A) | | | |
| 13:50 | COMPOSITION AND SOURCES OF FINE PARTICLES DURING WINTER HAZE EVENTS IN BEIJING | Zongbo Shi | 2068 | |
| 14:10 | TEMPORAL TRENDS OF CARBONACEOUS SPECIES IN PM _{2.5} DURING 2013-2016 IN DELHI, INDIA | Sudhir Kumar Sharma | 1942 | |
| 14:30 | OZONE IN CHINESE MEGACITIES: IDENTIFICATION OF KEY METEOROLOGICAL VARIABLES USING GENERALIZED ADDITIVE MODELING | Daniel Jaffe | 1929 | |
| 14:50 | AIR QUALITY MANAGEMENT IN MEXICO CITY: ASSESSING THE IMPACT OF SHORT-TERM MEASURES ON OZONE CONCENTRATIONS | Marc Guevara | 1873 | |
| 15:10 | CALIOPE-URBAN: COUPLING R-LINE WITH CMAQ FOR URBAN STREET-SCALE AIR QUALITY FORECASTS OVER BARCELONA | Jaime Benavides | 1914 | |
| 15:30 | SEASONAL EFFECT OF METEOROLOGICAL PARAMETERS ON PARTICULATE MATTER (PM) CONCENTRATION IN THE AIR OF DHAKA CITY | Nafisa Islam | 1846 | |
| 15:50 | Tea/coffee and poster session (EXHIBITION ROOM) | | | |
| 16:15 | Plenary session (AUDITORIUM - ROOM A) | | | |
| | Future direction of air quality research | | | |
| | Chairs: | | | |
| 17:15 | Close of conference | | | |
| | Special Session- Characterisation and Monitoring of air pollutants (ROOM B) | | | |
| | CHEMICAL COMPOSITION OF ROAD DUST AS INDICATOR OF ENVIRONMENT STATE IN MOSCOW | Nikolay Kasimov | 1885 | |
| | NEW ONLINE METHOD AND INSTRUMENTATION TO MEASURE EQUIVALENT ORGANIC AND ELEMENTAL CARBON CONCENTRATIONS | Martin Rigler | 1829 | |
| | DETERMINATION OF AIR QUALITY FROM MARINE EMISSIONS ON A NEW WATERWAY IN ISTANBUL, TURKEY | Gizem Tuna Tuygun | 2005 | |
| | MEASUREMENT OF AMBIENT OZONE (O ₃) LEVELS, CORRELATION WITH THE NO _x LEVELS AND THE DEVELOPMENT OF THE MONITORING NETWORK FOR O ₃ | Olena Turos | 1875 | |
| | To confirm | | | |
| | | | 1986 | |
| | To confirm | | | |
| | | | 1806 | |
| | Local Air Quality and Impacts Studies (ROOM C) | | | |
| | SMARTAQNET - HIGH-RESOLUTION MONITORING OF URBAN AIR QUALITY | Klaus Schaefer | 1785 | |
| | INFLUENCE OF TRAFFIC REDIRECTION IN SENSITIVE AREA/CITY | Miha Markelj | 1843 | |
| | PROBE DATA FOR THE ESTIMATION OF POLLUTION FROM ROAD TRANSPORT - THE CASE OF THESSALONIKI | Josep Maria Salanova Grau | 1791 | |
| | MULTISCALE AIR QUALITY IMPACT FROM POWER PLANTS IN CITIES | Fanny Velay-Lasry | 1818 | |
| | CFD MODELING OF VEGETATION BARRIERS TO IMPROVE AIR QUALITY | Alberto Martilli | 1901 | |
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Poster sessions (Tuesday 13 to Friday 16 March 2018)

Session number Session title

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| 1 | Air pollution sources and emissions - Source apportionment |
