



3rd Asia Pacific Conference on Sustainable Energy and Environmental Technologies

**December 3-6, 2000
Kowloon Shangri-La Hotel, Hong Kong**

**Organised by
Hong Kong University of Science and Technology
Hong Kong SAR, China**

Sponsored by Croucher Foundation

In association with

- University of Queensland, Australia
- National University of Singapore, Singapore
- Japan Macro-Engineers Society, Japan
- Yokkaichi University, Japan
- Chinese Academy of Sciences, China
- University of Tokyo, Japan
- Korean Institute of Energy Research, Korea

Welcome

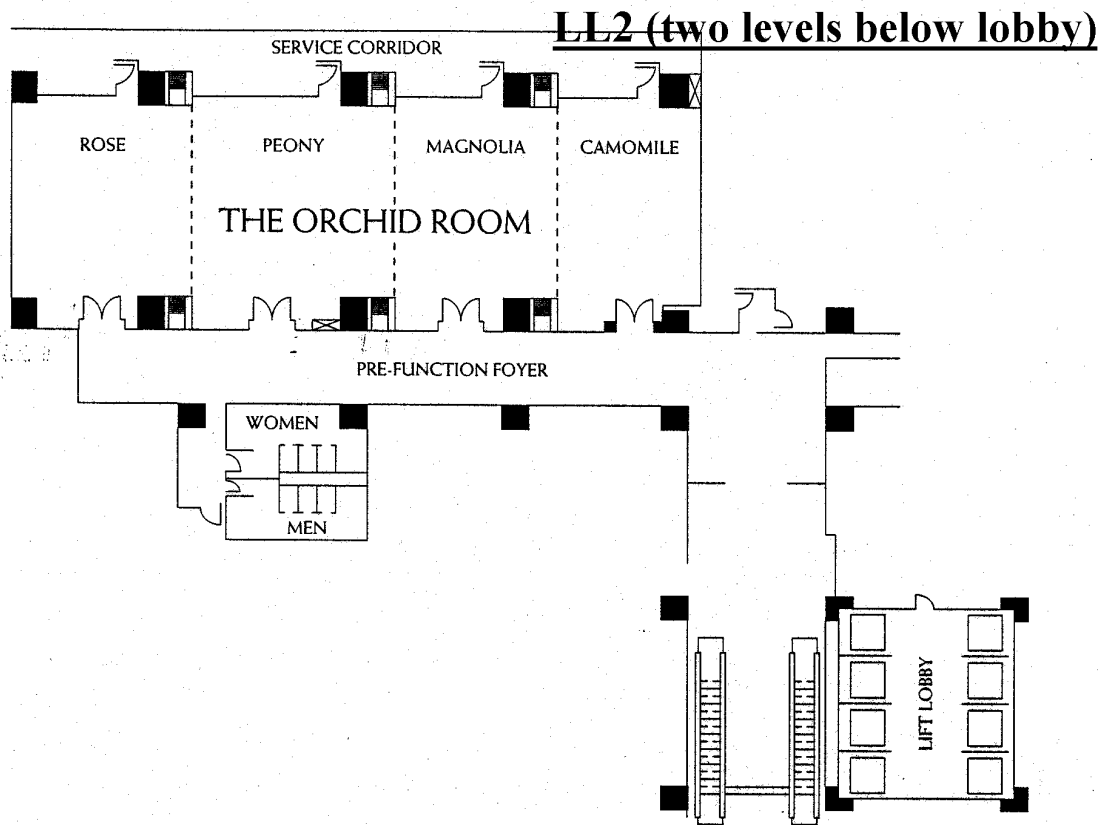
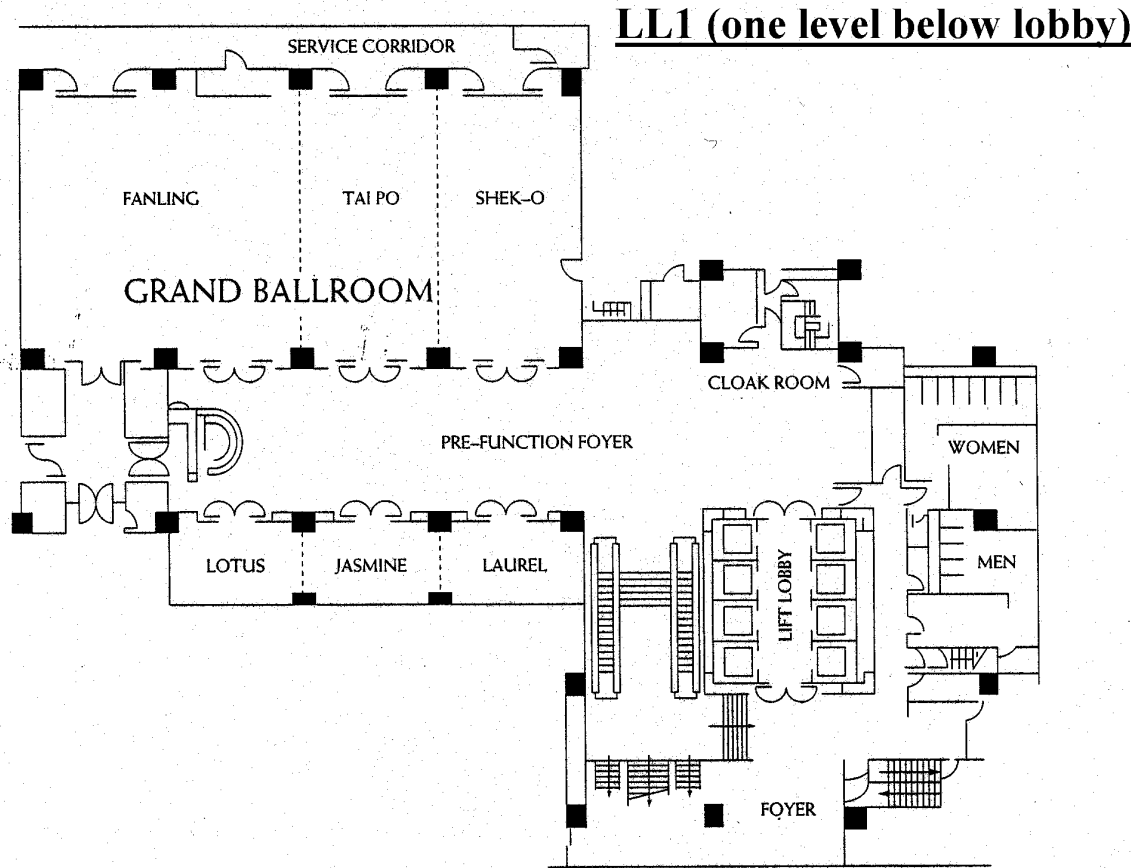
With the rapid expansion of the Asia-Pacific economy in the last decade and now the recovery after the recent downturn, severe demands will be placed on energy services and the environment. Coping with the volatile oil prices that are persisting in the market introduces an additional factor into the energy supply and demand equation, not just for countries in this region but also worldwide. Inevitably there will be implications on environmental issues too. The future will see a continuing challenge to balance growth with sustainability in the economic, social and environmental sectors. The third Asia Pacific Conference on Sustainable Energy and Environmental Technologies (*APCSEET '2000*), a sequel to the immensely successful APCSEET conferences held in Singapore and Australia, is aimed at meeting this challenge by addressing the pertinent issues related to sustainable energy and environmental protection. The conference provides a forum for participants from academia, industry and government agencies to interact, report on research in progress, and identify opportunities in the fields of sustainable energy and environmental technologies. Hong Kong is delighted to have the opportunity to host *APCSEET '2000* as the energy and environmental issues raised in this conference are particularly timely for the Special Administrative Region.

