Poster Session (P1)

8/27/2007 12:00 PM ~ 8/27/2007 5:00 PM

Topic 5 Air Pollution and Atmospheric Aerosols

Paper #	Paper Title & Authors	Post #
001	**Climate Change Threatening Earth – Plan Better Air Quality Management System** H.K. Gupta, Devi Ahilya University; K. Gupta, C.S.J.M. University; A.K. Singh, Devi Ahilya University.	**1-1**
037	**Analysis of Aerosol Impacts on the Climate in Asia Using GCM** M. Mukai, Center for Climate System Research, The university of Tokyo	**1-2**
049	**Relationship between Ground-Level $PM_{2.5}$ and Satellite-Derived Aerosol Optical Thickness** S. Mukai, I. Sano, Faculty of Science & Technology, Kinki University; M. Mukai, CCSR, University of Tokyo.	**1-3**
056	**Dicarboxylic Acids, Ketocarboxylic Acids and Dicarbonyls in the Urban Atmosphere of China** S.C. Lee, K.F. Ho, Department of Civil and Structural Engineering, The Hong Kong Polytechnic University; J.J. Cao, SKLLQG, Institute of Earth Environment, Chinese Academy of Sciences; K. Kawamura, Institute of Low Temperature Science, Hokkaido University.	**1-4**
057	**Emissions of Gaseous and Particulate Phases Polycyclic Aromatic Hydrocarbon (PAH) in Shing Mun Tunnel, Hong Kong** K.F. Ho, S.C. Lee, Department of Civil and Structural Engineering, The Hong Kong Polytechnic University; Steven S.H. Ho, Division of Atmospheric Sciences, Desert Research Institute.	**1-5**
086	**Aerosol Size Distributions at Two Locations in the Southern Indian Ocean** C.G. Deshpande, V. Pant, A.K. Kamra, Indian Institute of Tropical Meteorology.	**1-6**
103	**Size Distributions of Aerosol Number Concentrations at an Urban Site New Delhi, India** Y.N. Ahammed, B.C. Arya, A. Kumar, P.R. Sinha, D.K. Shukla, Radio & Atmospheric Sciences Division, National Physical Laboratory.	**1-7**
106	Changes in Column AOD and Ozone Due to Fire Crackers at Varanasi: A Case Study M.K. Srivastava, R. Singh, CAPSS, Bose Institute; S. Singh, RASD, National Physical Laboratory; R.K. Mall, Deptt. of Geophysics, Banaras Hindu University	**1-8**
108	**Air Quality Derivation Utilizing Landsat TM Image over Penang, Malaysia** H.S. Lim, M.Z. MatJafri, K. Abdullah, N.M. Saleh, School of Physics, Universiti Sains Malaysia.	**1-9**
115	**Regional Features of Atmospheric Aerosols at Pune** G.R.Aher, S.D. More, V.V. Agashe, Department of Environmental Sciences, University of Pune; N.S. Singh, Indian Institute Astrophysics.	**1-10**
125	**Sampling and Analysis of Atmospheric Ultrafine Particles at the Upper and Lower Floors of a High-Rise Building in the Urban Area** K. Sekiguchi, S. Kudo, M. Yasuhara, K. Sakamoto, Graduate School of Science and Engineering, Saitama University; Y. Otani, Graduate School of Natural Science and Technology, Kanazawa University.	**1-11**
126	**Monitoring of Black Carbon Distribution on Roads in Seoul** S.B. Lee, D.S. Byun, H.C. Jin, G.N. Bae, Hazardous Substances Research Center, Korea Institute of Science and Technology.	**1-12**
133	**Study of Turbidity Parameters at Tropical Station Pune** S. Singh, Indian Institute of Astrophysics; G.R. Aher, S.D. More, V.V. Agashe, Department of Environmental Sciences, University of Pune	**1-13**
134	**Size Distributions of Aliphatic Alkanes and Polycyclic Aromatic**	**1-14**