| 2 | Air quality management for policy support |
| 3 | Air quality measurements and process studies |
| 4 | Air pollution sources and emissions |
| 5 | Health integrated assessment for air quality policy support |
| 6 | Health impacts from air pollution exposure |
| 7 | Indoor air quality |
| 8 | Air quality forecasting |
| 9 | Atmospheric-Climate Interactions and Impacts |
| 10 | Meteorological processes and interactions |
| 11 | Development, application and evaluation of air quality related models |
| 12 | Remote sensing and satellite observations |
| 13 | Dust and its impacts on air quality and health |
| 14 | Air Quality in Global Cities |
| 15 | Air quality sensors |

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| P001 | SOURCE APPORTIONMENT OF FINE AND COARSE PARTICLES AT TRAFFIC AND URBAN BACKGROUND LOCATIONS IN ATHENS, GREECE | Georgios Grivas | 1858 | 1 |
| P002 | FOSSIL FREE VEHICLE FLEET IN STOCKHOLM - IMPORTANCE OF AIR QUALITY AND HEALTH | Jennie Hurkmans | 1998 | 2 |
| P003 | EFFECT OF AIR POLLUTION ON SUSTAINABLE PRODUCTION AND CONSUMPTION IN AGRICULTURE SECTOR OF PAKISTAN | Muhammad Nauman Ahmad | 1777 | 2 |
| P004 | DIFFERENCES BETWEEN MEASUREMENTS INDOOR/OUTDOOR USING BIO AND FOSSIL FUELS IN SANTIAGO OF CHILE. AN INTERVENTION STUDY | Yeanice Vasquez | 1809 | 2 |
| P005 | DETERMINATION OF VOCs IN AIR FOR ASSESEMENT OF ODOUR EPISODES IN THE CZECH-SAXON BORDER REGION-PROJECT ODCOM | Ondrej Reznicek | 1955 | 2 |
| P006 | CHARACTERIZATION OF THE NOx DEPOLUTING EFFECT OF PHOTOCATALYTIC MATERIALS IN A MEDIUM-SCALE TUNNEL REACTOR | Manuel Pujadas | 1907 | 2 |
| P007 | STUDY OF THE EFFECTS ON AIRBORNE AND LIXIVIATES DUE TO THE WEAR OF A PHOTOCATALYTIC PRODUCT APPLIED OUTDOORS | Lourdes Nunez | 1904 | 2 |
| P008 | AIR QUALITY TRENDS IN A COASTAL CITY, SANTA CRUZ DE TENERIFE | Celia Milford | 2032 | 3 |
| P009 | A NEW SAMPLER FOR EVALUATING THE SPATIAL VARIABILITY OF PM COMPONENTS: VALIDATION AND FIELD APPLICATION | Lorenzo Massimi | 1921 | 3 |
| P010 | SPATIO-TEMPORAL EVALUATION OF SO2 COLUMN DENSITIES OVER PAKISTAN USING OMI DATA (2004-2016) | | | |

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| P011 | Zunaira Jabeen | 1975 | 3 | RETRIEVAL OF AEROSOL VERTICAL PROFILES OVER ATHENS USING MAX-DOAS MEASUREMENTS |
| P012 | Myrto Gratsea | 1819 | 3 | IMPACT OF SOLAR RADIATION AND EXISTING AEROSOL ON THE FORMATION OF SECONDARY PARTICLES IN A LARGE CITY |
| P013 | Ernesto Gramsch | 1810 | 3 | CONTINUOUS ATMOSPHERIC FORMALDEHYDE MEASUREMENT IN A RURAL BACKGROUND AREA IN NORTHERN IBERIAN PENINSULA |
