



P R O G R A M

Air Quality Management at Urban, Regional and Global Scales

4th International Symposium

&

IUAPPA Regional Conference

10 – 13 September 2012

Istanbul Technical University, Istanbul – Turkey

organized by

Istanbul Technical University - ITU

Turkish National Committee for Air Pollution and Control - TUNCAP

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Monday - 10 September 2012

09:15 Welcome Remarks by

Selahattin INCECIK, Conference Chair

Abdurrahman BAYRAM, President of TUNCAP

Hanlie Libenberg-ENSLIN, President of IUAPPA

Viladimira VADJIC, EFCA

Sedat KADIOGLU, Deputy Undersecretary, Ministry of Environment and Urbanization

Mehmet KARACA, Rector of Istanbul Technical University

10:15 - 10:45 Coffee Break

PLS - PLENARY SESSION

Chair: Alan W. Gertler

10:45 – 11:15

PLS1.1.1 Volodymyr Demkyne, **Achieving Climate and Clean Air Benefits Together: Short-Lived Climate Forcers and the Role of the New Climate and Clean Air Coalition**

11:15 – 11:45

PLS1.1.2. Haluk Özkaynak, **Overview and evaluation of alternative air quality exposure metrics used in air pollution epidemiological studies**

11:45 – 12:15

PLS1.1.3. Ricardo H.M. Godoi, H.Evangelista, M.Cataldo, A.F.L.Godoi, R.C.Charello, S.P-V, R.van Grieken
Atmospheric particles at Antarctic: Past, Present and Future of monitoring of Brazilian Antarctic Program

12:15 – 12:45

PLS1.1.4. Ekrem Ekinci, **Climate change and energy emissions in the world and Turkey**

12:50 - 13:50 Lunch

Monday - 10 September 2012

<i>Monday - 10 September 2012</i>		
	ROOM A	ROOM B
	AER – Aerosols	AQM - Air Quality Management
	Chair: Ekrem Ekinici	Chair: Nguyen Dinh
14:00 – 16:00		
14:00 – 14:20	AER1.2.1. Yanyan Zhang, Daniel Obrist, Barbara Zielinska, Alan W. Gertler Emissions of Carbon Species, Organic Polar Compounds, Potassium, and Mercury from Controlled Biomass Burning	AQM1.2.1. Nguyen Dinh, Phan-Nguyen Bao Hanh Air quality state and management practice in Ho Chi Minh City, Vietnam,
14:20 – 14:40	AER1.2.2. A.G. Mmari, S. S. Potgieter-Vermaak, R. Van Grieken Elemental components of atmospheric aerosols at coastal and rural areas in Tanzania	AQM1.2.2. B.L. Mendoza, C. A. Alberti and C. Rudamas Analysis of nitrogen dioxide measurements during November 2011 campaign using MAX-DOAS.
14:40 – 15:00	AER1.2.3 Julie Kerrod, Robert McIntyre, Enrico Geninazza Performances of Photocatalytic Materials in Real-Life Applications	AQM1.2.3. G L Suma Lata, D.Prasad, N Karuna Urbanisation and air pollution: a case study of Hyderabad, India
15:00 – 15:20	AER1.2.4. Fatma Öztürk, Vincent.A.Dutkiewicz, Liaquat Husain, Gürdal Tuncel Local and remote sources of Black Carbon (BC) aerosols in Eastern Mediterranean Atmosphere	AQM1.2.4. Devis Panont, Claudia Tarricone Environmental assessment of a steel industry through chemical characterization of PM10 and bulk deposition in the urban area of Aosta (Italy)
15:20 – 15:40	AER1.2.5. Diah Dwiana Lestiani, Muhayatun Santoso, Syukria Kurniawati, Andreas Markwitz Characteristic of Airborne Particulate Matter Samples Collected from Two Semi Industrial Sites in Bandung, Indonesia	AQM1.2.5. Sef van den Elshout, Rinkje Molenaar and Bart Wester Adaptive traffic management in cities – comparing decision making methods
15:40 – 16:00	AER1.2.6. Levent Kuzu, Arslan Saral, Selami Demir, Gülten Güneş, Nihan Uygur Particle Number Estimation in Ambient Aerosols Using a Cascade Impactor	AQM 1.2.6. Alfred Lawrence, Nishat Fatima Urban Air pollution and its assessment of Lucknow City- the Second Largest City of North India
16:00 – 16:20	<i>Coffee Break</i>	