Topic 14 Air Pollution

Paper #	Paper Title & Authors	Post #
010	**CO_2 Absorption into Mixed Aqueous Solutions of 2-Amino-2-Methy-1-Propanol and Piperazine in Hollow Fiber Membrane Contactor** J.-S. Lin, Y.-T. Kuo, Department of Natural Resources, Chinese Culture University; S.-S. Lin, Department of Chemical Engineering, Nanya Institude of Technology; K.-L. Tung, Department of Chemical Engineering and R&D center for Membrane Technology, Chung Yuan Christian University; M.-H. Li, Department of Chemical Engineering, Chung Yuan Christian University; P.-C. Chiang, Graduate Institute of Environmental Engineering, National Taiwan University.	**1-37**
029	**Characteristics of Air Pollutant Emission Using Liquefied Petroleum Gas As an Alternative Fuel** S.M. Chien, M.T. Cheng, Department of Environmental Engineering, National Chung Hsing University; H.H. Yang, Department of Environmental Engineering and Management, Chaoyang University of Technology; C.Y. Peng, Graduate Institute of Occupational Safety and Health, Kaohsiung Medical University; J.S.C. Chuang, Department of Air Quality Protection and Noise Control, Environmental Protection Administration.	**1-38**
076	**The Component Analysis and Emission Evaluation of Air Pollutants from the Joss Paper and Incense Burning** W.C. Hung, W.C. Chou, H. Chu, Department of Environmental Engineering, Cheng Kung University.	**1-39**
092	**Applying WRF/Chem Model to Simulating Ozone Concentration of Southern Taiwan** C.-H. Hung, K.C. Lo, Department of Safety Health and Environmental Engineering, National Kaohsiung First University of Science and Technology.	**1-40**
118	**The Study of Operation Parameters on Heavy and Alkali Metals Partition from Flue Gases** J. Han, College of Chemical Engineering and Technology, Wuhan University of Science and Technology.	**1-41**
129	**Aerosol Driven NO_x Reduction Process Assisted with Ultraviolet Irradiation** D. Azuma, Y. Emi, K. Mitsuyoshi, H. Takano, M. Itoh, Department of Chemical Engineering and Materials Science, Faculty of Engineering, Doshisha University.	**1-42**
162	**Surface Levels Ozone: Weekend/Weekdays Differences in Urban Environment** A. Maurya, P.R. Salve, S.R. Wate, Environmental Impact and Risk Assessment Division, National Environmental Engineering Research Institute.	**1-43**
183	**The VOCs Found in the Nearby Environment of Heavily Polluted Chuen-Tsen River in Taiwan** D.F. Juang, Department of Healthcare Administration, Mei-Ho Institute of Technology; C.S. Yuan, W.C. Chen, Institute of Environmental Engineering, National Sun Yat-sen University.	**1-44**

Poster Session (P2)

8/28/2007 8:30 AM ~ 8/28/2007 1:00 PM

Topic 8 Aerosol Measurement and Instrumental Analysis

Paper #	Paper Title & Authors	Post #
015	**Size Distribution of Suspended Particles Emitted from Road Dust Sweeping Process** H.Y. Lin, C.S. Yuan, Institute of Environmental Engineering, National Sun	**2-1**

	M.T. Hu, S.J. Chen, K.L. Huang, J.H. Tsai, Department of Environmental Science and Engineering, National Pingtung University of Science & Technology; W.Y. Lin, Institute of Environmental Planning and Management, National Taipei University of Technology.	
273	**Development and Performance Evaluation of Soft X-Ray Chargers** Y.M. Kim, D.S. Kim, J.U. Yoon, Y.T. Kwon, R&D Center, Hyundai Calibration & Certification Technologies Co.; K.H. Ahn, Department of Mechanical Engineering, Hanyang University.	**2-17**
307	**From Cloud and Tropospheric Aerosol Observations in Beijing to Indoor Aerosol Mapping, Some Recent Innovative Applications of the EZ AEROSOL LIDAR™ System** B. Guinot, Leosphere SAS.	**2-18**
309	**Iron in Aerosols Investigated by Electron Paramagnetic Resonance** H. Laversin, D. Hleis, D. Courcot, F. Ledoux, L. Courcot, E.A. Zhilinskaya, A. Aboukaïs, Laboratoire de Catalyse et Environnement, Université du Littoral Côte d'Opale.	**2-19**
354	**Identification of Oxalic Acid: Comparison of GC-MS and IC Measurements** L.M. Yang, L.E. Yu, Division of Environmental Science and Engineering, National University of Singapore.	**2-20**

Topic 12 Nanoparticle Synthesis and Applications

Paper #	Paper Title & Authors	Post #
004	**Iron Doped Shell Shaped Carbon Nanoparticles** S. Yang, P.V. Pikhitsa, D. Kim, M. Choi, National CRI Center for Nano Particle Control, School of Mechanical and Aerospace Engineering, Seoul National University.	**2-21**
041	**Selective Catalytic Oxidation of Ammonia to Nitrogen on Nanostructured Copper-Lanthanum Catalysts in Gaseous Stream** C.M. Hung, Department of Industry Engineering and Management, Yung-Ta Institute of Technology & Commerce.	**2-22**
042	**Enhanced Decomposition of NO on Nanostructured CuO/TiO_2 Catalysts in Gaseous Stream** C.M. Hung, Department of Industry Engineering and Management, Yung-Ta Institute of Technology & Commerce.	**2-23**
062	**Novel Route to Phosphor Nanoparticle Synthesis via Spray Pyrolysis with Polymer Assisted Heat Treatment** W.-N. Wang, S.-G. Kim, Department of Chemical Engineering, School of Engineering, Hiroshima University; I.W. Lenggoro, K. Okuyama, Institute of Symbiotic Science and Technology, Tokyo University of Agriculture and Technology.	**2-24**
074	**Control of Particle Size of Y_2O_3 Particles Prepared By Emulsion Flame Spray Pyrolysis** S.A. Song, S.B. Park, Department of Chemical and Biomolecular Engineering, Korea Advanced Institute of Science and Technology; Y.S. Chung, Small Business Corporation; K.Y. Jung, Kongju National University.	**2-25**
087	**Synthesis and Characterization of Mesoporous Silica Nanosphere Functionalized with Ferrocene Derivatives** E.J. Kwon, T.G. Lee, Department of Chemical Engineering, Yonsei University.	**2-26**
100	**Preparation and Characterization of Poly(Nipam) Derived Hollow Magnetic Silica Microsphere** S.H. Park, T.G. Lee, Department of Chemical Engineering, Yonsei University.	**2-27**
169	**Nano-Composite TiO_2/V_2O_5 Core-Shell Particle Synthesis by an Atmospheric Diffusion Flame** K.H. Ahn, H. Chung, W.G. Cho, Department of Mechanical Engineering, Hanyang University; G.N. Bae, Hazardous Substances Research Center, Korea	**2-28**