| P014 | Maite de Blas | 1930 | 3 | EXPOSURE TO PARTICLES AND THEIR ELEMENTAL COMPOSITION DURING COMMUTE IN CURITIBA, BRAZIL |
| P015 | Suzana Curti | 2010 | 3 | ATMOSPHERIC DEPOSITION OF TRACE ELEMENTS BIOMONITORING STUDY AT THE TERRITORY OF THE REPUBLIC OF BELARUS |
| P016 | Yulia Aleksiayenak | 1862 | 3 | LONG TERM MEASUREMENTS OF AEROSOL IONIC COMPOSITION OVER ATHENS GREECE COMPARISON AND CORRELATION BETWEEN THE WIDER URBAN AREA OF ATHENS AND THE REMOTE BACKGROUND REGION C |
| P017 | Pavlos Zampas | 1992 | 3 | PARTICULATE MATTERS (PMS) AND CARBON MONOXIDE (CO) AT AN URBAN SITE OF INDIA: ROLE OF EMISSIONS, METEOROLOGY AND LONG-RANGE TRANSPORT |
| P018 | Ravi Yadav | 1996 | 3 | TEST RESULTS OF LOW COST SENSORS FOR PARTICULATE MATTER AND GASES FOR THE USE IN OUT DOOR AIR QUALITY |
| P019 | Ulrich Vogt | 2053 | 3 | IMPLEMENTATION OF LOW-COST, SMALL SENSORS FOR URBAN AIR POLLUTION MEASUREMENTS ON STATIONARY AND MOBILE PLATFORMS |
| P020 | Guillermo Villena | 1989 | 3 | WINTERTIME CHEMICAL CHARACTERIZATION OF AMBIENT AIR AND SOURCE IDENTIFICATION AT URBAN AND RURAL SITES IN INDO-GANGETIC PLAIN |
| P021 | Manisha Mishra | 1983 | 3 | URBAN MOBILE INSTRUMENTS FOR ENVIRONMENTAL MONITORING URBMOBI 3.0 |
| P022 | Janani Venkatraman Jagatha | 2011 | 3 | OZONE POLLUTION STUDIES FOR CALABAR, NIGERIA |
| P023 | Sunday Udo | 1794 | 3 | SUBMICRON AEROSOL SPECIATION IN SANTIAGO, CHILE |
| P024 | Matias Tagle | 1938 | 3 | URBAN NANOPARTICLES SIZE DISTRIBUTIONS IN THE METROPOLITAN REGION OF PORTO ALEGRE, BRAZIL |
| P025 | Elba Teixeira | 1986 | 3 | EVALUATING THE OPTIMAL CONFIGURATION OF THE AIR QUALITY MONITORING NETWORK FOR TWO COMBINED-CYCLE NATURAL GAS (CCNG) PLANTS OF SIMILAR CHARACTERISTICS |
| P026 | Ana Alvarez | 1806 | 3 | SPATIAL CHEMICAL CHARACTERIZATION OF PM _{2.5} AND PM ₁₀ AT SEVEN CHILEAN SITES |
| P027 | Felipe Reyes | 1807 | 3 | FEASIBILITY STUDY OF PHOTOCATALYTIC MATERIALS TO IMPROVE URBAN AIR QUALITY |
| P028 | Magdalena Palacios | 1905 | 3 | OXIDATIVE POTENTIAL IN PM FIELD SAMPLES |
| P029 | Giulia Simonetti | 1908 | 3 | PERIODIC MONITORING OF ATMOSPHERIC FORMALDEHYDE AROUND THE MEGA CITIES OF LAHORE AND MULTAN BY USING CAR MAX |
| P030 | Asadullah Shoaib | 2003 | 3 | THE SATELLITE-BASED MONITORING INITIATIVE FOR REGIONAL AIR QUALITY (SAMIRA) |
| | Philipp Schneider | 1899 | 3 | |

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| P031 | CONTINUATION OF SATELLITE OBSERVATION OF NO2 OVER SOUTH ASIA USING OZONE MONITORING INSTRUMENT DURING THE PERIOD OF 2004-2016 | Maryam Sarfraz | 1968 | 3 |