We are pleased to see many contributions from various parts of the world, with more than 110 papers from over 20 countries. The presentations include not only technical issues such as air pollution control, wastewater treatment, solid waste management, renewable energy and cleaner production, but also education and policy issues.

On behalf of the committee, I welcome you to the 3rd Asia Pacific Conference on Sustainable Energy and Environmental Technologies. I wish you all a fruitful and enjoyable meeting.

Professor Po Lock Yue
Chairman, Organising Committee
Head, Department of Chemical Engineering
Hong Kong University of Science and Technology

Kowloon Shangri-La Hotel Floor Plan



Technical Program
Sunday 3 December 2000

Venue: Magnolia Room (LL2)

16:00-19:30 Registration

18:00-21:00 Cocktail Welcome Reception

Monday 4 December 2000

Venue: Fanling Room (LL1)

Chair: **Dr. Xijun Hu**

- 09:00 Official Welcome **Professor Po Lock Yue**, Head of Chemical Engineering Department,
 Hong Kong University of Science and Technology
- 09:10 Official Opening **Professor Otto Lin**, Vice President, Hong Kong University of Science and Technology
- 09:20 Plenary address **Professor Paul Greenfield**, Deputy Vice Chancellor, University of Queensland
 "Sustainability: do I bury my head in the sand or put it on the block?"

10:00 Morning break — Grand Ballroom Pre-Functional Foyer (LL1)

	Clean production	Novel adsorbents and catalysts for pollution control I	Water and Wastewater treatment I
Venue: Chairs:	Rose Room (LL2) Professor Yoichi Nishijima Professor William D'haeseleer	Peony Room (LL2) Professor Max Lu Professor Mamdouh M. Nassar	Magnolia Room (LL2) Professor Andre M. Braun Professor Po Lock Yue
10:30 keynote speakers	Zero Emission Oriented Material Cycles Professor Motoyuki Suzuki University of Tokyo, Japan p. 6	Photocatalytic and Self-Cleaning Functions of TiO ₂ Coatings Professor Akira Fujishima University of Tokyo, Japan p. 1	The Contribution of Advanced Oxidation Technologies Towards a Sustainable Environment Dr. Francis Luck Vivendi Water Research Centre, France p. 642
11:10	Integrated Methodology for Waste Minimization Dr. Ying Gao Dalian University of Technology, China p. 341	Photodegradation of 2,4-Dichlorophenol in Titanium Dioxide (TiO ₂) Aqueous suspensions Dr. Khajornsak Sopajaree Chiang Mai University, Thailand p. 508	Recent Development on the Practical Utilization of the Fenton Reaction in Industrial Wastewater Treatment Professor John Kiwi Swiss Federal Institute of Technology, Switzerland, p. 562
11:30	The Drivers for China's Enterprises to Implement ISO 14001 Ms. Fang Xie Tianjin University of Finance and Economics, China p. 197	On Practical Use of TiO ₂ Photocatalyst Reactor to Water Purification Professor Tatsuo Kanki Himeji Institute of Technology, Japan p. 84	Waste Water Treatment By The Photochemical Enhanced Fenton Reaction: Modeling And Optimization Using Experimental Design And Artificial Neural Networks Dr. Esther Oliveros Universität Karlsruhe, Germany p. 577
11:50	Alternative chemicals of handmade paper pulping Dr. P. Srinophakun Kasetsart University, Thailand p. 673	Environmentally Friendly Catalysts Based on Mesoporous silicates: Immobilization of Aluminium Chloride for the Isopropanol of Naphthalene Dr. X.S. Zhao University of Queensland, Australia, p. 351	Advanced Photo-oxidation process for Ammonia removal from Industrial Wastewater Professor Sampat Sridhar Carleton University, Canada p. 582
12:10	The Study of CO ₂ Permeation Processes on a CMSM Derived from Paption Polyimide Dr. Kean Wang National Institute of Materials & Chemicals Research, Japan p. 652	Copper/MCM-41 as Photocatalyst for the Oxidation of Phenol Mr. Frank L.Y. Lam Hong Kong University of Science and Technology p. 51	The Study on the Wet Air Oxidation of High Concentrated Refractory Emulsification Wastewater and Its Kinetic Ms. Xinping Zeng Tongji University, China p. 336

12:30-14:00 Lunch — Tai Po & Shek O Rooms (LL1)