	Institute of Science and Technology.	
176	**Photocatalytic Activity of TiO_2 Thin Films Coated on Glass Fiber Air Filter Prepared by Reverse Micellar Method** W.K. Ho, Frank S. C. Lee, Department of Civil and Structural Engineering, Research Center for Environmental Technology and Management, The Hong Kong Polytechnic University.	**2-29**
245	**Emission of Nanoparticles from Nanopowderers** C.J. Tsai, M.L. Leu, H. Wu, Institute of Environmental Engineering, National Chiao Tung University.	**2-30**
247	**The Study of the Nanometric Particle Filtration Performance with Fabric Filter** Y.-I. Wu, Department of Environmental Engineering, National I-Lan University; C.-T. Chang, Department of Environmental Engineering, National I-Lan University	**2-31**

Topic 14 Air Pollution

Paper #	Paper Title & Authors	Post #
185	**Measurements of Surface Ozone in Urban and Rural Site of Tropical India** S.B. Debaje, Indian Institute of Tropical Meteorology.	**2-32**
202	**Characteristics of PAH Emissions from Thermal Treatment of Waste Hydrodesulfurization Catalysts** Y.-C. Lai, W.-J. Lee, I-C. Chou, Department of Environmental Engineering, National Cheng Kung University, Sustainable Environment Research Center, National Cheng Kung University; K.-L. Huang, Department of Environmental Engineering and Science, National Pingtung University of Science and Technology; S.-I Shih, Department of Environmental Engineering, Kun Shan University; H.-H. Huang, Department of Electrical Engineering, Cheng-Shiu University.	**2-33**
203	**Distributions of Polychlorinated Dibenzo-p-Dioxins and Dibenzofurans in a EAF Dust Treatment Plant** H.-W. Li, Y.-L. Wu, W.-J. Lee, Department of Environmental Engineering, National Cheng Kung University, Sustainable Environment Research Center, National Cheng Kung University; G.-P. Chang-Chien, Department of Chemical and Materials Engineering, Cheng Shiu University.	**2-34**
270	**High-Temperature Cleaning of Sulfur Containing Coal Gasification Gas by Supported Metal Oxides** C.Y. Huang, Y.H. Chang, H. Chu, T.K. Tseng, J.B. Wang, Department of Environmental Engineering, National Cheng Kung University.	**2-35**
281	**Effect of PAH Emission from 4-Stroke Motorcycle Fueled Gasoline with Isooctane** H.H. Mi, C.H. Shih, C.D. Peng, Department of Environmental Engineering and Science, Chia Nan University of Pharmacy & Science.	**2-36**
284	**Impact of Biomass Open Burning on the Ambient Air Level of Polychlorinated Dibenzo-p-Dioxins and Dibenzofurans** S.-I Shih, L.-F. Lin, Department of Environmental Engineering, Kun Shan University; Jen-Wei Su[b,c], Department of Environmental Engineering, National Cheng Kung University, Sustainable Environment Research Center, National Cheng Kung University; L.-C. Wang, G.-P. Chang-Chien, Department of Chemical and Material Engineering, Cheng Shiu University.	**2-37**
285	**Measurement of Nitrous Acid in an Indoor Residential Environment Using an In-Situ Analyzer** S.S. Park, S.Y. Cho, S.J. Kim, Department of Environmental Engineering, Chonnam National University; J.H. Hong, J.H. Lee, Y.J. Kim, Department of Environmental Science and Engineering, Gwangju Institute of Science and	**2-38**