| P032 | PERFORMANCE CHARACTERISTICS OF NEW NITROGEN DIOXIDE AND OZONE AIR QUALITY GAS SENSORS | John Saffell | 2055 | 3 |
| P033 | UNCONVENTIONAL CARRIERS TO CONDUCT AIR QUALITY MEASUREMENTS | Mariusz Rogulski | 2004 | 3 |
| P034 | THE "CARBONACEOUS AEROSOL IN ROME AND ENVIRONS (CARE)" EXPERIMENT | Gian Paolo Gobbi | 2043 | |
| P035 | EXPOSURE TO PARTICLES AND THEIR ELEMENTAL COMPOSITION DURING COMMUTE IN CURITIBA, BRAZIL | Suzana Curti | 2010 | |
| P036 | CHEMICAL AND MORPHOLOGICAL CHARACTERIZATION OF PM10 AT A CRITICALLY POLLUTED INDUSTRIAL CLUSTER | Smaranika Panda | 1957 | 3 |
| P037 | SENSORS IN AIR QUALITY MONITORING IN HELSINKI - FIELD TEST RESULTS AND UTILIZATION OF COMPLEMENTARY SENSOR NETWORKS | Jarkko Niemi | 1988 | 3 |
| P038 | SAMPLE PREPARATION AFFECTS METAL DISTRIBUTION IN A BIOMONITOR AFTER EXPOSURE TO SIMULATED ATMOSPHERIC NANO-POLLUTION: CELL MEMBRANE INTEGRITY ASSESSMENT | Oldrich Motyka | 1884 | 3 |
| P039 | HOTSPOT MONITORING OF BTEX CONCENTRATIONS AT AN INTERNATIONAL AIRPORT IN SOUTH AFRICA | Raeesa Moolla | 1953 | 3 |
| P040 | AIR POLLUTION EMISSION REDUCTION BY USING HAZARDOUS WASTE FOR CO PROCESSING | Balakrishna Gurugubelli | 1764 | 3 |
| P041 | PILOT STUDY OF THE IMPACT ON ENERGY EFFICIENCY AND EMISSIONS OF APPLYING GREEN PLUS CATALYSIS TECHNOLOGY TO DIESEL VEHICLES IN THE ABURRA VALLEY-COLOMBIA | Miriam Gomez | 1851 | 4 |
| P042 | EXTENDED CYCLING OPERATION OF A COPPER-BASED TYPE SOX ADSORBENT | Marc Berger | 1840 | 4 |
| P043 | ASSESSMENT OF THE METHANE PRODUCING AND EMISSION IN THE DOMINANT LANDSCAPES OF TYPICAL TUNDRA OF THE WESTERN YAMAL | Alexander Vasiliev | 1857 | 4 |
| P044 | COASTAL RETREAT AND METHANE EMISSION IN THE WESTERN YAMAL | Irina Streletskaya | 1841 | 4 |
| P045 | PAHS EMISSIONS FROM BIOMASS FUELS BURNING IN IGP PLAIN INDIA | Dharampal Singh | 2037 | 4 |
| P046 | IMPACT OF HALOGEN EMISSIONS FROM COAL-FIRED POWER PLANTS ON AIR QUALITY | Golam Sarwar | 1815 | 4 |
| P047 | EVALUATION OF TRAFFIC EMISSION MODELS COUPLED WITH A MICROSCOPIC TRAFFIC SIMULATOR WITH ON-ROAD MEASURES | Daniel Rodriguez Rey | 1804 | 4 |
| P048 | BIG DATA IN ENVIRONMENTAL AND OCCUPATIONAL EPIDEMIOLOGY: THE BEEP PROJECT | Massimo Stafoggia | 1923 | 5 |
| P049 | THE TRACE ELEMENTS ASSOCIATED WITH DIFFERENT SIZED PARTICULATE MATTER AND RELATED CANCER RISK: A CASE STUDY OF DEHRADUN VALLEY, INDIA | Vignesh prabhu | 1803 | 5 |
| P050 | AEROBIC EXERCISE BENEFITS ON OXIDATIVE STRESS IN RATS EXPOSED TO AIR POLLUTION | Bruna Marmett | 1771 | 6 |

