

18th GEIA Conference

Emissions Science for a Healthy Environment

The interplay of human versus natural influences on climate and air quality

University of Hamburg, Hamburg, Germany

Meteorological Institute, Bundesstrasse 55



PROGRAM AT A GLANCE

Version - 31 August 2017

Tuesday 12 September 2017

18:30 20:00 *Icebreaker event*

Wednesday 13 September 2017

7:30 8:30 *Registration*

8:30 9:30 *Welcome Session*

9:30 10:20 *Inventories and Emissions Trends: Oral Session 1*

10:20 10:50 *Break*

10:50 11:35 *Inventories and Emissions Trends: Oral Session 2*

11:35 12:20 *Inventories and Emissions Trends: Oral Session 3*

12:20 14:00 *Lunch, GEIA Working Group meetings*

14:00 14:45 *Inventories and Emissions Trends: Oral Session 4*

14:45 15:00 *Inventories and Emissions Trends: Poster Presenter Introductions*

15:00 16:00 *Inventories and Emissions Trends: Poster Session*

16:00 16:30 *Break*

16:30 17:20 *Top-Down Emissions Analyses: Oral Session 1*

17:20 18:05 *Top-Down Emissions Analyses: Oral Session 2*

18:05 18:20 *Demonstration of ECCAD, GEIA's Emissions Database Portal*

18:30 20:00 *Conference Reception*

Thursday 14 September 2017

7:30 8:30 *Registration*

8:30 9:15 *Top-Down Emissions Analyses: Oral Session 3*

9:15 10:00 *Top-Down Emissions Analyses: Oral Session 4*

10:00 10:30 *Break*

10:30 10:45 *Top-Down Emissions Analyses: Poster Presenter Introductions*

10:45 11:45 *Top-Down Emissions Analyses: Poster Session*

11:45 13:15 *Lunch, Early Career - Senior Scientist Roundtables*

13:15 14:05 *Environmental, Climate, Health and Societal Impacts: Oral Session 1*

14:05 14:50 *Environmental, Climate, Health and Societal Impacts: Oral Session 2*

14:50 15:20 *Break*

15:20 16:45 *Town Hall*

16:45 17:30 *Reports from GEIA Working Groups and Partners*

17:30 17:45 *Demonstration of Community Emissions Data System (CEDS)*

Evening out in Hamburg

Friday 15 September 2017

7:30 8:30 *Registration*

8:30 9:15 *Environmental, Climate, Health and Societal Impacts: Oral Session 3*

9:15 10:00 *Environmental, Climate, Health and Societal Impacts: Oral Session 4*

10:00 10:15 Environmental, Climate, Health and Societal Impacts: Poster Presenter Introductions