	Technology (GIST).	
291	**Plasma-Assisted Simultaneous Conversion of SO_2 and NO at Oxygen-Controlled Condition** C.-H. Tsai, C.-N. Liao, Department of Chemical and Material Engineering, National Kaohsiung University of Applied Sciences; Y.-F. Wang, Department of Bioenvironmental Engineering, Chung Yuan Christian University; W.-J. Lee, Department of Environmental Engineering, National Cheng Kung University.	**2-39**
305	**Improvement of Stairmand High Efficiency Cyclone** C.W. Hsu, S.H. Huang, C.C. Chen, College of Public Health, National Taiwan University.	**2-40**
312	**Pah Emission from the Electric Melting Furnace during the Treatment of Spent Zinc Manganese Batteries** L.-T. Hsieh, H.-C. Chang, Department of Environmental Engineering and Science, National Pingtung University of Science and Technology; Y.-F. Wang, Department of Bioenvironmental Engineering, Chung Yuan Christian University; H.-H. Yang, Department of Environmental Engineering and Management, Chaoyang University of Technology.	**2-41**
327	**Investigation on Taipei Atmospheric Visibility by an Image Processor** C.H. Luo, Department of Environmental Engineering, Hungkuang University; C. S. Yuan, Institute of Environmental Engineering, National Sun Yat-Sen University.	**2-42**
329	**Analysis on NO and SO_2 Removal and Particle Growth in the Dielectric Barrier Discharge Process Combined with Photocatalysis** A. Nasonova, D.-J. Kim, K.-S. Kim, Department of Chemical Engineering, Kangwon National University.	**2-43**
360	**R&D of High Temperature Gas Cleanup by Using Moving Granular Bed Filter** C.-Y. Peng, Energy & Environment Laboratories, Industrial Technology Research Institute.	**2-44**

Poster Session (P3)

8/28/2007 1:00 PM ~ 8/28/2007 6:00 PM

Topic 1 Asian Dust Storm

Paper #	Paper Title & Authors	Post #
175	**Correlation of Atmospheric Aerosols in Taiwan with Sands/Soils Originated at Northern China during ACS Events** C.S. Yuan, Institute of Environmental Engineering, National Sun Yat-sen University, School of municipal & environmental engineering, Harbin Institute of Technology; Y.C. Liu, Institute of Environmental Engineering, National Sun Yat-sen University; C.X. Hai, M. Zhao, College of Geographical Sciences, Inner-Mongolia Normal University.	**3-1**
193	**Characteristics of Size-Resolved Aerosol during the Asian Dust Storm Events Using Pixe Analysis Observed at the National Park Area of Gyeongju, Korea** K.W. Kim, Department of Environmental Engineering, Gyeongju University.	**3-2**
287	**Chemical Composition of $PM_{2.5}$ Aerosols Observed at an Urban Site in Korea during the ACE-Asia Campaign** S.S. Park, Department of Environmental Engineering, Chonnam National University; Y. J. Kim, Advanced Environmental Monitoring Research Center (ADEMRC), Gwangju Institute of Science and Technology.	**3-3**

Topic 2 Aerosol Physics and Chemistry

Paper #	Paper Title & Authors	Post #
038	**Characteristics of Carbon Nanoparticle Oxidation by NO_2** J. Choo, J. Kim, J. Jung, W. Kim, S. Kim, Department of Mechanical Engineering, Korea Advanced Institute of Science and Technology.	**3-4**
044	**Aerosol Microphysical Model of the Marine and Coastal Atmosphere Surface Layer for Calculation of Extinction in Visible and IR Radiation Wave Band** G.A. Kaloshin, G.G. Matvienko, V.E. Zuev, Institute of Atmospheric Optics SB RAS.	**3-5**
047	**Physical and Chemical Characteristics of Aerosols in Different Environments in India** P.S.P. Rao, P.D. Safai, G.A. Momin, K. Ali, S. Tiwari, D.M. Chate, Indian Institute of Tropical Meteorology.	**3-6**
177	**Aerosol Characteristics over Bay of Bengal and the Arabian Sea during March-May 2006** S. Kedia, S. Ramachandran, Physical Research Laboratory.	**3-7**
184	**Climatology of Angstrom Turbidity Parameters over Mysore (12 N)** N.V. Raju, Global Academy of Technology	**3-8**
191	**Ozone Effect on Artificial Exhaust Particles** H.J. Kim, B.W. Han, Y.B. Kim, Y.J. Kim, Environment & Energy Research Div. Environmental System Research Center, Korea Institute of Machinery & Materials.	**3-9**
212	**Spatial and Temporal Variations in Aerosol Characteristics over India** S. Ramachandran, Space and Atmospheric Sciences Division, Physical Research Laboratory.	**3-10**
218	**Preparation of Polyacrylonitrile Fibers by Electrospinning and Evaluation As Filter Media for Nanoparticles** K.M. Yun, K. Okuyama, F. Iskandar, Department of Chemical Engineering, Graduate School of Engineering, Hiroshima University; M. Yasuko,M. Kawabe, Central Research Laboratory, Japan Vilene Company, LTD.; C.J. Hogan Jr, Department of Energy, Environmental, and Chemical Engineering, Washington University in St. Louis.	**3-11**