Monday - 10 September 2012

	ROOM A	ROOM B
16:20 – 18:00	AER - Aerosols	AQM – Air Quality Management
	Chair: James Sloan	Chair: Haluk Özkaynak
16:20 – 16:40	AER1.2.7. Rabab Mashayekhi, James Sloan Investigation of Aerosol-Precipitation Interactions in North-Eastern North America	AQM1.2.7. Claire C. Austin Merging air pollution datasets: Pitfalls and opportunities
16:40 – 17:00	AER1.2.8. Arghavan Rafiaei, Mohammad Reza Yazdani Analyzing amount of Heavy metals of Arsenic and Vanadium in the Soil of Esfahan Province	AQM1.2.8. Ivan Bešlić, Krešimir Šega, Ranka Godec, Silvije Davila Comparison of equivalence tests for PM samplers
17:00 – 17:20	AER1.2.9. M. Vizcarra Andreu Airborne Chemicals Over Rimac Basin (Lima - Perú) its significance and dispersion	AQM1.2.9. Sarath Guttikunda, Kalpana Balakrishnan, Giuseppe Calori An emissions inventory and air quality management for two megacities (Delhi and Chennai) of India
17:20 – 17:40	AER1.2.10. Jasmina Rinkovec, Silva Žužul, Gordana Pehcec, Vladimira Vađić Metal content of total deposited matter in Zagreb, Croatia	AQM1.2.10. Sule Kusdogan, Mine Sertsöz, Önder Altuntas Energy efficiency in rail systems and comparison between rail system in İstanbul and bus transportation in terms of carbondioxide (CO₂) emission
17:40 – 18:00	AER1.2.11. Fatma Öztürk, Ali İhsan İlhan, Tülay Balta, Gürdal Tuncel PMF analysis of rainwater data generated for Black Sea atmosphere	AQM1.2.11. Amir Gandomkar Study of effect of dust on the next phenomenon Qeshm Island tourism
19:00 – 22:00	<i>Reception at ITU - Taskisla Mid-Garden, Taksim</i>	

Tuesday - 11 September 2012

	ROOM A	ROOM B	ROOM C
08:50 – 10:40	AER -Aerosols	APM – Air Pollution Modeling	HEF – Health Effects
	Chair: Gürdal Tuncel	Chair:Sebnem Aksoyoglu	Chair: Andreas Skoloudis
08:50– 09:20 (Key Note Speakers)	AER2.1.12. Saritha Karnae, Kuruvilla John Source Apportionment of Particulate Matter Pollution in the Major Urban Areas of Texas	APM2.1.1. S. Aksoyoglu, J. Keller, G. Ciarelli, A. S. H. Prévôt Air quality modeling in Europe with various emission scenarios for 2020	HEF2.1.1. P. Kassomenos, A. Skouloudis Combining environment and health information systems for an integrated assessment on human health
09:20 – 09:40	AER2.1.13. Arslan Saral, Selami Demir, Demet Işık, Ayşe Akyildiz, S. Levent Kuzu, Gülten Güneş, Hakan Çelikten, Nihan Uygur Identification and apportionment of ozone forming potential in an urban atmosphere	APM2.1.2. Turenjai Doolgindachbaporn , Rungson Raksa, Natthida Binsomprasong, and Pairin Kok-oun A Comparison of Air Pollutants Concentration by a Gaussian Dispersion Model with Ambient Monitoring Data of Phoenix Pulp & Paper Public Company Limited, Thailand	HEF2.1.2. Jorge E. Pachon, Ted Russell, Jim Mulholland Human Health Benefits of Emission Controls using Single and Multipollutant Indicators of Mobile Sources
09:40 – 10:00	AER2.1.14. Sagar A. Marathe, Shankar Murthy, Ajay Deshpande Air quality of Mumbai with special reference to variation in ground level ozone concentrations	APM2.1.3. Sef van den Elshout, Karine Léger, Hermann Heich Common Air Quality Index – Update with PM_{2,5} and sensitivity analysis	HEF2.1.3. Sirajuddin M. Horaginamani, M. Ravichandran Health effects of urban air pollution in Tiruchi City,Central Tamil Nadu
10:00 – 10:20	AER2.1.15. U. Im, S. Incecik, M. Guler, S. Topcu, Y.S. Unal, O. Yenigun, T. Kindap, M.T. Odman, M. Tayanc, A. Tek Analysis of surface ozone and nitrogen oxides at urban, semi-urban and rural sites in Istanbul, Turkey	APM2.1.4. Mi Sook Lee, Hyo Choi Double compressions of atmospheric layer by geopotential tendency and vorticity and atmospheric boundary layer influenced upon abrupt high (PM₁, PM_{2,5} and PM₁₀) concentrations at a mountainous coastal city during a yellow dust period in October	HEF2.1.4. Mihriban Yılmaz Civan, Tolga Elbir, Remzi Seyfioğlu, Öznur Oğuz Kuntasal, Abdurrahman Bayram, Güray Doğan, Sema Yurdakul, Özgün Andiç, Aysen Müezzinoğlu, Sait Sofuoğlu, Hakan Pekey, Beyhan Pekey, Ayşe Bozlaker, Mustafa Odabaşı, Gürdal Tuncel Spatial Distribution of VOC Concentrations and Cancer Risk Around an Industrial Region at Western Turkey
10:20 – 10:40	AER2.1.16. Elif Özlü, Serpil Yenisoy Karakaş Investigation of Tropospheric Ozone Variation with Respect to Meteorological Parameters in Bolu	APM2.1.5. Fulya Evirgen, Alper Unal, Tayfun Kindap, Luca Pozzoli, Ziya Bahçivan, Gökhan İnalhan, Nizamettin Mangır Quantification of the Impact of Ataturk International Airport Emissions on Air Quality	
10:40 – 11:00	<i>Coffee Break</i>		