10:15 10:45 *Break*

10:45 11:45 Environmental, Climate, Health and Societal Impacts: Poster Session

11:45 12:15 Concluding Session

12:15 14:00 *Lunch*

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DETAILED PROGRAM

WEDNESDAY 13 SEPTEMBER 2017

7:30	8:30	Registration	
8:30	9:30	Welcome Session	
8:30	8:40	Conference Overview	Paulette Middleton
8:40	8:45	Welcome from Conference Host	Guy Brasseur (MPIM - Hamburg)
8:45	8:50	Welcome from University of Hamburg	Matthias Hort (U Hamburg)
8:50	8:55	Welcome from IGAC	Greg Frost
8:55	9:00	Welcome from iLEAPS	Greg Frost, on behalf of iLEAPS SSC
9:00	9:05	Welcome from NASA	Richard Eckman (NASA)
9:05	9:20	The Status of the first Atmospheric Sentinel Mission S-5 Precursor and its possible Exploitation for Emission Monitoring	Claus Zehner (ESA)
9:20	9:30	Session discussion	
9:30	10:20	Inventories and Emissions Trends: Oral Session 1	Chairs: Greet Janssens-Maenhout, Ute Skiba, Hugo Denier van der Gon
9:30	9:35	Theme Introduction	Session Chairs
9:35	9:40	The 1970-2012 emissions atlas of EDGARv4.3.2	Greet Janssens-Maenhout (JRC)
9:40	9:45	Surface emissions from the RCPs scenarios: are they consistent with the most recent inventories?	Claire Granier (Laboratoire d'Aerologie, Toulouse; NOAA/CIRES)
9:45	9:50	Global emissions in the Copernicus Atmosphere Monitoring Service	Mark Parrington (ECMWF)
9:50	9:55	Next Steps For Improving Emission Estimates (With The Community Emissions Data System-CEDS)	Steven Smith (JGCRI)
9:55	10:00	Progress towards comprehensive uncertainty estimates and emissions ensembles with the Community Emissions Data System (CEDS)	Rachel Hoesly (JGCRI)
10:00	10:20	Session discussion	
10:20	10:50	Break	
10:50	11:35	Inventories and Emissions Trends: Oral Session 2	Chairs: Greet Janssens-Maenhout, Ute Skiba, Hugo Denier van der Gon
10:50	10:55	Extension of a long-term BVOC emission dataset and its comparison with other emission studies	Katerina Sindelarova (Charles U, Prague; LATMOS-IPSL, Paris)
10:55	11:00	The KORUS2015 Emissions Inventory – Initial Findings and Future Perspectives	Jung-Hun Woo (Konkuk U)
11:00	11:05	African Anthropogenic Emissions Inventories for gases and particles from 1990 to 2016	Sekou Keita (U Félix Houphoët-Boigny, Côte d'Ivoire)
11:05	11:10	First analysis of anthropogenic VOC distribution and emission fingerprints in Abidjan, West Africa	Pamela Dominutti (LaMP/CNRS, Clermont-Ferrand)

11:10	11:15	DICE-Africa: Diffuse and Inefficient Combustion Emissions in Africa, today and in the future	Christine Wiedinmyer (NCAR), presented by Evan Coffey (U Colorado)
11:15	11:35	Session discussion	
11:35	12:20	Inventories and Emissions Trends: Oral Session 3	Chairs: Greet Janssens-Maenhout, Ute Skiba, Hugo Denier van der Gon
11:35	11:40	An emission processing system for the Mexico City metropolitan area: Evaluation and comparison of the MOBILE6.2-Mexico and MOVES-Mexico traffic emissions	Marc Guevara Vilardell (Barcelona Supercomputing Center)
11:40	11:45	Current and Future Primary Particle Number Size Distribution Emission Inventory of On-road Vehicles in Southeast Asia	Ekbordin Winijkul (Asian Institute of Technology)
11:45	11:50	Now you see me, now you don't. Lessons learnt from the construction of ship emission inventories ranging from local to global scale.	Jukka-Pekka Jalkanen (Finnish Meteorological Institute)
11:50	11:55	An AIS-based 2013 ship emission inventory and estimated trends from 2004 to 2040 in China	Junyu Zheng (South China U Tech)
11:55	12:00	Ship Emissions from All Vessels with AIS Activity Data in Pearl River Delta	Yiqi Zhang (Hong Kong U Sci Tech)
12:00	12:20	Session discussion	
12:20	14:00	Lunch GEIA Working Group meetings	
14:00	14:45	Inventories and Emissions Trends: Oral Session 4	Chairs: Greet Janssens-Maenhout, Ute Skiba, Hugo Denier van der Gon
14:00	14:05	Inter-comparison of Global Satellite Burned Area Maps derived from MODIS, MERIS and SPOT-VGT	Angelika Heil (MPIC - Mainz)
14:05	14:10	An Operational Numerical Air Quality Forecasting over Eastern China	Guangqiang Zhou (YRDCEPW, Shanghai Meteorological Service, Shanghai)
14:10	14:15	Drying lakes as emerging sources of dust: Case of Urmia Lake, Iran	Ali Hoshyaripour (Karlsruhe Institute of Technology)
14:15	14:20	Ammonia emissions from agriculture activities in Argentina (2000-2012) under increasing soybean expansion and changes in livestock production	Paula Castesana (3iA-UNSAM & FRBA-UTN, Buenos Aires)
14:20	14:25	Volatile Chemical Products Emerging as Largest Fossil-Source of Organics over U.S. Cities	Brian McDonald (NOAA/CIRES)
14:25	14:45	Session discussion	
14:45	15:00	Inventories and Emissions Trends: Poster Presenter Introductions	Chairs: Greet Janssens-Maenhout, Ute Skiba, Hugo Denier van der Gon
15:00	16:00	Inventories and Emissions Trends: Poster Session	Chairs: Greet Janssens-Maenhout, Ute Skiba, Hugo Denier van der Gon
		Global Modeling of Oceanic Carbon Monoxide Emissions	Ludivine Conte (CEA-CNRS-UVSQ, Gif sur Yvette)
		The Community Emissions Data System (CEDS): an open source system for global anthropogenic emissions inventories	Leyang Feng (JGCRI), presented by Rachel Hoesly (JGCRI)
		Using STEAM and SILAM to model hydrocarbon emissions and dispersion from compression-ignition ship engines	Jaakko Laakia (Finnish Meteorological Institute)