Topic 11 Aerosol Sampling

Paper #	Paper Title & Authors	Post #
124	**Measurement of Fine Particles with an Aerosol Mass Spectrometer at Roadside and Background Location** T. Kubota, K. Sekiguchi, K. Sakamoto, Graduate School of Science and Engineering, Saitama University.	**3-12**
248	**Study of Nanoparticles in the Workplace** C.J. Tsai, C.S. Chang, C.H. Wu, S.C. Chen, Institute of Environmental Engineering, National Chiao Tung University; Y.H. Cheng, Department of Environmental and Safety Engineering, Mingchi University of Technology; T.S. Shih, S.N. Uang, Institute of Occupational Safety and Health, Council of labor Affairs.	**3-13**
288	**The Sampling Method of Porous-Metal Denuder for Fluorine** C.C. Huang, H.H. Wu, T.M. Chen, H.C. Yang, Hazardous Gas & Particle Control Technology Dept., Energy & Environment Research Laboratories, Industrial Technology Research Institute.	**3-14**

Topic 12 Nanoparticle Synthesis and Applications		
Paper #	Paper Title & Authors	Post #
252	**Synthesis and Photocatalytic Behavior of CeO_2/TiO_2 Nano-Composite under UV and Irradiation** C.F. Wang, T.Y. Chen, Y.T. Chang, C.T. Yu, Department of Biomedical Engineering and Environmental Sciences, National Tsing Hua University.	**3-15**
274	**Synthesis of Microstructured Porous Titania Particles** H. Chang, S.J. Kim, H.D. Jang, K. Cho, Nano-materials group, Korea Institute of Geoscience and Mineral Resources; Tae-Oh Kim, School of Civil and Environmental Engineering, Kumoh National Institute of Technology; Kikuo Okuyama, Department of Chemical Engineering, Graduate School of Engineering, Hiroshima University.	**3-16**
277	**Monolayer Deposition of $L1_0$ FePt Nanoparticles Using an Electrospray** H.M. Lee, C.-J. Choi, Y.-J. Kim, Powder Materials Research Center, Korea Institute of Machinery and Materials; K. Okuyama, Department of Chemical Engineering, Graduate School of Engineering, Hiroshima University; T.O. Kim, School of Civil and Environmental Engineering, Kumoh National Institute of Technology.	**3-17**
318	**Preparation of Silver-Silica Composite Particles via Flame Spray Pyrolysis** S.C. Chiang, Y.C. Chang, Department of Chemical Engineering and Materials Science, Yuan Ze University.	**3-18**
321	**Formation of Metallic Platinum Nanoparticles by Flame Spray Pyrolysis** H.H. Tseng, Y.C. Chang, Department of Chemical Engineering and Materials Science, Yuan Ze University.	**3-19**
328	**Analysis on Growth of TiO_2 Nanoparticles in Diffusion Flame Reactor** D.-J. Kim, P. Sunsap, K.-S. Kim, Department of Chemical Engineering, Kangwon National University.	**3-20**
330	**Effects of Pulse Modulation on Particle Coating in Pulsed Plasma Chemicla Vapor Deposition** J.-Y. Kang, D.-J. Kim, K.-S. Kim, Department of Chemical Engineering, Kangwon National University.	**3-21**
331	**Particle Growth in Pulsed SiH_4 Plasma Chemical Vapor Deposition Process** D.-J. Kim, K.-S. Kim, Department of Chemical Engineering, Kangwon National University.	**3-22**
358	**Synthesis of Oxide Porous Particles by Colloidal Templating and Spray Method** Y. Kaihatsu, T. Ogi, F. Iskandar, A. Yabuki, K. Okuyama, Department of Chemical Engineering, Graduate School of Engineering, Hiroshima University.	**3-23**
359	**Preparation Photocatalytic TiO_2 Macroporous Particles by Spray Drying with Colloidal Templating Method** N. Hagura, Asep B.D. Nandiyanto, K.M. Yun, F. Iskandar, K. Okuyama, Department of Chemical Engineering, Graduate School of Engineering, Hiroshima University.	**3-24**
377	**Vapor-Phase Flame Synthesis of Rutile SnO_2 Nanoparticles** L.C. Chang, Y.K. Chen, Y.C. Chang, Department of Chemical Engineering and Materials Science, Yuan Ze University.	**3-25**

Topic 13 Radioactive and Nuclear Aerosols		
Paper #	Paper Title & Authors	Post #
033	Studies on Depletion of Mass Concentration of Co-Agglomerated Aerosols of Sodium Compound And Fission Products in a Closed	**3-26**

Topic 15 Coarse and Fine Aerosols

Topic 17 Aerosol Generation

Paper #	Paper Title & Authors	Post #
158	**Characteristics of a Silver Nanoparticle Generator Using a Small Ceramic Heater for Inhalation Toxicity Studies** J.-H. Ji, Digital Appliances R&D Center, Samsung Electronics Co. LDT.; J.-H. Jung, S.S. Kim, Korea Advanced Institute of Science and Technology; I.J. Yu, Korea Environment & Merchandise Testing Institute.	**3-37**
240	**Titanium Dioxide Nanoparticle Production by Combustion of Liquid Titanium Droplets** C.J. Tsai, C.C. Lo, S.C. Chen, R. Przekop, A. Onischuk**,** Institute of Environmental Engineering, National Chiao Tung University.	**3-38**
317	**Generation of Silver-Alumina Composite Particles via Flame Spray Pyrolysis** C.C. Hsu, Y.C. Chang, Department of Chemical Engineering and Materials Science, Yuan Ze University.	**3-39**

