

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

	Hydrocarbons in Coal Combustion Emissions E.H.L. Sit, J.Z. Yu, Department of Chemistry, Hong Kong University of Science and Technology; L. Zhang, Y. Ninomiya, Department of Applied Chemistry, College of Engineering, Chubu University.	
142	Carbonaceous Aerosols in the MABL of Bay of Bengal A.K. Sudheer, M.M. Sarin, Physical Research laboratory.	1-15
149	Aerosol Characters at Indo Gangetic Plain during Special Aerosol Land Campaign II R. Kumar, Anand Engineering College; S.S. Srivastava, K.M. Kumari, Department of Chemistry, Faculty of Science, Dayalbagh Educational Institute.	1-16
159	Chemical Composition of Wet and Dry Depositions at High Altitude Location, Sinhadag, India K.B. Budhavant, P.S.P. Rao, P.D. Safai, G.A. Momin, K. Ali, D.M. Chate, S. Kewat, Indian Institute of Tropical Meteorology.	1-17
172	Fine Mode Aerosols over Asia I. Sano, S. Mukai, Faculty of Science & Technology, Kinki University; M. Mukai, CCSR, University of Tokyo.	1-18
194	Concentration of PCDD/Fs in the Ambient Air during Agricultural Waste Burning J.-H. Kao, K.-S. Chen, Institute of Environmental Engineering, National Sun Yat-Sen University; C.-H. Tsai, Department of Chemical and Material Engineering, National Kaohsiung University of Applied Sciences; H.-W. Li, Department of Environmental Engineering, National Cheng Kung University; G.-P. Chang-Chien, Department of Chemical and Materials Engineering, Cheng Shiu University.	1-19
196	Photocatalytic Degradation of Ethylene Using Ozone-Producing UV Lamp with TiO₂ Catalyst K.-L. Chang, M.-S. Chou, Institute of Environmental Engineering, National Sun Yat-Sen University; K. Sekiguchi, K. Sakamoto, Department of Environmental Science and Human Engineering, Graduate School of Science and Engineering, Saitama University.	1-20
201	Correlation between Ambient Air Concentrations and Banyan Leaf Contents of Polychlorinated Dibenzo-<i>p</i>-Dioxins And Dibenzofurans L.-F. Lin, Department of Environmental Engineering, Kun Shan University; W.-J. Lee, I.-C. Chou, C.-Y. Hung, Department of Environmental Engineering, National Cheng Kung University; L.-C. Wang, G.-P. Chang-Chien, Department of Chemical and Materials Engineering, Cheng-Shiu University.	1-21
210	Effect of Wastewater/Heavy Oil Emulsified Fuel on the Emissions of Air Pollutants from the Industrial Boiler C.-C. Chen, W.-J. Lee, Department of Environmental Engineering, National Cheng Kung University, Sustainable Environment Research Center, National Cheng Kung University; O.J. Hao, Department of Civil and Environmental Engineering, University of Maryland.	1-22
230	Emission of Polycyclic Aromatic Hydrocarbons from the Stack Gas in a Power Plant H.R. Chao, Department of Environmental Science and Engineering, National Pingtung University of Science and Technology; Y.F. Wang, Department of Bioenvironmental Engineering, Chung Yuan Christian University; L.C. Wang, Department of Chemical Engineering, Cheng Shiu University.	1-23
250	Silane Removal by Using Alumina-Supported Metal Oxide Adsorbents J.-N. Hsu, Energy and Environment Research Laboratories, Industrial Technology and Research Institute, Institute of Environmental Engineering, National Chiao Tung University; C.-J. Tsai, C. Chiang, Energy and Environment Research Laboratories, Industrial Technology and Research Institute, Institute of Environmental Engineering, National Chiao Tung University; S.-N. Li, Energy and Environment Research Laboratories, Industrial Technology and Research Institute.	1-24
254	Analysis of the Characteristics of Aerosol Distributions in Xi'an over 2001-2006	1-25