Tuesday - 11 September 2012

	ROOM A	ROOM B	ROOM C
11:00 – 12:40	AER - Aerosols	APM – Air Pollution Modeling	IAQ - Indoor Air Quality
	Chair: Mustafa Odabaşı	Chair: Roberto San Jose	Chair: Ying I. Tsai
11:00 – 11:20	AER2.1.17. Kwangsoo Kim, Jungo Park Dust and gaseous pollutants removal by aluminum plate coated with activated carbon in electrostatic precipitator	APM2.1.6. Roberto San José, Juan Luis Pérez, Marisol Callen, José Manuel López, Ana Mastral BaP simulations including gas/particle partitioning and degradation into the WRF-CMAQ system	IAQ2.1.1. Sanaz Lakestani, Söngül Acar Vaizoğlu, Bahar Güçiz Doğan, Çağatay Güler, Bülent Şekerel, Abbas Taner, Gülen Güllü Investigation of indoor air quality in children homes at prenatal and postnatal period
11:20 – 11:40	AER2.1.18. S. Davila, K. Šega, I. Bešlić The need for equivalence for PM samplers	APM2.1.7. Alan W. Gertler, Danny Moshe, Yinon Rudich Urban PM Source Apportionment Mapping using Microscopic Chemical Imaging	IAQ2.1.2. Omnya A. El-Batrawy Indoor Air Quality and Sick Building Syndrome
11:40 – 12:00	AER2.1.19. Selami Demir, Arslan Saral, Gülten Güneş, S. Levent Kuzu, Ayşe Akyıldız, Merve Berru Çan, Nihan Uygur Temperature and humidity dependence of diffusive uptake rates of BTEX compounds for passive samplers	APM2.1.8. Le Hoang Nghiem, Do Thuy Van A Model Based Study of Impact of Climate Change on Ground-Level Ozone Concentrations in Ho Chi Minh City, Viet Nam	IAQ2.1.3. Elham Aghlarai, Sanaz Lakestani Söngül Acar Vaizoğlu, Bahar Güçiz Doğan, Çağatay Güler, Bülent Şekerel, Abbas Taner, Gülen Güllü Levels of bioaerosols in indoor environments in Ankara
12:00 – 12:20	AER2.1.20. Sanja Potgieter-Vermaak, Andrew Brown, Judith Barrett, Rene Van Grieken Bioaccessibility of the inhalable fraction of urban road dust	APM2.1.9. Young Sunwoo, Young-Il Ma, Suhyang Kim, Areum Kim, Byung-Geun Kang, Ki-Ho Hong, Woo-Keun Lee Development and evaluation of VOCs speciation for air quality modeling in Korea	IAQ2.1.4. Bilge Karakaş, Çağatay Güler, Bahar Güçiz Doğan, Songül Acar Vaizoğlu, Abbas Taner, Bülent Enis Şekerel, Gülen Güllü Levels and Size Fractions of Fine Particulate Matter in Indoor and Outdoor Air Environments
12:20 – 12:40	AER2.1.21. Fikret R. Yıkılmaz, Seda Aslan Kılavuz, Zeynep Malkaz, Zuhâl Akyürek, Gürdal Tuncel Identification of potential source regions of sulphate ion determined in aerosol samples collected from central Anatolia, Turkey	APM2.1.10. Soo Min Choi, Hyo Choi Effect of a cavity generated by internal gravity waves in the lee side of mountain and nocturnal surface inversion layer on high particulate matter concentrations	
12:50 – 13:50	<i>Lunch</i>		

Tuesday - 11 September 2012

ROOM A

EFCA – Special Session – “Mediterranean Transboundary Pollution”

Chair: Giuseppe Fumarola Co-Chair: Vladimira Vadjic

14:00 – 16:05

14:00 – 14:05

Giuseppe Fumarola
Opening Address

14:05 – 14:35

EFCA2.2.1. George Kallos, Stavros Solomos, Jonilda Kushta, Christos Spyrou, Christina Kalogeri
Natural and anthropogenic aerosols in the Mediterranean Region and Middle East: Patterns and impacts

14:35 – 15:05

EFCA2.2.2. J. Hjorth, F. Cavalli, E. Cuccia, P. Kalabokas, S. Nava, P. Prati, C. Schembari, K. Velchev, F. Raes, F. Dentener
Shipborne observations of air pollutants over the Western Mediterranean

15:05 – 15:35

EFCA2.2.3. Alper Ünal, Burcu Kabataş, R. Brad Pierce, Tayfun Kindap
Quantification of Saharan Dust on Northwestern Anatolian Peninsula via RAQMS Modeling

15:35 – 16:05

EFCA2.2.4. Ana Alebic-Juretic
Air pollution in the Northern Adriatic coastal area- evidence of long-range transport

16:05 - 16:20

Coffee Break

16:20 – 16:40

EFCA2.2.5. Nicola Pirrone
Regional and global scale transport patterns of persistent atmospheric pollutants: the need for a global observation system

16:40 – 17:30

EFCA – Round Table Discussion
Chair: Thomas Reichert, President - EFCA
Co-Chair: Selahattin Incecik
Panelists: George Kallos, Jens Hjorth, Alper Unal, Ana Alebic-Juretic, Nicola Pirrone