	Biological method I	Novel adsorbents and catalysts for pollution control II	Education and policy I
Venue: Chairs:	Rose Room (LL2) Professor Hongxun Zhang Dr. Jian Yu	Peony Room (LL2) Professor Sampat Sridhar Dr. Xiu Song Zhao	Magnolia Room (LL2) Professor Paul F Greenfield Professor Motoyuki Suzuki
14:00	Minimising Wastewater sludge Production by use of novel Membrane Bioreactor Professor Nigel Graham Imperial College, UK p. 135	Effects of Solution pH on the Removal of Aromatic Compounds from Aqueous Solutions by Activated Carbon Professor Max G.Q. Lu University of Queensland, Australia p. 362	ISO 14000 Environmental Management and preservation of global environment in Japan Professor Yoichi Nishijima Aichi-gakuin University, Japan p. 56
14:20	Recruitment of silent genes for Bioremediation Dr. Jimmy S.H. Tsang University of Hong Kong p. 231	Gas Stirring Technique for Adsorption of Basic Dyes onto montuorillonite-Clay Professor Mamdouh M. Nassar Minia University, Egypt p. 479	Implementation and Effect of ISO 14001 Certification System in Korean Enterprises Professor Yong-Chil Seo Yonsei University, Korea p. 473
14:40	Enhancement of Degradative Capacity by Heterologous Expression Dr. Jimmy S.H. Tsang University of Hong Kong p. 224	Microporous Carbon Adsorbents from Oil Palm Shells for Gas Separation Mr. Jaan Soon Tan Universiti Teknologi Malaysia p. 491	A Community-Based Model of Environmentally Sustainable Economic Development Professor Mary D. Zalesny Pacific Northwest National Laboratory, USA p. 590
15:00	Biodegradation of 1-Amino-4-Bromoanthraquinone-2-Sulfonic Acid by <i>Zooloaea Itzigohn</i> Strain HP3 Mrs. Liping Huang Dalian University of Technology, China p. 203	Estimation of Activation Energy for Desorption of Low-Volatility Dioxins on Zeolites by TPD Technique Dr. Hongxia Xi South China University of Technology, China p. 181	Virtual Classroom as a Tool for Environmental Education Dr. Jimmy C. Yu Chinese University of Hong Kong p. 668

15:30 Optional HKUST campus and boat trip starts from Shangri-La Hotel

15:20-15:50 Afternoon coffee & tea — The Orchid Room Pre-Functional Foyer (LL2)

Tuesday 5 December 2000

	Solid waste treatment I	Energy and renewable energy I	Water and Wastewater treatment II
Venue: Chairs:	Rose Room (LL2) Professor Sachiyo Asahi Professor Masaaki Nakamura	Peony Room (LL2) Dr. Eric Hu Dr. Guanyi Chen	Magnolia Room (LL2) Professor John Kiwi Dr. Esther Oliveros
09:00 keynote speakers	Particle Deposition in Granular Media - A Review Professor Chi Tien Syracuse University, USA p. 13	Sustainable Carbon Cycling Professor Ya-Hui Zhuang Chinese Academy of Science, China p. 31	Pollutant Degradation and Analysis by (Photo)Electrolysis and Vuv-Photolysis Professor Andre M. Braun Universität Karlsruhe, Germany p. 40
09:40	Solid Waste Management in Singapore Dr. Renbi Bai National University of Singapore p. 435	Subtropical Compressed Air Energy Storage Relating to Siting Free and High Efficient CAES-GT System Combined with By-Production Ice and Energy Saved Deep Desalination Dr. Masao Hayashi Central Research Institute of Electric Power Industry, Japan p. 130	Development of Airlift Ultrasonic Reactor for Treatment of Wastewater Including Refractory Organic Material Dr. Keiji Yasuda Nagoya University, Japan p. 69
10:00	High Quality Building Materials from Domestic and Construction Wastes Dr. John P. Barford Hong Kong University of Science and Technology p. 149	Analysis of a solar powered absorption chiller Mr. Zhongfu Li University of Hong Kong p. 237	Kinetic Study into the Wet Air Oxidation of Printing and Drying Wastewater Dr. Guohua Chen Hong Kong University of Science and Technology p. 164
10:20	Contaminated Site Investigation and Remediation of Chlorinated Aromatic Compounds Mr. Denis M Nobbs University of Sydney, Australia p. 398	Application of Energy and Pinch Analysis on Oleochemical Fractionation Processes Chee Hong Lee University Technology of Malaysia p. 498	Removal of Water from Water-in-Oil Emulsion by Freeze/Thaw Method Dr. Guohua Chen Hong Kong University of Science and Technology p. 175
10:40	Effects of Operation Conditions on Leaching Properties from Slag of Industrial Waste Dr. Keiji Yasuda Nagoya University, Japan p. 79	High Pressure Methane Storage in Coal- Potential for Pipelines and Transportation Fuel of the 21 st Century Mr. Paul Massarotto University of Queensland, Australia p. 375	Natural Organic Matter Removal in Direct Filtration System Dr. Renbi Bai National University of Singapore p. 442