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260	Characteristics of Atmospheric Particles Collected near a Jujube Waste Open Burning Site C.C. Lin, S.J. Chen, K.L. Huang, Department of Environmental Engineering and Science, National Pingtung University of Science and Technology; W.Y. Lin, Institute of Environmental Planning and Management, National Taipei University of Technology.	1-26
265	Investigation of the Characteristics of Polycyclic Aromatic Hydrocarbons in the Atmosphere in Kaohsiung K.S. Chen, H.K. Wang, J.J. Lu, Y.P. Peng, W.C. Wang, Institute of Environmental Engineering, National Sun Yat-Sen University; B.-L. Wei, Institute of Life Science, National Taitung University.	1-27
268	Assessment of Ambient Particulate Matter Concentrations in a Mixed Urban and Rural Environment in India: A Case Study S.N. Singh, Department of Chemistry, Udai Pratap Autonomous College; R. Sharma, Hydrological Observation Circle, Central Water Commission.	1-28
304	Effect of Metallic Salts on Particulate and Polycyclic Aromatic Hydrocarbons Emissions from Burning Incense C.R. Yang, T.C. Lin, H.S. Huang, Department of Environmental Resource Management, Chia-Nan University of Pharmacy and Science.	1-29
306	The Effect of Humidify to the Formation and Growth of Secondary Organic Aerosol at Photooxidation in Smog Chamber K. Enya, K. Sekiguchi, K. Sakamoto, Graduate School of Science and Engineering, Saitama University.	1-30
323	Characterization of Dicarboxylic Acids of Particulate Matters during PM Episode and Non-PM Pollution Period Y.I. Tsai, H.-J. Huang, S.-C. Kuo, Department of Environmental Engineering and Science, Chia Nan University of Pharmacy and Science.	1-31
332	The Pyrolytic, Morphologic and Light-Absorption Characteristics of Black Carbon Particles F.F. Fu, M.Y. Jiang, Z.L. Chen, L.J. Xu, X.Q. Xu, Key Lab of Analysis and Detecting Technology for Food Safety (Fuzhou University) of Ministry of Education and Department of Chemistry, Fuzhou University.	1-32
336	A Study for Size and Concentration of Ambient Nanoparticle in Hsinchu City and Its Suburban Area in North Taiwan T.M. Chen, C.C. Huang, H.M. Chein, Energy & Environment Research Laboratories, Industrial Technology Research Institute.	1-33
343	Chemical Characterization of Mineral Aerosols in the MABL of the Arabian Sea A. Kumar, M.M. Sarin, Physical Research Laboratory.	1-34
344	Characterization of Particulate Metals in Urban and Rural Air, Lake Ontario Region H.K. Wong, D. Muir, Environment Canada, Burlington; C. M. Banic, Environment Canada, Downsview; Z. Nejedly, J. Iain Campbell, Department of Physics, University of Guelph.	1-35
371	Characteristics and Source Contribution Analysis of Atmospheric PM_{2.5} at an Urban Site and a Rural Site in Southern Taiwan W.C. Wang, K.S. Chen, H.K. Wang, Institute of Environmental Engineering, National Sun Yat-Sen University; S.J. Chen, C.C. Lin, J.H. Tsai, Department of Environmental Science and Engineering, National Pingtung University of Science and Technology; C.H. Lai, Department of Nursing, Central Taiwan University of Science and Technology.	1-36

Topic 14 Air Pollution

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010	CO₂ 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 Institute 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

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Topic 8 Aerosol Measurement and Instrumental Analysis		
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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

	Yat-Sen University.	
045	Absolute Size Measurement of Nist Srm 1963 by the Electro-Gravitational Aerosol Balance: Investigation on the Influence of Stain on the Millikan-Type Plate Electrode K. Takahata, K. Ehara, National Metrology Institute of Japan (NMIJ), National Institute of Advanced Industrial Science and Technology (AIST).	2-2
059	Tsunami-2004 and Aerosol Optical Thickness K.E. Ganesh, T.K. Umesh, B. Narasimhamurthy, Department of Studies in Physics, University of Mysore.	2-3
081	Application of Positive Matrix Factorization in Resolving Elemental and Organic Carbon from Thermograms of Non-Uniform Aerosol Deposits H. Yu, J.Z. Yu, Atmospheric Marine Coastal Environment Program & Department of Chemistry, Hong Kong University of Science & Technology.	2-4
120	Evaluation of an In-Injection Port Thermal Desorption GC/MS Method for Analysis of Non-Polar Organic Compounds in Ambient Aerosol Steven S.H. Ho, Judith C. Chow, John G. Watson, Division of Atmospheric Sciences, Desert Research Institute; J.Z. Yu, Department of Chemistry, The Hong Kong University of Science and Technology.	2-5
123	Characterization of a High Flow Rate Water-Based Condensation Particle Counter for Clean-Room Monitoring K.H. Ahn, Department of Mechanical Engineering, Hanyang University; J.H. Ahn, J.U. Yoon, J.J. Oh, S.T. Kim, Y.T. Kwon, R&D Center.	2-6
151	Assessment of Heavy Metal Concentration in Urban Atmospheric Dust Using XRF Technique: A Case Study in Kolkata Metropolis, India S. Kar, B. Nath, A.C. Samal, J.P. Maity, S.C. Santra, Department of Environmental Science, University of Kalyani.	2-7
154	Analysis of Aerosol Optical Thickness in Areas of Different Optical Domains – Study Through In-Situ and Satellite Data H B Menon, Department of Marine Science, Goa University.	2-8
164	Refining the Interpretation of Multiwavelength Aethalometer Data: Case Study from Crpaqs J.R. Turner, Department of Energy, Environmental and Chemical Engineering, Washington University; P.T. Roberts, Sonoma Technology, Inc.	2-9
173	Effects of Atmosphere Temperature on the Characterization of Exhaust Particles from a 4-Stroke Motorcycle Engine W.Y. Lin, H.H. Hsu, Institute of Environmental Engineering and Management, National Taipei University of Technology.	2-10
181	Difference of PM_{2.5} Readings between Two Portable Aerosol Monitors C.-H. Huang, Department of Environmental Engineering and Health, Yuanpei University.	2-11
208	Chemical Characterization of Aerosols near Land Surface S.H. Kulkarni, D.B. Jadhav, H.K. Trimbake, Indian Institute of Tropical Meteorology.	2-12
226	Fundamental Studies for Clean-Up of Particulate Matter and Tar in Producer Gas from Thermo-Chemical Gasifiers N. Selvakumar, P.P. Parikh, V. Sethi, Centre for Environmental Science and Engineering (CESE).	2-13
251	Developing a Vertical Aerosol Sampling System for the Field Measurement of Fugitive Dusts Emitted from Raw Material Piles C.-S. Yuan, Institute of Environmental Engineering, National Sun Yat-sen University, College of Municipal & Environmental Engineering, Harbin Institute of Technology; H.Y. Lin, Institute of Environmental Engineering, National Sun Yat-sen University; H.-C. Jen, C.-G. Lee, Department of Environmental Resource Management, Tajen University.	2-14
253	Feasibility Study of LA-ICP-MS Analysis for Filter Samples Collected by ELPI C.F. Wang, Y.K. Hsieh, D.T. Mui, W.C. Jhang, Department of Biomedical Engineering and Environmental Sciences, National Tsing Hua University.	2-15
266	Emissions from a Biodiesel Generator	2-16