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| P051 | HEALTH RISK ASSESSMENT FOR VARIOUS INDIAN CITIES DUE TO CRITERIA AIR POLLUTANTS | Amrit Kumar | 1943 | 6 |
| P052 | AMBROSIA AND CARBON DIOXIDE IN THE AMBIENT AIR IN KYIV | Kateryna Kharchenko | 1926 | 6 |
| P053 | MICROBIOLOGICAL EVALUATION TOWARDS WOODFRAME HOUSING - FFACHWERKHÄUSER | Helenne Jungblut Geissler | 1978 | 6 |
| P054 | HARMFUL EFFECTS OF OCCUPATIONAL EXPOSURE TO TRAFFIC-RELATED AIR POLLUTION ON OXIDATIVE AND GENETIC OUTCOMES IN PROFESSIONAL MOTORCYCLISTS | Roseana Boek Carvalho | 1770 | 6 |
| P055 | REDUCING PERSONAL EXPOSURE TO FINE AND ULTRAFINE PARTICLE BY MEANS OF IMPROVED COOKSTOVES IN RURAL SENEGAL | Mar Viana | 1850 | 6 |
| P056 | EXPLORING THE CONCENTRATIONS OF PARTICULATE MATTER (PM10 AND PM2.5) AND THEIR IMPACT ON HEALTH | Tehreem Mustansar | 2013 | 6 |
| P057 | SPATIAL DISTRIBUTION OF AIRBORNE POLLEN-INDUCED HEALTH SYMPTOMS IN BERLIN | Hans-Guido Muecke | 1825 | 6 |
| P058 | MAIN SOURCES OF OXIDATIVE STRESS INDUCED BY AIRBORNE PARTICULATE MATTER | Denis Sarigiannis | 2038 | 6 |
| P059 | MODELING OUTDOOR ULTRAFINE PARTICLES INFILTRATION INTO AN INDOOR ENVIRONMENT IN NATURAL AND MECHANICAL VENTILATION SYSTEMS | Claudio Gariazzo | 1789 | 7 |
| P060 | INDOOR PM10 AND PM2.5 PARTICULATE MATTER POLLUTION ASSESSMENT ACCORDING AMBIENT AIR QUALITY AND USE OF AIR PURIFIERS | Jakub Bartyzel | 1927 | 7 |
| P061 | DISCUSSION ON THE REPRESENTATIVENESS OF CURRENT METHODOLOGIES TO ASSESS INDOOR AIR QUALITY | Matthias Vogt | 1812 | 7 |
| P062 | MICROBIOLOGICAL EVALUATION TOWARDS WOODFRAME HOUSING - FACHWERKHAUSER | Helenne Jungblut Geissler | 2080 | 7 |
| P063 | INDOOR AIR QUALITY ASSESSMENT ON OFFICE BUILDINGS | Ramanathan Ramarajan | 1883 | 7 |
| P064 | CONNECTION BETWEEN VENTILATION REGIMES, TKE AND PARTICULATE MATTER IN INDOOR AIR | Armando Pelliccioni | 1906 | 7 |
| P065 | MONITORING OF INDOOR EMISSIONS PRODUCED BY HEATING AND ITS EXPOSURE TO UVA RADIATION | Jonas Munoz | 1937 | 7 |
| P066 | ASSOCIATION OF AIR POLLUTION LEVELS TO ATMOSPHERIC WEATHER REGIMES OVER EUROPE | Muntasir Abdalla Ibrahim | 1973 | 10 |
| P067 | THE IMPACT OF URBAN CANOPY METEOROLOGICAL FORCING ON AEROSOL CONCENTRATIONS | Peter Huszar | 1913 | 10 |
| P068 | FOG OCCURRENCE: THE TRENDS AND ASSOCIATION WITH AIR POLLUTION AND CLIMATE | Iva Hunova | 1821 | 10 |
| P069 | THE IMPACT OF URBAN AREA IN THE METEOROLOGICAL CONDITIONS OF THE METROPOLITAN AREA OF BELO HORIZONTE-BRAZIL USING WUDAPT- WRF MODEL | Amanda de Carvalho | 2051 | 10 |