11:00-11:30 Morning break — The Orchid Room Pre-Functional Foyer (LL2)

	Solid waste treatment II	Energy and renewable energy II	Greenhouse gas mitigation
Venue: Chairs:	Rose Room (LL2) Professor Rubina Greenwood Mr. Chris Stapleton	Peony Room (LL2) Professor Ya-Hui Zhuang Dr. H. Y. Zhu	Magnolia Room (LL2) Dr. Clive Davies Professor Yong-Chil Seo
11:30	Drying Performance of Refuse Derived Fuel Professor Masaaki Nakamura Nagoya University, Japan p. 74	Solar thermal power or solar aided thermal power? A choice between efficiencies Dr. Eric Hu Deakin University, Australia p. 387	Frontier of CO ₂ Reduction/Sink with International Win/Win Cooperation Coal fired Electric Power generation helps Afforestation through by product Utilization Professor Yoshitaka Nitta CRIEPI, Japan p. 62
11:50	The effect of application of gypsum by-produced from desulfurization on the growth of groundnut on Indian alkaline soils Professor Katsumi Ohkura Yokkaichi University, Japan p. 114	Biomass-based, small-scale, distributed generation of electricity and heat using integrated gasturbine- fuel cell systems Dr. Guanyi Chen Delft University of Technology, Netherlands p. 572	Potential Sources of Ozone in Beaumont, Texas, USA Dr. Jerry Che-Jen Lin Lamar University, USA p. 596
12:10	Bioreactor Landfill: Cheaper for Msw Disposal? Dr. Frank Xinlei Xu University of Queensland, Australia p. 381	Energy Consumption and Carbon-dioxide Emission in Thailand Dr. R.S. Tiwaree Suranaree University of Technology, Thailand p. 514	Dynamic Simulation of the Entire Electric Power Generation System for Evaluating CO ₂ -Emissions Professor William D'haeseleer University of Leuven, Belgium p. 536
12:30	Waste Minimisation and Potential for Recycling of Polystyrene Packaging Mr. Denis M Nobbs University of Sydney, Aaustralia p. 403	Energy Related CO ₂ emission in China's Industrial Sector Mr. Jinlong Ma University of Melbourne, Australia p. 409	Geologic Sequestration of CO ₂ & Flue Gases into Deep Australian Coal Seams with Enhanced Coalbed Methane Recovery Mr.Paul Massarotto University of Queensland, Australia p. 369

12:50-14:10 Lunch — Tai Po & Shek O Rooms (LL1)

	Solid waste treatment III	Energy and renewable energy III	Water and Wastewater treatment III
Venue: Chairs:	Rose Room (LL2) Professor Katsumi Ohkura Dr. Xijun Hu	Peony Room (LL2) Professor Yoshitaka Nitta Dr. I Ming Hsing	Magnolia Room (LL2) Dr. Renbi Bai Dr. Guohua Chen
14:10	Biodegradable Thermoplastic Blends for Management of Municipal Solid Waste Dr. Jian Yu Hong Kong University of Science and Technology p. 159	Characteristics of tyre powder gasification using a fluidised bed with an Air/Steam Mixture Ms. C.L. Wang University of Hong Kong p. 247	Composting of Pig-manure using Forced-aeration System Dr. R.S. Tiwaree Suranaree University of Technology, Thailand p. 519
14:30	The Effects of the Soil Improvement by the Desulfurization Gypsum on the Agricultural Production and the Tianjin Economy – The Case Study of China’s Tianjin City Professor Sachiyo Asahi Yokkaichi University, Japan p. 124	Thermo-Chemical Conversion of Biomass Energy to Medium Heating Value Gas for Industrial Application Dr. Guanyi Chen Delft University of Technology, Netherlands p. 632	A New Treatment of Organic Wastewater with Electro----Heterocatalysis Professor Mao-song Xie Dalian Institute of Chemical Physics, China p. 186
14:50	Construction Waste Minimisation Professor Rubina Greenwood Cardiff university, UK p. 535	Renewable Energy Applications and Impacts on Environmental Protection in Hong Kong Dr. Hongxing Yang Hong Kong Polytechnic University, Hong Kong p. 257	The study of the Synthetic Waste Water of monosodium glutamate Being Treated with HCR Process Professor Kang huai Liu Guilin Institute of Technology, China p. 315
15:10	Microwave Processing of Hazardous Sludge from PCB Manufacturing Dr. Quan Gan Queen’s University at Belfast, UK p. 208	An Optimal Renewable Energy Mathematical Model for Sustainable Energy Dr. S. Iniyan Anna University, India p. 467	Treatment of spent caustic liquor by catalytic wet oxidation Dr. Hongzhang Du Dalian Institute of Chemical Physics, China p. 213
15:30	Solid Waste Energy and Recovery Facility; SWERF Mr. Chris Stapleton Brightstar Environmental, Australia		