	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		
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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/TiO₂ 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 Y₂O₃ 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 TiO₂/V₂O₅ 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 TiO₂ 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 SO₂ 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 SO₂ 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 NO₂ 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 CeO₂/TiO₂ 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 L1₀ FePt Nanoparticles Using an Electropray 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 TiO₂ 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 Chemical 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 SiH₄ 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 TiO₂ 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 SnO₂ Nanoparticles L.C. Chang, Y.K. Chen, Y.C. Chang, Department of Chemical Engineering and Materials Science, Yuan Ze University.	3-25

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033	Studies on Depletion of Mass Concentration of Co-Agglomerated Aerosols of Sodium Compound And Fission Products in a Closed	3-26

	Vessel R. Baskaran, V. Subramanian, R. Indira, Radiological Safety Division, Indira Gandhi Center for Atomic Research.	
207	Indoor Aerosol Deposition-Velocity Measurement Technique Using Direct Thoron Progeny Sensor (DTPS) R. Mishra, Y.S. Mayya, Environmental Assessment Division, Bhabha Atomic Research Centre.	3-27
229	Measurement of Radiation Aerosols in Granite Quarries around Bangalore City C. Ningappa, J. Sannappa, Department of Physics, Yuvaraja's College; M.S. Chandrashekar, L. Paramesh, Department of studies in Physics, University of Mysore.	3-28
234	Inclusion of Thermophoretic Deposition in NAUA Code and its Validation in Containment Test Facility A. Khan, B.K. Sapra, Y.S. Mayya, Environmental Assessment Division, Bhabha Atomic Research Centre; P.J. Reddy, Radiation Safety Systems Division, Bhabha Atomic Research Centre.	3-29
301	Studies on Atmospheric Electrical Conductivity Related to Air Pollution in Mysore (12° N, 76° E), India N. Ragini, T.S. Shashikumar, M.S. Chandrashekar, L. Paramesh, Department of Studies in Physics, University of Mysore.	3-30
342	Studies on Radon Progeny Concentrations in Different Types of Dwellings at Mysore City, India M.S. Chandrashekar, T.S. Shashikumar, N. Ragini, L. Paramesh, Department of Studies in Physics, University of Mysore.	3-31

Topic 15 Coarse and Fine Aerosols

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028	Effect of Droplet Sizes of a Water Mist Fire Suppression System on Fire Spread in a Basement Building C.S. Lin, S.C. Wang, C.C. Yu, Department of Mechanical Engineering, Yuan Ze University.	3-32
171	Reducing the PCDD/F Emissions from Municipal Solid Waste Incinerators by Using Natural Organic Enzyme L.C. Wang, G.P. Chang-Chien, Department of Chemical and Materials Engineering, Cheng Shiu University.	3-33
187	Source Apportionment of Total Suspended Particulate Matter in Coarse and Fine Size Ranges over Delhi A. Srivastava, S. Gupta, V.K. Jain, School of Environmental Sciences, Jawaharlal Nehru University.	3-34
236	Elemental Composition of Coarse and Fine Particulate Matter in Navi Mumbai Region I.V. Saradhi, P. Kothai, P. Prathibha, G.G. Pandit, V.D. Puranik, Environmental Assessment Division, Bhabha Atomic Research Centre.	3-35
239	Characterization and Source Apportionment of Polycyclic Aromatic Hydrocarbons Associated with Fine Particulate Matter in the Urban Atmosphere of Mumbai, India S.K. Sahu, G.G. Pandit, V.D. Puranik, Environmental Assessment Division, Bhabha Atomic Research Centre.	3-36

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. LTD.; 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

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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

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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		
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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 PM₁₀ 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

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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

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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

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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. Sathesh, 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 (KRRRI).	4-30
215	The Conversion of CO₂ to Urea by Novel TiO₂ 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 NO_x 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		
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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-<i>p</i>-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		
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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 Research 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