Special Symposium (I): International Symposium on Atmospheric Observations and Advanced Measuring Techniques in the Remote Areas

Paper #	Paper Title & Authors	Post #
147	**Fog Water Chemistry at Mt. Tateyama near the Coast of the Sea of Japan** K. Watanabe, A. Iwai, A. Kitamoto, A. Tohmatsu, K. Noritake, N. Miyashita, K. Yamada, Department of Environmental Systems Engineering, College of Technology, Toyama Prefectural University; H. Honoki, Toyama Science Museum.	**3-40**
161	**Vertical Distribution and Temporal Variation of Ozone Concentration at Mt. Fuji, Central Japan** M. Murosaki, K. Miura, Graduate School of Science, Tokyo University of Science; S. Fujita, Graduate School of Science, Tokyo University of Science, Environmental Science Laboratory, Central Research Institute of Electric Power Industry; H. Hayami, A. Takahashi, Environmental Science Laboratory, Central Research Institute of Electric Power Industry.	**3-41**
221	**Particulate PAHs Levels at Mt. Halla Site in Jeju Island, Korea; Transport Patters of PAHs in Northeast Asia** Y.P. Kim, J.Y. Lee, Department of Environmental Science and Engineering, Ewha Womans University; N. Kaneyasy, National Institute of Advanced Industrial Science and Technology; C.-H. Kang, Department of Chemistry, Cheju National University.	**3-42**
232	**Comparisons of Observations of Sulfate in Aerosols with Model Simulations at the Summit of Mt. Fuji** I. Suzuki, Department of Earth and Planetary Sciences, Graduate School of Sciences, Kyushu University.	**3-43**
374	**Air Quality Observation and Mapping over Penang by Remote Sensing Technique** H. S. Lim, M. Z. MatJafri, K. Abdullah, N. Mohd. Saleh, School of Physics, Universiti Sains Malaysia	**3-44**

Poster Session (P4)

8/29/2007 8:30 AM ~ 8/29/2007 12:00 PM

Topic 3 Indoor Aerosols

Paper #	Paper Title & Authors	Post #
003	**Numerical Study of Expiratory Droplet Dispersion Using a New Eulerian Modeling Approach** Alvin C.K. Lai, Department of Building and Construction, City University of Hong Kong.	**4-1**
027	**Dynamic Characteristics of Smoke Particle movement during A Multi-compartment Fire** S.C. Wang, C.S. Lin, Department of Mechanical Engineering, Yuan Ze University.	**4-2**
030	**Particle Size Distribution and Morphological Characteristics of Sedimented Chalk Particles During Classroom Teaching** D. Majumdar, Department of Environmental Science, Institute of Science and Technology for Advanced Studies and Research; S.P.M. Prince W., Solid Waste Management Division, National Environmental Engineering Research Institute.	**4-3**
122	**Indoor/Outdoor Relationships and Carbonaceous Components of Ultrafine Particles** K. Sekiguchi, N. Ishikawa, H. Suzuki, K. Sakamoto, Graduate School of Science and Engineering, Saitama University; T. Suzuki, S. Fujii, Graduate School of Information Science and Engineering, Tokyo Institute of Technology.	**4-4**
128	**Measurement and Control of Particulates in Commercial Kitchens** G.S. Umarji, R.S. Patil, Centre for Environmental Science and Engineering, Indian Institute of Technology.	**4-5**
145	**In-Place Test of a Bag-In/Bag-Out Filtration System: (2) Test at Downstream of the Filter Bank** D. Lin, S.C. Hu, J. Tsao, B. Shyu, C.Y. Huang, C. Y. Chu, Department of Energy and Refrigerating Air-Conditioning Engineering, National Taipei University of Technology.	**4-6**
178	**Dynamic Analysis on Particle Concentration during the Door Opening Period of the Front Opening Unified Pod that loaded with 25 pieces of 300 mm Wafers** C.W. Ku, S.C. Hu, J.M. Tsao, Y.C. Tung, Department of Energy and Refrigerating Air-Conditioning Engineering, National Taipei University of Technology.	**4-7**
283	**Removal Efficiency of Aerosols by Combining Negative Ions with Electret Filters** S.H. Yang, Department of Leisure and Recreation Management, Toko University; G.W.M. Lee, P.Z. Lee, Graduate Institute of Environmental Engineering, National Taiwan University; H.L Huang, Department of Occupational Safety and Health, Chia Nan University of Pharmacy & Science.	**4-8**
357	**Case Study of Airborne Molecular Contaminatin (AMC)** S.N. Li, H.Y. Shih, S.Y. Yen, Energy and Environment Research Laboratories, Industrial Technology Research Institute.	**4-9**