18:30 - 22:45

Conference Dinner - Cemile Sultan Korusu

Wednesday - 12 September 2012

	ROOM A	ROOM B	ROOM C
08:50 – 10:40	AER - Aerosols	APM – Air Pollution Modeling	IAQ – Indoor Air Quality
	Chair: Aysen Müezzinoğlu	Chair: Mete Tayanç	Chair: R.H.M.Godoi
	08:50 – 09:20 (Keynote Speakers)	APM3.1.11. Doo Sun Choi and Hyo Choi Diurnal Cycle of Gaseous (CO, NO_x, O_x) and Particulate Matters (PM₁, PM_{2.5} and PM₁₀) Concentrations at a Korean Coastal City during the dust transportation from Gobi Desert in Mongolia	IAQ3.1.5. R. H. M. Godoi, Ana F. L.Godoi, M. G. Arantes, S.J. Gonçalves Junior, S. L. Paralovo, G. Borillo, R. C. Charello, D. Banhuk, N. A. Rosário Filho, M. T. Grassi, Carlos I. Yamamoto, S. Potgieter-Vermaak, G. G. Rotondo, K. De Wael, R. van Grieken Healthy environment – indoor air quality of Brazilian elementary schools nearby Petrochemical Industry
09:20 – 09:40	AER3.1.23. Vladimira Vadjjić, Silva Žužul, Jasmina Rinkovec and Gordana Pehrec Nickel levels in fine particles in Zagreb air	APM3.1.12. Fatima Khanum, Farooq Alam Ambient air quality of Lahore City	IAQ3.1.6. Md. Hamidur Rahman and A.K.M. Sadrul Islam CO₂ emissions from urban residential kitchen of Bangladesh- a CFD study
09:40 – 10:00	AER3.1.24. Oğuz Kuntasal, Sema Yurdakul, Deniz Karman, Daniel Wang, Gürdal Tuncel Determination of Emission Profiles of Volatile Organic Compounds in Ankara Atmosphere	APM3.1.13. Zuber Farooqui, Kuruvilla John Modeling the Impact of New Emission Sources from an Industrial-Port Complex on the Urban Ozone Air Quality in Corpus Christi, Texas	IAQ3.1.7. Sanja Potgieter-Vermaak, Anna Buczynska, Rene Van Grieken Indoor Air Quality during high pollution event days in Antwerp
10:00 – 10:20	AER3.1.25. T. M. Habeebullah, A. M. F. Mohamed Risk assessment of Poly Cyclic Aromatic Hydrocarbons in the Holy City of Makkah, Saudi Arabia	APM3.1.14. V. Lemaire, I. Coll; F. Couvidat; C. Seigneur; B. Bessagnet Modelling viewpoint on oligomerization	IAQ3.1.8. Dilşad Akal, Mihriban Yılmaz Civan, Sema Yurdakul, Hülya Yavuz Ersan Determination and evaluation of air pollutants in indoor air at chemical engineering department of Hacettepe University
10:20 – 10:40	AER3.1.26. Asude Hanedar, Kadir Alp, Burçak Kaynak, Edip Avşar Toxicity Evaluation and Source Apportionment of PAHs at three stations in Istanbul	APM3.1.15. Saikat Ghosh, Jhumoor Biswas, Sarath Guttikunda, Kevin Crist, S. Roychowdhury, Mugdha Nayak Assessment Of Impact Of Local and Regional Source Regions Using Clustering Technique On Particulate Pollution In New Delhi, India	IAQ3.1.9. Simge Taner, Beyhan Pekey, Hakan Pekey, Demet Arslanbaş Determination of Particulate Matter Concentrations in Different Microenvironments
10:40 – 11:00	<i>Coffee Break</i>		

Wednesday - 12 September 2012

<i>Wednesday - 12 September 2012</i>			
	ROOM A	ROOM B	ROOM C
11:00 – 12:40	AER - Aerosols Chair: Jorge E Pachon	APM – Air Pollution Modeling Chair: Hyo Choi	IAQ – Indoor Air Quality Chair:Orhan Yenigün
11:00 – 11:20	AER3.1.27. Jorge E. Pachon, Hugo Sarmiento, Francisco Molina, Carlos Riveros, Tomomi Hoshiko Exposure Assessment of Polycyclic Aromatic Hydrocarbons in Large Cities of Colombia	APM3.1.16. Hyo Choi, Mi Sook Lee Extreme PM₁₀, PM_{2.5} and PM₁ concentrations in the mountainous coastal basin affected by lee side trapping of dust particles transported from Nei-Mongo under cyclonic motion and shrunken atmospheric boundary layer	IAQ3.1.10. Sushil kumar Aggarwal, Alfred Lawrence, Nishat Fatima, Shalima Gupta, Rajkumar III-Effects of Indoor Air Pollution on Health of Lucknow Population
11:20 – 11:40	AER3.1.28. Eftade O.Gaga, Nesimi Akyol, Akif Arı, Özlem Özden, Melik Kara, Tuncay Döğeroğlu, Mustafa Odabaşı Chemical characterization of air samples and road dust in a roadway tunnel in Turkey: Determination of emission factors for vehicles	APM3.1.17. Özge Ünver, Cemil Kocar, Gürdal Tuncel Development of a numerical model to calculate radiological consequences of nuclear accidents	IAQ3.1.11. Sema Yurdakul, Gül Ayaklı, Mihriban Civan, Güray Doğan, Gürdal Tuncel Vertical and Temporal Variation of the Indoor Air Quality of the Working Offices in METU in Terms of Volatile Organic Compounds
11:40 – 12:00	AER3.1.29. Gordana Peh nec, Anica Šišović, Ivan Bešlić, Ivana Jakovljević, Vladimira Vadić Relationship between polycyclic aromatic hydrocarbons and other pollutants in the air of Zagreb, Croatia	APM3.1.18. Saeed Samadianfard, Habib Sayyadi, Reza Deleare-hasannia, Elena Agirre-Basurko Forecasting hourly ozone levels using gene expression programming and multi-layer perceptron models in Bilbao, Spain	IAQ3.1.12. Jamson Masih, Alfred J. Lawrence, Ajay Taneja Indoor/outdoor concentrations of Polycyclic Aromatic Hydrocarbons and Particulate Matter, seasonal variation in a semi arid region of rural India
12:00 – 12:20	AER3.1.30. Gul ten Gunes, Arslan Saral, Hakan Çelikten, Selami Demir, S. Levent Kuzu, Nihan Uygur Determination of gas/particle partitioning of polychlorinated dibenzo-p-dioxins and polychlorinated dibenzofurans in Istanbul atmosphere, Turkey	APM3.1.19. Gromov S.A., Gromov S.S., Zamyatina M.Yu Assessment of climatological potential of transboundary air pollution transport in Eastern Siberia and the Russian Far East	IAQ3.1.13. Ecem Demirel, Cihan Paloluoğlu, Hanefi Bayraktar, F. Sezer Turalioğlu Wet deposition of polycyclic aromatic hydrocarbons (PAHs) in Erzurum city atmosphere
12:20 – 12:40	AER3.1.31. Burak Öztaner, Serim Sakarya Evaluation of Three Interpolation Methods for Particulate Matter Pollution Distribution under the Influence of Inversion as a Case Study for İstanbul and İzmit	APM3.1.20. K.Onur Demirarslan, Şenay Çetin Doğruparmak, Aykan Karademir, Ertan Durmuşoğlu An investigation of emission distributions derived from point, spatial and linear sources by iscst-3 modelling in Korfez district	
12:50 – 13:50	<i>Lunch</i>		