Influence of canopy reduction on biogenic NO emission patterns in northern Europe	Jan Alexander Arndt (Helmholtz-Zentrum Geesthacht)
Emissions from cooking and other sources in West Africa	Evan Coffey (U Colorado)
Evaluation of historical emission inventory in Asia	Jun-ichi Kurokawa (Asia Center for Air Pollution Research)
Regional, national and port level shipping emission inventories in East Asia	Huan Liu, presented by Xinxin Jin (Tsinghua U, Beijing)
Modelling the temporal and spatial allocation of emission data	Volker Matthias (Helmholtz-Zentrum Geesthacht)
Shipping emissions over Europe: A state-of-the-art and comparative analysis	Michael Russo (University of Aveiro, Portugal)
Biomass burning emissions inventories over Africa: How to explain the differences observed between GFED and AMMABB inventories?	N'Datchoh Evelyne Toure (Laboratoire d'Aerologie, Toulouse; U Félix Houphoët-Boigny, Côte d'Ivoire)
Aerosol and VOC emission factor measurements for African anthropogenic sources	Veronique Yoboué (U Félix Houphoët-Boigny, Côte d'Ivoire)
Impacts of emissions from Cuba's stationary sources	Osvaldo Cuesta-Santos (Cuban Meteorological Institute)
Estimation of greenhouse gases emissions from the transport sector in Azerbaijan	Sadig Hasanov (National Academy of Sciences of Azerbaijan)
Portuguese emissions trends under the NEC Directives	Joana Leitão (University of Aveiro, Portugal; now at IASS, Potsdam)
Development of spatial disaggregation models for the Waste Sector Emission Inventory in Argentina	Romina María Pascual Flores (National Technological University, Mendoza)
Agriculture gridded emissions for air quality modelling purposes – the Portuguese case	Sara Silva (University of Aveiro, Portugal)
Historical Trend of Air Pollutants Emissions in Japan	Yutaka Tonooka (Assoc Internat Research Initiatives for Environmental Studies, Japan)
Overview of Korean National Air Pollutants Emissions Inventory	So-young Yeo (National Institute of Environmental Research, Incheon, Korea)
A line-point source model for ship emissions in ports	Armin Aulinger (Helmholtz-Zentrum Geesthacht)
Determination of the Emission Factors of Jeepneys and Tricycles in the Philippines	Mylene Cayetano (University of the Philippines)
Emission inventories for domestic heating: a bottom-up model for the city of Hamburg	Martin Otto Paul Ramacher (Helmholtz-Zentrum Geesthacht)
Emission Characteristics of VOCs for Automobile Surface Coating Operations	Zhien Zhou (Chongqing Research Academy of Environmental Sciences)
16:00 16:30 Break	
16:30 17:20 Top-Down Emissions Analyses: Oral Session 1	Chairs: Yuxuan Wang, Johannes Kaiser, Leonor Tarrasón
16:30 16:35 Theme Introduction	Session Chairs
16:40 16:45 Decadal changes in global surface NO _x emissions from multi-constituent satellite data assimilation	Kazuyuki Miyazaki (JAMSTEC)
16:35 16:40 Intercomparison of NO _x emission inventories over East Asia	Ronald van der A (KNMI)
16:45 16:50 Space-based NO _x shipping emissions near the Chinese coasts	Jieying Ding (KNMI)
16:50 16:55 Confronting Recent Chemical Reanalyses with Satellite Data on Combustion Characteristics Over Megacities	Avelino Arellano (U Arizona)