Topic 4 PM in Asia

Paper #	Paper Title & Authors	Post #
082	**Source Apportionment of Fine Particulate Matter and Light Extinction in Hong Kong** Q.J. Bian, Z.B. Yuan, Atmospheric, Marine, and Coastal Environment (AMCE), School of Science, Hong Kong University of Science and Technology; J.Z. Yu, Department of Chemistry, The Hong Kong University of Science and Technology; A.K.H. Lau, Atmospheric, Marine, and Coastal Environment (AMCE), School of Science, Hong Kong University of Science and Technology,	**4-10**

	Institute for the Environment, The Hong Kong University of Science and Technology; P.K.K. Louie, Environmental Protection Department of HKSAR Government.	
085	**Exposure to Particulates and Polycyclic Aromatic Hydrocarbons of Commuters with Three Different Modes in Taiwan** S.-C. Candice Lung, C.-C. Lin, C.-H. Liu, S.-Y. Huang, T.-Y. Wen, Research Center for Environmental Changes, Academia Sinica.	**4-11**
098	**Concentrations of Particulate Polycyclic Aromatic Hydrocarbons Species from Different Source Regions Surrounding Taiwan** S.C.C. Lung, C.Y. Lin, C.H. Liu, C.C. Lin, S.Y. Huang, Research Center for Environmental Changes, Academia Sinica.	**4-12**
127	**Measurement of Fine Particle Emission Rates of Vehicles in a Roadway Tunnel in Guangzhou, China** L.-Y. He, Shenzhen Graduate School, Peking University; M. Hu, Y. H. Zhang, State Key Joint Laboratory of Environmental Simulation and Pollution Control, College of Environmental Sciences, Peking University.	**4-13**
140	**Size Distributions of Atmospheric Elemental Carbon and the Possible Evolution Processes in a Coastal Urban Environment in South China** X.-F. Huang, J.Z. Yu, Z. Yuan, Atmospheric, Marine and Coastal Environment Program and Department of Chemistry Hong Kong University of Science & Technology; L.-Y. He, Shenzhen Graduate School, Peking University.	**4-14**
150	**A Fast Fourier Transform (FFT) and ARIMA Based Modeling Approach for Forecasting Aerosol Concentration in the Atmosphere of Delhi** A. Prakash, K. Kumar, V.K. Jain, School of Environmental Sciences, Jawaharlal Nehru University.	**4-15**
220	**Characteristics of Carbonaceous Aerosols over Urban Atmosphere and High Altitude Site in North India** K. Ram, A.K. Sudheer, P. Hegde, M.M. Sarin, Chemistry Lab, Physical Research Laboratory.	**4-16**
225	**Sampling and Characterization of $PM_{2.5}$ and PM_{10} in Mumbai** N. Goyal, R.S. Patil, V. Sethi, Centre for Environmental Science and Engineering (CESE); R. Kumar, National Environmental Engineering Research Institute (NEERI).	**4-17**

Topic 6 Health Effect of Aerosols

Paper #	Paper Title & Authors	Post #
013	**Quantitative Risk Assessment of the Human Lung Burdens – Induced Oxidative Stress from Diesel Exhaust Particles in Southern Taiwan** C.P. Chio, C.M. Liao, Ecotoxicological Modeling Center, Department of Bioenvironmental Systems Engineering, National Taiwan University.	**4-18**
246	**Biotoxicity Assessment on Volatile Organic Compounds and Polycyclic Aromatic Hydrocarbons of Motorcycle Exhaust Waste Gas** S.-W. Lin, P.-Y. Chiang, Department of Chemical Engineering, National I-Lan University; B.-Y. Chen, Department of Chemical Engineering, National I-Lan University; C.-T. Chang, Department of Environmental Engineering, National I-Lan University.	**4-19**
368	**A Revisionary Method to Estimate PFC Emissions Accurately** S.-J. Yu, G.-H. Leu, S.-N. Li, Industrial Technology Research Institute; C.-C. Lin, C.-Y. Huang, Taiwan Semiconductor Manufacturing Company, Ltd.	**4-20**

Topic 7 Bioaerosols

Paper #	Paper Title & Authors	Post #
043	**Isolation and Identification of Bioaerosols in a Kosa Source Region, Dunhuang** F. Kobayashi, M. Kakikawa, Y. Iwasaka, Institute of Nature and Environmental Technology, Kanazawa University; M. Yamada, Graduate School of Natural Science and Technology, Kanazawa University; B. Chen, G.-Y. Shi, Institute of Atmospheric Physics, Chinese Academy of Sciences.	**4-21**
272	**The Study of Germicidal Methods on Filtering-Facepiece Respirators Reuse** C.W. Chen, S.H. Huang, Y.F. Ho, T.S. Yu, Institute of Occupational Safety and Health (IOSH), Council of Labor Affairs, Executive Yuan, Taiwan.	**4-22**
298	**Ice Nucleating Ability of Pollen Grains: A Laboratory Investigation** A. Hazra, P.-Y. Tang, J.-P. Chen, Cloud and Aerosol Research Laboratory, Department of Atmospheric Sciences, National Taiwan University; P. S. Maiti, L. N. Biswas, U. K. De, Atmospheric Science Research Group, Department of Environmental Science, Jadavpur University.	**4-23**
339	**Modelling of Photosynthesis in Suspended Bacterial Aerosols Droplets** M.V. Jouravlev, Raymond and Beverly Sackler Faculty of Exact Sciences, School of Chemistry, Tel-Aviv University.	**4-24**