Wednesday - 12 September 2012

<i>Wednesday - 12 September 2012</i>			
	ROOM A	ROOM B	ROOM C
14:00 – 15:40	AER – Aerosols	APM – Air Pollution Modeling	APE – Air Pollution & Energy
	Chair: Günter Baumbach	Chair: Elisa Sa	Chair: Alper Unal
	14:00 – 14:20	AER3.2.32. G.Baumbach, Ang, Keng Been; Bari, Aynul, Md.; Dreher, Werner; Vogt, Ulrich Effects of meteorological conditions, building density and edge vegetation on the PM concentrations at a high polluted traffic road	APM3.2.21. Elisa Sá, Helena Martins, Anabela Carvalho, Ana Isabel Miranda, Carlos Borrego WRF-CAMx application over an urban area: parameterizations sensitivity study for air quality purposes
14:20 – 14:40	AER3.2.33. Aşkın Birgül, Yücel Taşdemir Determination of Wet deposition Fluxes and Washout Ratios of PAHs in Bursa/Turkey	APM3.2.22. Saeed Samadianfard, Reza Deleare-hasannia, Gholamreza Rowshan Inter comparison of air quality data using gene expression programming and multiple linear regression and forecasting air pollutant concentrations in Tehran, Iran	APE3.1.2. Ö. Parlak, N. E. Machin, A. Ersöz Simulation of fuel processors to produce hydrogen in fuel cell applications
14:40 – 15:00	AER3.2.34. Krešimir Šega, Ivan Bešlić, Silvija Davila Mass concentrations of PM1 particle fraction in Zagreb air	APM3.2.23. I. Coll, G. Siour, A. Colette, B. Bessagnet Megacities and pollution plumes	APE3.1.3. Betül Özer, Erdem Gorgun, Selahattin Incecik The Scenario Analysis on CO₂ Emission Mitigation Potential in Turkish Electricity Sector: 2006-2030
15:00 – 15:20	AER3.2.35. Seden Baltacıbaşı, Alper Ünal, Tayfun Kindap, Mehmet Karaca Spatio-temporal Analysis of PM10 Concentration in Turkey	APM3.2.24. Adriana Coman, Benjamin Gaubert, Gilles Foret, Matthias Beekmann, Maxim Eremenko, Gaëlle Dufour, Anthony Ung, Gilles Bergametti, Jean-Marie Flaud Analysis of European ozone distribution using a joint assimilation system using ground and satellite measurements with a Regional CTM	
15:20 – 15:40	AER3.2.36. Hyo Choi Fractional analysis of PM₁₀, PM_{2.5} and PM₁ concentrations and their correlation at a Korean eastern coastal city under the dust transportation from the northern China in May of 2007	APM3.2.25. Hakki Baltacı, Tayfun Kindap, Alper Unal, Seden Baltacıbaşı, Luca Pozzoli, Selahattin Incecik, Mehmet Karaca The Effects of Synoptic Circulation Types on PM₁₀ concentrations in the Northwestern of Turkey	
15:40 – 16:00	<i>Coffee Break</i>		

Wednesday - 12 September 2012

15:40 - 17:30

POSTER SESSION

POS3.2.1. Ho-yong Shin, Shin-Do Kim, Sung-Joon Bae, In Yeong Jeong
Seasonal variation of Carbon Component in the Subway's Particulate Matter (PM)

POS3.2.2. Fusun Uysal, Asude Hanedar
The Application of ISO 14064 in Turkey

POS3.2.3. Do Yeon Hwang, Shin Do Kim, Jai-Young Lee, Heekwan Lee, Dong Sul Kim
A Study on the components of Inorganic elements in the Subway's Particulate Matters

POS3.2.4. Eun Hee Jang, Shin Do Kim, Heekwan Lee, Gong-Unn Kang, In Yeong Jeong
A Study on the Ionic Components in the Subway's Particulate Matter