15:50-16:10 Afternoon break — The Orchid Room Pre-Functional Foyer (LL2)

18:30 Coaches depart from Shangri-La Hotel to the banquet venue

19:30 Conference dinner (Jumbo Seafood Restaurant, Aberdeen)

Wednesday 6 December 2000

	Air pollution and toxics I	Biological method II	Water and Wastewater treatment IV
Venue: Chairs:	Rose Room (LL2) Dr. Chak K. Chan Dr. Rui Wang	Peony Room (LL2) Professor Nigel Graham Dr. Jimmy S.H. Tsang	Magnolia Room (LL2) Dr. S. Kuma Professor Mao-song Xie
09:00	Development of Vacuum Injection Molding System with Purifier for Environment Protection Dr. Tsuyoshi Asano Himeji Institute of Technology, Japan p. 94	Levogluconan Kinase Involved In Citric Acid Fermentation by Aspergillus Niger Using Levogluconan as Sole Carbon Source Professor Hongxun Zhang Chinese Academy Sciences, China p. 194	Possibility of Utilization of Radicals and Ions Produced by Gaseous Corona Discharge to Degradation of Organic Compounds in Water Dr. Noriaki Sano Himeji Institute of Technology, Japan p. 89
09:20	Microscopic Nature and Elemental Composition of Brown Coal Fly Ash Particles from a large Coal fired Power Station Dr. Linda Zou Deakin University, Australia p. 392	Improvement on removal of haloalkane — a molecular biology approach Ms. Helen P.S. Wong University of Hong Kong p. 217	Application of a Membrane-Hollow Fiber Composite Module for Solid-Liquid Separation Dr. Renbi Bai National University of Singapore p. 448
9:40	Assessment of Annual Rate of Gaseous Pollutants from Variable-load Fuel Oil-Fired Steam Boilers Dr. Vladimir Kouprianov Thammasat University, Thailand p. 503	Development of a mathematical model for anaerobic digestion process by phase separation Ms. Mei Ling Tan Nanyang Technological University Singapore p. 420	Studies on Recycling of Neutralized Wastewater from Citric Acid Production Professor Hongyan Qi Chinese Academy Sciences, China p. 289
10:00	Emission testing on vehicles using biodiesel produced from waste cooking oil Mr. B.C.P Koo University of Hong Kong p. 242	pH Buffering Formulations for Acidic Geothermal Wells Ms. Yolanda P. Brondial De La Salle University, Philippines p. 529	Study on the Treatment of Copper-Electroplating Wastewater by Chemical Trapping and Flocculation Dr. Zhonghua Hu Tongji University, China p.326
10:20	Efficiency and Costs of the Future Desulfurization Activities in China Dr. Kito Hirofumi Yokkaichi University, Japan p. 104	Thermochemical Gasification of Biomass: the Fate of Main Components, Fuel Nitrogen and Trace Components in a Pressurized Fluidized Bed Gasification System Dr. Guanyi Chen Delft University of Technology, Netherlands p. 567	Chromium Adsorption on High-Performance Activated Carbons from Aqueous Solution Dr. Zhonghua Hu Tongji University, China p. 637

10:40-11:10 Morning break — The Orchid Room Pre-Functional Foyer (LL2)