Topic 9 Global Warming and Atmospheric Aerosols

Paper #	Paper Title & Authors	Post #
099	**Seasonal Variation of Aerosol Radiative Properties at a Tropical Urban Station, Pune during 2005** S. Kewat, P.D. Safai, G. Pandithurai, P.S.P. Rao, G.A. Momin, P.C.S. Devara, Indian Institute of Tropical Meteorology.	**4-25**
104	**The Impacts of Climate Change on Future Air Quality and Carrying Capacity of PM** C.-H. Tseng , M.C. Wei, Institute of Environmental Engineering and Management, National Taipei University of Technology.	**4-26**
107	**Variation of Column Aerosols and Its Effect on Total Radiation Flux over Delhi** S. Singh, M.K. Srivastava, R.S. Tanwar, R. Singh, Radio and Atmospheric Sciences Division, National Physical Laboratory.	**4-27**
143	**Measurements of Aerosol Size Distribution at the Summit and the Base of Mt. Fuji** K. Miura, M. Murosaki, H. Kobayasi, H. Hayami, S. Fujita, Y. Igarashi, Department of Physics, Tokyo University of Science.	**4-28**
165	**Aerosol Observations at a Remote Island: Minicoy in Southern Arabian Sea** V. Vinoj, S.K. Satheesh, Centre for Atmospheric and Oceanic Sciences, Indian Institute of Science; K.K. Moorthy, Space Physics Laboratory, Vikram Sarabhai Space Centre.	**4-29**
170	**Nanoparticles Exhausted from Railroad Diesel Engine** S.B. Kwon, Y.M. Cho, D.S. Park, Environment and Fire Control Research Team, Korea Railroad Research Institute (KRRI).	**4-30**
215	**The Conversion of CO_2 to Urea by Novel TiO_2 Photocatalysts** C.H. Huang, C.F. Wang, C.T. Yu, Department of Biomedical Engineering and Environmental Sciences, National Tsing Hua University.	**4-31**
356	**Reducing NOx Emission from the Combustion of Biodiesel Blends Using Low-Temperature Combustion Engines** Y.C. Lin, T. Fang, C.F. Lee, Department of Mechanical Science and Engineering, University of Illinois at Urbana-Champaign.	**4-32**

Topic 16 Aerosol Generation

Paper #	Paper Title & Authors	Post #
369	**Case Study of Ozone Emission Reduction in a Semiconductor Manufacturing Plant** S.-I Yen, S.-J. Yu, S.-N. Li, Energy and Environment Research Laboratories, Industrial Technology Research Institute.	**4-33**
370	**Characterization of Heavy Metals Size Distribution in the Bottom Ash of Municipal Solid Waste Incinerators** C.-K. Chen, C. Lin, Department of Environmental Engineering and Science, National Pingtung University of Science and Technology; L.-C. Wang, G.-P. Chang-Chien, Department of Chemical and Materials Engineering, Cheng Shiu University; Y.-C. Lin, Super Micro Mass Research & Technology Center, Cheng Shiu University.	**4-34**
372	**Polychlorinated Dibenzo-*p*-dioxins/dibenzofurans Distribution in Various Ashes of the Municipal Waste Incinerator** Y.-S. Lin, K.-S. Chen, Institute of Environmental Engineering, National Sun Yat-Sen University; Y.-C. Lin, Super Micro Mass Research & Technology Center, Cheng Shiu University; L.-C. Wang, G.-P. Chang-Chien, Super Micro Mass Research & Technology Center, Cheng Shiu University, Department of Chemical and Materials Engineering, Cheng Shiu University.	**4-35**

Topic 18 Control Technology

Paper #	Paper Title & Authors	Post #
293	**Utilizing a Surfactant Spray System to Removal Particle from a Field Scrubber** C.C. Huang, H.H. Wu, T.M. Chen, S.H. Yeh, H.M. Chein, Hazardous Gas & Particle Control Technology Dept., Energy & Environment Reasearch Laboratories, Industrial Technology Research Institute.	**4-36**
355	**Carbon Monoxide Distribution in a Longitudinal Ventilated Traffic Tunnel** C.Y. Chung, Department of Environmental Resources Management, Tajen University; P.L. Chung, Department of Food and Beverage Management, Tajen University.	**4-37**