POS3.2.5. Jong-Ho Kim, Hyeok-Gyu Kim, Sang-Hyun Pang, Sung-Won Lee
Removal of Particulate Matter in a Wet Scrubber using Electrospray

POS3.2.6. Jin-Sik Kim, Shin-Do Kim
An Energy Usage Analysis of the GHG Emission by Source Inventory Data in Seoul

POS3.2.7. Kyoung Bin Lee, Shin Do Kim, Heekwan Lee, Sung-Joon Bae, In Yeong Jeong, Jung Geun Han
A Study on the Estimation of the Natural Ventilation by Train-Induced Wind in the Subway Tunnel

POS3.2.8. Seong-Kyu Park, Sang-Jin Choi, Yong-Il Lee, Ui-Hyun Hwang, Tae-sik Kim, Jeong-Joo Lee
Characteristics of Air Pollutants Emission from Biomass Burning in Korea : mainly Commercial Charcoal Burner

POS3.2.9. Ying I. Tsai, Khajornsak Sopajaree, Auranee Chotruksa, Hsin-Ching Wu, Su-Ching Kuo
Impact of biomass burning associated with anhydrosugars and carboxylic acids in ambient aerosol on Chiang Mai (Thailand) air quality

POS3.2.10. Yi-Tun Wang, Pei-Yi Kung, Chien-Jung Lin, Ying I. Tsai, Yun-Hwei Shen, Shaw-Bing Wen
Bioaerosol microbial activity in indoor environments using ATP bioluminescence

POS3.2.11. Fatma Öztürk, Ali İhsan İlhan, Tülay Balta, Gürdal Tuncel
A Multi-Site Study of Rainwater Chemistry within Turkey

POS3.2.12. Seda Özcan, Kübra Albayrak, Fatma Öztürk
A Comparative Study of Air Quality Parameters Monitored at Six Different Stations in Turkey

POS3.2.13. Sibel Cukurluoglu
Characterization of wet deposition in Denizli, Turkey

POS3.2.14. Nsadia Sharifzadeh, Bita Ayati, Hossein Ganjidoust
Use of PHAST, CIRRUS and SHELL FRED softwares in H₂S and SO₂ Gas Prediction for Oil & Gas Industries Emissions

POS3.2.15. S. Sinan Keskin, H. Merve Kuş
Heavy metal characterization of road dust and possible contribution to PM

POS3.2.16. C. A. Alberti, B. Levy Mendoza and C. Rudamas
Effects of a cold front on concentrations of O₃ in San Salvador

POS3.2.17. Zeynep Malkaz, Seda Aslan, Gürdal Tuncel
Variation of SO₄²⁻ source regions affecting SO₄²⁻ concentrations in the Eastern Mediterranean using Regions of Influence approach

POS3.2.18. Celia Sayama, José Manoel dos Reis Neto, Sanja Potgieter-Vermaak, Rene van Grieken, Ricardo H. M. Godoi Environmental Asbestos Aerosol in specific areas of Paraná State - Brazil
POS3.2.19. Ana F. L.Godoi, Lis C de Quadros, Manoela G. Arantes, Marcelo L Noriller, Marco T. Grassi, Carlos I. Yamamoto, Sanja Potgieter-Vermaak, Giuliana G. Rotondo, Karolien De Wael, Rene van Grieken, Ricardo H. M. Godoi Pollutant characterization in some bus stations at Curitiba, Paraná, Brazil
POS3.2.20. Arslan Saral, Nihan Uygur, Selami Demir, S. Levent Kuzu, Gülten Güneş Determining the impact of traffic on aerosol composition in Istanbul
POS3.2.21. Davolos, D., Fanizza, C., Pietrangeli, B. Molecular identification and characterization of airborne microfungi recovered from indoor environment
POS3.2.22. Gordana Marović, Krešimir Šega, Ivan Bešlić and Jasminka Senčar Radioactivity in the Air of Zagreb in the Year 2011
POS3.2.23. Costas J. Saitanis, Fitzgerald L. Booker, Erin Silva, Kent O. Burkey Tropospheric ozone biomonitoring with snap bean plants in Raleigh, North Carolina, USA
POS3.2.24. Mohammad Reza Yazdani, Arghavan Rafiaei Evaluating air temperature changes due to increasing CO ₂ in Isfahan province till 2050
POS3.2.25. Sylvester John Chaisamba Meteorological/climatological footprints in observations of atmospheric surface ozone at the Cape Point Global Atmosphere Watch (GAW) station
POS3.2.26. C.Kahya, S.Incecik, S.Topcu, H.Toros, A.Deniz, Ö.Çapraz Teleconnection Indices' Effect on Urban Pollutants in Istanbul
POS3.2.27. Entisar Al Katheeri, Fadi Al Jallad, Muthanna Al Omar Improvement in gaseous pollutants and the impact of natural phenomenon on PM ₁₀ in rural Area - United Arab Emirates
POS3.2.28. Zeliha Gemici, Onur Kale Air quality applications in process of EU adaptation
POS3.2.29. Jukka-Pekka Jalkanen, Hüseyin Toros, Lasse Johansson, Jaakko Kukkonen, Alexander Baklanov, Selahattin Incecik, Mikhail Sofiev Ship Emissions in the Istanbul Area
POS3.2.30. Majid Ownegh Numerical modeling of air pollution potential hazard at land use planning scale in Golestan Province, southeast Caspian Sea, Iran
POS3.2.31. N. Mansouri Risk Evaluation of Exposure to CO in Urban Streets, Tehran, Iran
POS3.2.32. Hosnia M Abdallah Analytical study of climate change policies in the Arab world
POS3.2.33. M. Driss, M. A. Hamadouche, D.E Chaouch, H. A Azzedine, R. Oulha Methodology for assessing pollutant emissions from road transport in the framework of sustainable development (Case of Mascara city in North West of Algeria)
POS3.2.34. A. Deniz, S. Tilev Tanrıöver, A. Kahraman, S. Incecik, H. Toros, H. M. Celebi, A. Ozturk, I. Sezen Meteorological modeling of the PM ₁₀ episode in Kağıthane-Istanbul under very stable conditions for November 6-9, 2010 episode
POS3.2.35. Fatma Yazıcı, Selahattin Incecik, Tayfun Kındap, Berna Ataksor, Nesli Albayrak, Ayhan Akkaş, Volkan Simsek Radon in ITU
POS3.2.36. Mustafa Coskun, Hüseyin Toros, Ali Deniz, Ali Ozturk, Selahattin Incecik Volatile Organic Component Analysis in Kağıthane
POS3.2.37. Yilmaz Acar, Serpil Yağan, Mithat Ekici The vertical distribution of ozone over Ankara for 2007-2011 period according to Brewer Spectrophotometer data
POS3.2.38. Gül Ayaklı, Gürdal Tuncel, Ali İhsan İlhan, Tülay Balta, Fatma Öztürk Chemical composition of precipitation at different parts of Turkey