16:55	17:00	A new emission inventory for China based on the monitoring and assessment of regional air quality in China using space observations (MARCOPOLO project)	MariLiza Koukouli (Aristotle University of Thessaloniki)
17:00	17:20	Session discussion	
17:20	18:05	Top-Down Emissions Analyses: Oral Session 2	Chairs: Yuxuan Wang, Johannes Kaiser, Leonor Tarrasón
17:20	17:25	Emissions of VOCs over India and the Middle East estimated using OMI HCHO observations and the MAGRITTE regional model	Jean-François Müller (Royal Belgian Institute for Space Aeronomy)
17:25	17:30	A global inventory of anthropogenic and volcanic SO ₂ emissions derived from the Ozone Monitoring Instrument (OMI)	Vitali Fioletov (Environment and Climate Change Canada)
17:30	17:35	Estimating CO emissions using IASI data and hemispheric constraints on OH concentrations	Trisevgeni Stavrakou (Royal Belgian Institute for Space Aeronomy)
17:35	17:40	Assessing the influence of regional transport from Mainland China over the Korean Peninsula during the 2016 KORUS-AQ Field Campaign	Hannah Halliday (NASA Langley)
17:40	17:45	Agricultural NH ₃ emissions regional variability and trends as observed by IASI	Audrey Fortems-Cheiney (LISA, CNRS/INSU, Université Paris-Est Créteil)
17:45	18:05	Session discussion	
18:05	18:20	Demonstration of ECCAD, GEIA's Emissions Database Portal	Sabine Darras (CNRS, Observatoire Midi-Pyrenees)
18:30	20:00	Conference Reception	

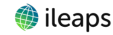
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DETAILED PROGRAM

THURSDAY 14 SEPTEMBER 2017

7:30	8:30	Registration	
8:30	9:15	Top-Down Emissions Analyses: Oral Session 3	Chairs: Yuxuan Wang, Johannes Kaiser, Leonor Tarrasón
8:30	8:35	The global methane budget 2000-2012: budget and trends	Marielle Saunois (LSCE, CEA-UVSQ-CNRS, Université Paris Saclay)
8:35	8:40	Evaluating updated light alkane emissions from the oil and natural gas industry in the U.S.	Zitely Tzompa (Colorado State U)
8:40	8:45	Gas flaring detection, characterisation and emissions assessment from Sentinel-3 SLSTR	Alexandre Caseiro (MPIC, Mainz)
8:45	8:50	Measurement-based methane emission quantification from Europe's largest on-shore gas field	Hugo Denier van der Gon (TNO)
8:50	8:55	Mobile measurements reveal high ammonia concentrations in German inner cities	Robert Wegener (Forschungszentrum Jülich)
8:55	9:15	Session discussion	
9:15	10:00	Top-Down Emissions Analyses: Oral Session 4	Chairs: Yuxuan Wang, Johannes Kaiser, Leonor Tarrasón
9:15	9:20	Integrating remotely sensed AOD and trace gasses to quantify the 3-dimensional emissions of Asian aerosols	Jason Blake Cohen (Sun Yat-Sen University)
9:20	9:25	Efficient high-resolution constraints for primary aerosol emissions during biomass burning events	Jonathan Guerrette (NOAA)
9:25	9:30	Constraining black carbon emissions from Siberian wildfires using remote sensing aerosol measurements	Igor Konovalov (Russian Academy of Sciences)
9:30	9:35	Top-down Validation of Swiss non-CO2 Greenhouse Gas Emissions	Stephan Henne (EMPA)
9:35	9:40	Improving emission and air quality analyses via better representing the land surface states	Min Huang (George Mason U)
9:40	10:00	Session discussion	
10:00	10:30	Break	
10:30	10:45	Top-Down Emissions Analyses: Poster Presenter Introductions	Chairs: Yuxuan Wang, Johannes Kaiser, Leonor Tarrasón
10:45	11:45	Top-Down Emissions Analyses: Poster Session	Chairs: Yuxuan Wang, Johannes Kaiser, Leonor Tarrasón
		Consistency between recent trends in emissions and satellite observations in different world cities	Louise Granier (LATMOS, Paris)
		High-resolution global surface NOx emissions from multi-constituent satellite data assimilation	Takashi Sekiya (JAMSTEC)