| P070 | INTERRELATIONS BETWEEN FORMALDEHYDE, CONVENTIONAL POLLUTANTS, NON-OXYGENATED VOCs, AND METEOROLOGY IN A RURAL FORESTED AREA IN NORTHERN IBERIAN PENINSULA | Maite de Blas | 1928 | 10 |

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| P071 | THREE-DIMENSIONAL WIND ANALYSIS FOR AIR QUALITY MODELLING APPLICATIONS AT THE CIVITAVECCHIA PORT SITE (CENTRAL ITALY) | | |
| | Gabriele Curci | 1925 | 10 |
| P072 | ON THE DIRECT MEASURE OF DRAG FORCE OVER SIMPLIFIED GROUPS OF OBSTACLES | | |
| | Riccardo Buccolieri | 1878 | 10 |
| P073 | THERMAL INERTIA AND URBAN HEAT ISLAND IMPACT ON CLIMATOLOGY OF DELHI | | |
| | Shivesh Berwal | 2040 | 10 |
| P074 | ESTIMATES OF DIRECT RADIATIVE EFFECTS OF BACKGROUND AND SMOKE AEROSOLS IN IR SPECTRAL RANGE FOR SIBERIAN SUMMER CONDITIONS: RESULTS OF NUMERICAL SIMULATION | | |
| | Tatiana Zhuravleva | 1868 | 10 |
| P075 | SHORTWAVE RADIATION AND TEMPERATURE EFFECTS OF BACKGROUND AND SMOKE AEROSOL IN THE ATMOSPHERE OF SIBERIA ON THE BASIS OF EMPIRICAL DATA | | |
| | Tatiana Zhuravleva | 1867 | 10 |
| P076 | ASSESSMENT OF PLANETARY BOUNDARY LAYER SCHEMES IN MODELING THE DISPERSION AND SEDIMENTATION OF VOLCANIC ASH IN ECUADOR | | |
| | Rene Parra | 1786 | 10 |
| P077 | THREE DIMENSIONAL NUMERICAL SIMULATION OF POLLUTION DISPERSION AROUND TEHRAN MEHRABAD AIRPORT USING MICRO-SCALE COMMERCIAL CFD SOFTWARE FLUIDYN-PANAIR | | |
| | Vahid Hosseini | 2056 | 11 |
| P078 | A SENSITIVITY ANALYSIS FOR DETERMINING OPTIMUM WRF AND CALPUFF CONFIGURATION FOR OPERATIONAL AIR QUALITY FORECAST. APPLICATION TO A CASE STUDY IN THE PORT OF HUELVA | | |
| | Maria Angeles Gonzalez | 1980 | 11 |
| P079 | HYBRID ARTIFICIAL NEURAL NETWORK COUPLED WITH KALMAN FILTERS FOR AIR QUALITY FORECASTING IN GUADALAJARA, MEXICO | | |
| | Carlos Gonzalez-Figueroa | 1912 | 11 |
| P080 | SURFACE OZONE EXCEEDANCES IN ITALY: STATISTICAL ANALYSIS AND MODELLING IN THE PERIOD 2002-2016 | | |
| | Serena Falasca | 1879 | 11 |
| P081 | SENSITIVITY STUDY OF THE AIR QUALITY MODELLING TOOL WRF-CHIMERE TO HORIZONTAL RESOLUTION AND URBAN CANOPY MODELS OVER ITALY | | |
| | Serena Falasca | 1863 | 11 |
| P082 | A SIMPLE AIR POLLUTION DISPERSION MODEL DEVELOPED IN DIFFERENT REAL URBAN STREET CANYONS | | |
| | Mariana Dezzutti | 1790 | 11 |
| P083 | DISPERSION MODELING OF RADON TO AID EMISSION ASSESSMENT: THE PRIDNEPROVSKY CHEMICAL PLANT | | |
| | Christian Asker | 1894 | 11 |
| P084 | UMO: SIMULATING THE DISPERSION OF NOX EMISSIONS BY TRAFFIC AND DOMESTIC HEATING IN MODENA | | |