Thursday - 13 September 2012

	ROOM A	ROOM B	ROOM C
08:50 – 10:40	AER – Aerosols	EMS – Emission Studies	IFV – Impacts on Forest & Vegetation
	Chair: H-G Mücke	Chair: Aysel Atımtay	Chair: Tuncay Döğeroğlu
08:50 – 09:20 (Keynote Speakers)	AER4.1.37. H.-G. Mücke, S. Wagener, K.-C. Bergmann Campaign of particulate matter and pollen measurements in Berlin	EMS4.1.1. Willard J. Smith Advantages & Benefits of Using Open-Path Differential Optical Adsorption Spectroscopy (DOAS) In Ambient Air & Source Emission Monitoring Programs	IFV4.1.1. Roberto San José, Juan Luis Pérez, R.M. González An operational information system for wildland fires forecast over Spain with WRF-FIRE
09:20 – 09:40	AER4.1.38. Nur Banu Öztaş, Semra G. Tuncel, Gurdal Tuncel Size dependent solubilities of elements in Eastern Mediterranean aerosol	EMS4.1.2. Kadir Alp, Ümmügülsüm Alyüz Industrial Emission Inventory Compilation for Turkey	IFV4.1.2. Doğan Kantarcı, Burcu Onat, Ülkü Alver Şahin, Serdar Aydın The Effects of the Hamitabat-Lüleburgaz Power Plant NOx Emissions
09:40 – 10:00	AER4.1.39. Mirjana Čačković, Krešimir Šega, Vladimira Vađić, Ivan Bešlić Mass concentrations of major acidic species in PM₁₀ particle fraction measured at two different sampling sites in Zagreb air, Croatia	EMS4.1.3. Luis A. Cifuentes, Cristóbal de Maza, Francisco Donoso, Viviana Flores, María José Hernández Defining Socially Optimal Emission Standards for Thermal Power Plants in Chile	IFV4.1.3. Ben Ahmed Chedlia, Sellami Imene, Ben Abdullah Ferjani Responses of adult olive tree to air fluoride pollution under arid climate in the south of Tunisia: oil quality characteristics and antioxidant defense system
10:00 – 10:20	AER4.1.40. Gulden Gunes, Arslan Saral, Hakan Celikten, S.Levent Kuzu, Selami Demir, Nihan Uygur Investigation of temporal and spatial variation of atmospheric concentration of Polychlorinated dibenzo-p-dioxins and polychlorinated dibenzofurans in Istanbul	EMS4.1.4. Ashutosh Atray Paper On Risk Assessment Methodology to Minimise the Impact Of Pollution & Reducing the Road Crashes	IFV4.1.4. Güray Doğan, Claire C. Austin Determination of sources of particulate matter in a forestry based industry city in Canada
10:20 – 10:40	AER4.1.41. Gizem Karaca, Yücel Taşdemir Evaporation of polycyclic aromatic hydrocarbons (PAHs) from the municipal sludges	EMS4.1.5. Ali Can, Aysel T. Atımtay Spatial Distribution of CO₂ Emissions in Turkey on District and Province Basis	IFV4.1.5. Nesrine Rhimi, Mouhiba Nasri Ayachi, Ben Ahmed Chedlia, Ferjani Ben Abdallah Morphological and anatomical responses of pear and almond trees exposed to air fluoride pollution
10:40 – 11:00	<i>Coffee Break</i>		