	Network for Observation of Volcanic and Atmospheric Change (NOVAC)	Bo Galle (Chalmers U, Göteborg)
	Evaluation of the BC / OC ratios for aerosol emissions from biomass burning in Siberia using AERONET retrievals	Daria Lvova (Russian Academy of Sciences), presented by Igor Konovalov
	An optimized NO _x emission inventory over East Asia, from PYVAR-CHIMERE inverse modeling tool constrained by OMI satellite observations	Lorenzo Costantino (LISA, Université Paris-Est Créteil)
	SO ₂ emissions over China: Evaluation of new top-down inventories	Dimitrios Balis, presented by Mariliza Koukouli (Aristotle University of
	Verifying the UK agricultural N ₂ O emission inventory with tall tower measurements	Edward Carnell (CEH Edinburgh)
	Stratospheric Ozone data quality in form of long term variability and trend study on comparison of Indian Ozonesonde and Satellite data over three sites at different latitudes of India	Rohtash Singh Garhwal (CSIR-National Physical Laboratory)
	Development of black carbon emissions inventory of Pakistan	Imran Shahid (Institute of Space Technology, Islamabad)
	Spatial and temporal distribution of emissions from on-road transport activity in Chile	Ignacio Andrés Suárez Laengle (Universidad Técnica Federico Santa María, Santiago)
	City-scale top-down verifications of NO _x emissions in South Korea using satellite observations	Jae Hyeong Lee (Kongju National University, Korea)
	High spatial resolution mapping of urban emissions at neighborhood scale	Erik Velasco (Singapore-MIT Alliance for Research and Technology)
	Carbonyl Sulfide Serves as Tattletale for Biosphere Signal	Gara Villaiba (Universitat Autònoma de Barcelona)
	Geostatistics for local emission inventories	Damian Zasina (The National Centre for Emissions Management, Warsaw, Poland)
	Anthropogenic Carbon Dioxide Emissions in Tokyo Metropolis Estimated with a Combination of Top-down and Bottom-up Approach	Richao Cong (NIES, Japan)
11:45	13:15 Lunch	
	Early Career - Senior Scientist Roundtables	
13:15	14:05 Environmental, Climate, Health and Societal Impacts: Oral Session 1	Chairs: Beatriz Cárdenas, Cathy Liousse, Zbigniew Klimont
13:15	13:20 Theme Introduction	Session Chairs
13:20	13:25 Uncertainties of Estimated PM _{2.5} - and O ₃ -Related Health Impacts in China due to Emissions	Futu Chen (Emory U)
13:25	13:30 Effect of different emission inventories on modeled trace gas and aerosol distribution in China	Idir Bouarar (MPIM, Hamburg)
13:30	13:35 Implication of Rural Residential Energy Transition in China	Shu Tao (Peking U)
13:35	13:40 Characteristics of emission particles over Indo-Gangetic Basin: health and climatic implications	Ranjit Kumar (Dayalbagh Educational Institute, Agra)
13:40	13:45 Linked Analysis of Baseline Emissions and Reduction Pathways for China and Korea	Younha Kim (Konkuk U, Seoul)
13:45	14:05 Session discussion	
14:05	14:50 Environmental, Climate, Health and Societal Impacts: Oral Session 2	Chairs: Beatriz Cárdenas, Cathy Liousse, Zbigniew Klimont
14:05	14:10 Discrepancies in industrial VOC emissions: impact on tropospheric ozone	Johan Mellqvist (Chalmers U, Göteborg)