| | Giorgio Veratti | 2048 | 11 |
| P085 | METHODOLOGY FOR INVERSE DISPERSION MODELLING IN URBAN AREAS | | |
| | Nicolas Moussiopoulos | 2062 | 11 |
| P086 | USE OF WRF METEOROLOGY IN THE LOTOS-EUROS CHEMISTRY TRANSPORT MODEL | | |
| | Astrid Manders | 1893 | 11 |
| P087 | TEMPORAL VARIATIONS IN LONG-RANGE ATMOSPHERIC TRANSPORT OF AIR MASSES AND ANTHROPOGENIC HEAVY METALS TO THE RUSSIAN ARCTIC: 1986-2016 | | |
| | Anna Vinogradova | 1880 | 11 |
| P088 | A SIMPLE AIR POLLUTION DISPERSION MODEL DEVELOPED IN DIFFERENT REAL URBAN STREET CANYONS | | |
| | Mariana Dezzutti | 1790 | 11 |
| P089 | USE OF WRF METEOROLOGY IN THE LOTOS-EUROS CHEMISTRY TRANSPORT MODEL | | |
| | Astrid Manders | 1893 | 11 |
| P090 | A FRAMEWORK FOR AIR QUALITY MODELLING USING OPENFOAM | | |
| | David Segersson | 1814 | 11 |

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| P091 | OPTIMIZATION OF DUST-BINDNING USING THE NORTRIP-MODEL | Kristina Eneroth | 1963 | 11 |
| P092 | HYBRID ARTIFICIAL NEURAL NETWORK COUPLED WITH KALMAN FILTERS FOR AIR QUALITY FORECASTING IN GUADALAJARA, MEXICO | Carlos Gonzalez-Figueroa | 1912 | 11 |
| P093 | MODELLING OF BENZO(A)PYRENE IN SE SPAIN TO DETERMINE LEVELS, HUMAN HEALTH FACTORS AND CLIMATE CHANGE EFFECTS | Pedro Jimenez-Guerrero | 2035 | 11 |
| P094 | MONITORING OF AMBIENT AIR POLLUTION VIA LOCAL REMOTE SENSORS AND ITS EFFECTS TO AGRICULTURAL CROPS IN PAKISTAN: A THREAT TO THE FUTURE FOOD SECURITY OF SOUTH -ASIA? | Muhammad Nauman Ahmad | 1765 | 12 |
| P095 | MONITORING AND FORECASTING DUST HAZE OVER WEST AFRICA USING SATELLITE IMAGERIES AND NUMERICAL WEATHER PREDICTION OUTPUT : SOME APPLICATIONS | Abdou Adam Abdoul-Aziz Abebe | 1934 | 13 |
| P096 | SAHARAN-DUST CONTRIBUTION TO PM10 LEVELS IN ITALY OVER THE 7-YEAR PERIOD 2006-2012 | Francesca Barnaba | 1948 | 13 |
| P097 | STUDY OF THE CONTEMPORARY OCCURRENCE OF HIGH LEVELS OF AIR POLLUTANTS AND POLLENS IN THE CITY OF ROME | Alessandro Di Menno di Bucchianico | 1915 | 14 |
| P098 | ODD-EVEN RULE TO COUNTER AIR POLLUTION: A CASE STUDY OF DELHI | Yogender Singh | 2000 | 14 |
| P099 | ACTIVE BIOMONITORING OF AIR POLLUTION IN BAKU, THE CAPITAL OF AZERBAIJAN | Afag Madadzada | 1782 | 15 |
| P100 | AIRBORNE PARTICULATE MATTER MONITORING IN NAIROBI, KENYA USING CALIBRATED LOW COST SENSORS | Rhiannon Blake | 1870 | 15 |
| P101 | PERFORMANCE OF LOW COST AIR QUALITY SENSORS IN A REAL WORLD APPLICATION | Alessandro Bigi | 2022 | 15 |
| P102 | FOLIAR UPTAKE OF AIRBORNE PARTICULATES CONTAMINATED WITH HEAVY METALS | Shidharth Sankar Ram | 1950 | 15 |