Thursday - 13 September 2012

<i>Thursday - 13 September 2012</i>			
	ROOM A	ROOM B	ROOM C
11:00 – 12:20	AER - Aerosols	EMS – Emission Studies	IFV – Impacts on Forest & Vegetation
	Chair: Vladimira Vadjic	Chair: Ulas İm	Chair: En-Jang Sun
11:00 – 11:20	AER4.1.42. Nihan Uygur, Arslan Saral, Selami Demir, S. Levent Kuzu, Gülten Güneş Variations in chemical compositions of the aerosols in Istanbul	EMS4.1.6. Baptiste Perrissin Fabert, Etienne Espagne, Antonin Pottier The “doomsday” effect How the window of opportunity for political action on emission reductions is closing	IFV4.1.6. Sellami Imène, Ben Ahmed Chedlia, Ben Abdallah Ferjani Effects of air pollution on fluoride accumulation pattern in <i>Rosa damascena</i> L. cultivated in the south of Tunisia
11:20 – 11:40	AER4.1.43. Deniz Derya Genç Tokgöz, Gürdal Tuncel Temporal variation in chemical composition of lower tropospheric aerosols at northwestern Turkey	EMS4.1.7. Deniz Sarı, Abdurrahman Bayram Inventory of air pollutant emissions from domestic heating in residential areas of İzmir	IFV4.1.7. En-Jang Sun, W. J. Swei, Che-Ming Chang Measuring the Uptake Rates of Ethylene by 23 Plant Species in Taiwan
11:40 – 12:00	AER4.1.44. Ilker Balcılar, Abdullah Zararsız, Yakup Kalaycı, Güray Dogan, Gürdal Tuncel Chemical composition of Eastern Black Sea Aerosol	EMS4.1.8. Richa Bhattarai, Atindra Sapkota, Sandeep Shrestha, Ramesh Kumar Maskey Comparative study of briquettes made from different raw materials on the basis of emission	IFV4.1.8. Mohamed Zouari, Chedlia Ben Ahmed, Bechir Ben Rouina, Chiraz Jomni, Nacim Zouari, Ferjani Ben Abdallah Responses of young olive tree (<i>Olea europaea</i> L. cv Chemlali) to different soil NaF levels under natural environmental conditions in the south of Tunisia
12:00 – 12:20	AER4.1.45. P. Avino, M. Manigrasso, C. Fanizza, G. Capannesi, A. Rosada, G. Buonanno, L. Stabile, M.V. Russo Chemical-Physical Characterization of Urban Particulate Matter Ranging between 10 nm and 10 ?	EMS4.1.9. U. İm, M. Kanakidou Impact of regional anthropogenic emissions and mitigation on air quality in the East Mediterranean	
12:20 – 12:40	AER4.1.46. Melik Kara, Yetkin Dumanoğlu, Hasan Altıok, Tolga Elbir, Mustafa Odabaşı, Abdurrahman Bayram Spatial and temporal variations of trace element deposition fluxes in Aliaga industrial region, Turkey		
12:30 – 13:50	<i>Lunch</i>		

Thursday - 13 September 2012

ROOM A

IUAPPA – Special Session – “NEW ISSUES IN ATMOSPHERIC SCIENCE AND POLICY”

14:00 – 16:00

Chairperson: Hanlie Liebenberg-Enslin, IUAPPA President

14:00 – 14:30

**IUAPPA4.2.1. Volodymir Denkyne
New Trends and Issues in Atmospheric Policy - An Overview**

14:30 – 15:00

**IUAPPA4.2.2. John Murlis
Biofuels and Sustainability - Update on Recent International Assessments**

15:00 – 15:30

**IUAPPA4.2.3. Luisa Molina
Delivering Clean Air and Climate Benefits Together – Opportunities for Developing Countries**

15:30 – 16:00

**IUAPPA4.2.4. Richard Mills
One Atmosphere: Strengthening International Co-operation on Air Pollution: IUAPPA’s Proposals**

16:00 – 16:30

Coffee Break

16:30 – 17:30

Piano Recital - Closing Ceremony

10.09 / Monday	11.09 / Tuesday	12.09 / Wednesday	13.09 / Thursday
08:00 – 09:30 Registration	08:00 – 08:50 Registration	08:00 – 08:50 Registration	08:00 – 08:50 Registration
09:30 – 10:15 Opening Ceremony	08:50 – 10:40 Room A: AER Room B: APM Room C: HEF	08:50 – 10:40 Room A: AER Room B: APM Room C: IAQ	08:50 – 10:40 Room A: AER Room B: EMS Room C: IFV
10:15 – 10:45 Coffee Break	10:40 – 11:00 Coffee Break		
10:45 – 12:45 PLS – Plenary Session	11:00 – 12:40 Room A: AER Room B: APM Room C: IAQ	11:00 – 12:40 Room A: AER Room B: APM Room C: IAQ	11:00 – 12:20 Room A: AER Room B: EMS Room C: IFV
12:50 – 13:50 Lunch			
14:00-16:00 Room A: AER Room B: AQM	14:00 – 16:40 EFCA – Special Session	14:00 – 15:40 Room A: AER Room B: APM Room C: APE	14:00 – 16:00 IUAPPA – Special Session
16:00 – 16:20 Coffee Break	16:05 – 16:20 Coffee Break	15:40 – 16:00 Coffee Break	16:00 – 16:30 Coffee Break
16:20 – 18:00 Room A: AER Room B: AQM	16:40 – 17:30 EFCA – Round Table Discussion	15:40 – 17:30 Poster Session	16:30 – 17:30 Piano Recital & Closing Ceremony
19:00 – 22:00 Welcome Reception	18:30 – 22:45 Conference Dinner		