14:10	14:15	The Effect of Meteorological Variabilities on Atmospheric Sulfate Aerosols over East China and the United States: The Analyses of NCAR-CESM Simulations	Chi-Yun Wang (National Taiwan U; SUNY Albany)
14:15	14:20	Benzo[a]pyrene and CO2 emissions trade-off between biomass combustion and fossil fuel used in the residential sector: an insight on climate and air quality/health co-benefits.	Marilena Muntean (JRC)
14:20	14:25	Source-specific estimation of air quality co-benefits of CO2 reduction in Europe, Canada and the United States using backward sensitivity analysis	Marjan Soltanzadeh (Carleton U, Ottawa)
14:25	14:30	Electric vehicles – emission scenarios for Poland and air quality modelling results	Jacek Kaminski (Polish Academy of Sciences)
14:30	14:50	Session discussion	
14:50	15:20	Break	
15:20	16:45	Town Hall	Chairs: Leonor Tarrasón, Greg Frost, Paulette Middleton, Claire Granier
15:20	15:30	Introduce town hall, separate into breakout groups	
15:30	16:30	Breakout group discussions	
16:30	16:45	Reconvene and reports from breakout groups	
16:45	17:30	Reports from GEIA Working Groups and Partners	Chairs: Greg Frost, Paulette Middleton
16:45	16:50	Towards a harmonized emission inventory in South America for air quality and climate modelling	Nicolas Huneeus (U Chile) - on behalf of Latin America/Caribbean WG
16:50	16:55	Managing the mean or the tail: sensitivity of surface PM2.5 to emissions changes in China	Yuxuan Wang (U Houston; Tsinghua U, Beijing) - on behalf of China WG
16:55	17:00	Comparing measurements and emission inventory data for NMVOCs in urban areas	Erika von Schneidmesser (IASS, Potsdam) - on behalf of NMVOC WG
17:00	17:05	New methods to bridge differences between regional and local emission inventories	Leonor Tarrasón (NILU) - on behalf of Urban WG
17:05	17:10	Report from 2017 IBBI workshop on improving operational fire emission estimates with current field campaigns	Johannes Kaiser (MPIC, Mainz) - on behalf of Interdisciplinary Biomass Burning Initiative
17:10	17:30	Session discussion	
17:30	17:45	Demonstration of Community Emissions Data System (CEDS)	CEDS Representative
Evening out in Hamburg			

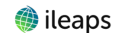
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DETAILED PROGRAM

FRIDAY 15 SEPTEMBER 2017

7:30	8:30	Registration	
8:30	9:15	Environmental, Climate, Health and Societal Impacts: Oral Session 3	Chairs: Beatriz Cárdenas, Cathy Liousse, Zbigniew Klimont
8:30	8:35	Quantifying sources contributing to ambient particulate matter in low income areas of South Africa	Roelof Burger (North-West University, Potchefstroom, South Africa)
8:35	8:40	Simulation of current and future surface ozone concentrations over the South African Waterberg region	Mogesh Naidoo (CSIR-NRE, Pretoria)
8:40	8:45	Emissions, Air pollution and Health in southern west Africa in the frame of DACCIWA-WP2 program.	Cathy Liousse (Laboratoire d'Aerologie, Toulouse)
8:45	8:50	Household solid fuel use for space heating: Updating emissions estimates to better understand air pollution, health, and climate change implications	Zoe Chafe (Cornell U)
8:50	8:55	Impact of landuse change from forest to oil palm plantation on direct and indirect greenhouse gas emissions.	Ute Skiba (CEH, Penicuik)
8:55	9:15	Session discussion	
9:15	10:00	Environmental, Climate, Health and Societal Impacts: Oral Session 4	Chairs: Beatriz Cárdenas, Cathy Liousse, Zbigniew Klimont
10:00	9:40	Forecasting wildfires' impact on air quality	Solene Turquety (UPMC, CNRS/INSU; LMD/IPSL, Paris)
10:05	10:10	First Experiences of Mexico City Air Quality Forecast System	Beatriz Cardenas (Mexico City Ministry of Environment)
10:10	10:15	Canadian Air Quality Modelling Platform for Policy Emission Reduction scenarios	Sophie Cousineau (Environment and Climate Change Canada)
10:15	10:20	Assessing the air quality health benefits of phasing out coal-fire power plant in Ontario and Alberta: An adjoint sensitivity analysis	Yasar Burak Oztaner (Carleton U, Ottawa)
10:20	10:25	Estimating the Tipping Point of Urban NO _x Control in major US cities	Angele Genereux (Carleton U, Ottawa)
10:25	10:45	Session discussion	
10:00	10:15	Environmental, Climate, Health and Societal Impacts: Poster Presenter Introductions	Chairs: Beatriz Cárdenas, Cathy Liousse, Zbigniew Klimont
10:15	10:45	Break	
10:45	11:45	Environmental, Climate, Health and Societal Impacts: Poster Session	Chairs: Greet Janssens-Maenhout, Ute Skiba, Hugo Denier van der Gon
		Kuwait's Vision for Environmental Data Management 2010-2030	Marwan Al-Dimashki (EPA/eMISK, Kuwait)

Analysis of Criteria pollutant and weather conditions. Case study: Highest record of temperature in Bogota, Colombia.	Juan Aragon (Universidad Libre Colombia)
Linked Analysis of Baseline Emissions and Reduction Pathways for China and Korea	Younha Kim (Konkuk U, Seoul)
Climatology (2003-2015) analysis of Remotely-Sensed and Surface Data of Aerosols and Meteorology for the Mexico Central Megalopolis Area.	Marco Mora (Benemérita Universidad Autónoma de Puebla, Mexico)
The Impact of Climate Change and the Coastal Settlement in Nigeria.	Michael Adedotun Oke (Michael Adedotun Oke Foundation, Nigeria)
Bioavailability of the Metal Bounded to Ultrafine Fraction of Airborne Particles and Appraisal of Exposure Risk in an Urban Atmosphere of Southwestern Nigeria	Gbenga Olumayede (Federal University Oye-Ekiti, Nigeria)
High-Frequency Box-Modelling of Airborne Data from KORUS-AQ: Spatiotemporal Analysis of O3 and its Precursors, and Evaluation of Emissions Sector Contributions to O3 in the Seoul Metropolitan Area	Jason Schroeder (NASA Langley)
Air Quality and Health Impacts from Control Policies on Coal-fired Power Plants in China from 2005 to 2015	Ruili Wu (Tsinghua U, Beijing)
Influence of Brick kilns emissions in the atmosphere pollution in Dhaka, Bangladesh	Abdus Salam (U Dhaka, Bangladesh)
How current and proposed thermal power plants affect the global carbon budget?	Dan Tong (Tsinghua U, Beijing)
Measurement of Particulate Matter and its Risk Assessment in an Urban Environment of Niger Delta Region of Nigeria	Stephen Uzoekwe (Federal University, Otuoke, Nigeria)
Effect of climate change and CO2 inhibition on isoprene emissions in Europe calculated using the ALARO-0 regional climate model	Maite Bauwens (BIRA-IASB, Brussels)
Soot emissions as a significant contributor to global warming	Nasreen Farah
11:45 12:15 Concluding Session	Leonor Tarrasón
12:15 14:00 Lunch	