	Air pollution and toxics II	Novel adsorbents and catalysts for pollution control III	Water and wastewater treatment V
Venue: Chairs:	Rose Room (LL2) Dr. Linda Zou Dr. Tsuyoshi Asano	Peony Room (LL2) Dr. Zhonghua Hu Professor Ta-Jen Huang	Magnolia Room (LL2) Professor Tatsuo Kanki Dr. John Barford
11:10	Heteropoly Compound Desulfurizer —A Promising Resolution to Air Pollution Control and Sulfur Recovery Dr. Rui Wang Hainan University, China p. 273	Adsorption of Sulphur Dioxide on Oil-palm-shell Activated Carbon in a Packed Bed Dr. Aik Chong Lua Nanyang Technological University, Singapore p. 430	Pressurized Upflow Aerobic Sludge Blanket for Pharmaceutical Wastewater Treatment Mr. Guangli Xiu East China University of Science & Technology, China p. 346
11:30	Influence of Temperature on Removal of Sulfur Dioxide and Benzene from Air by Corona Discharge Reactor Mr. Masanori Fukuoka Himeji Institute of Technology, Japan p. 99	Simulation and Analysis of Pressure Swing Adsorption Ethanol Drying Process by the Electrical Analogue Dr. Jianyu Guan South China University of Technology, China p. 170	Numerical Analysis of the Current in the Ise Bay and its Diffusion Processes of Soluble Matter Dr. Yukimasa Takemoto Yokkaichi University, Japan p. 119
11:50	Sustainable regional development in China—A case study of costs and benefits of desulfurization countermeasures in Tianjin, China Dr. Oka Yoshihiro Yokkaichi University, Japan p. 109	New Hydrotalcite Sorbents for the Removal of Coloured Organic compounds in Aqueous Solutions Dr. H.Y. Zhu University of Queensland, Australia p. 356	Optimization of Biological Nutrient Removal from Synthetic (Piggery Effluent) Wastewater Using a BOD Biosensor in a Sequencing Batch Reactor System Dr. John Barford Hong Kong University of Science and Technology p. 154
12:10	Monitoring on road emissions with remote sensing technologies Dr. Rose Gong Victoria University of Wellington, New Zealand p. 415	Preparation and Characterization of Activated Carbon from Oil-Palm Shells Dr. Aik Chong Lua Nanyang Technological University, Singapore p. 425	The Study on Corrosion and Scale Inhibition Efficiencies of the Phosphinico Succinic Acid Oligomer, Maleic Acid-Accrylic Acid Copolymer and Zinc Salt System Ms. Xiping Zeng Tongji University, China p. 331
12:30	Mitigation of Carbon Dioxide Emissions From Coal-Fired Power Plant in China Mr. Yanfeng Liu North China Electric Power University, China p. 678	Adsorption of Dyes onto Activated Carbon Cloth Professor Pierre le Cloirec Ecole des Mines de Nantes, France p. 550	Combined Electron-Beam Methods for Purification of Water and Wastewater Professor A.K. Pikaev Russian Academy of Sciences, Russia p. 541

12:50-14:10 Lunch — Tai Po & Shek O Rooms (LL1)

	Air pollution and toxics III	Novel adsorbents and catalysts for pollution control IV	Education and policy II
Venue: Chairs:	Rose Room (LL2) Dr. Jianyu Guan Dr. Rose Gong	Peony Room (LL2) Dr. Aik Chong Lua Professor Pierre le Cloirec	Magnolia Room (LL2) Professor Mary D. Zalesny Dr. Jimmy Yu
14:10	Rock Mill Dust Removal by Wetted Screen Dr. Sirikallaya Suwachittanont Kasetsart University, Thailand p. 617	Carbon Dioxide Methanation over Yttria-doped Ceria/ γ -Alumina Supported Nickel Catalyst Professor Ta-Jen Huang National Tsing Hua University, Taiwan p. 263	Energy and Environmental indicators in the Thai Textile Industry Dr. S. Kuma Asian Institute of Technology, Thailand p. 524
14:30	Characteristics and Efficiency of Hydrogen Sulfide Removal with Heteropoly Compound Absorbent in a Packed Column Dr. Rui Wang Hainan University, China p. 279	Removal of Volatile Organic Compounds by Activated Carbon Dr. Wenhui Yuan South China University of Technology, China p. 284	Environmental Impacts of Building Energy Codes of Energy Management on Building Services Installations Dr. Andy Chan University of Hong Kong p. 192
14:50	Treating Fresh Air: Options and Uses Mr. Deepak Pahwa Bry-Air Asia PVT LTD., India p.460	A Simple Method for Developing Mesoporosity in Activated Carbon Dr. Zhonghua Hu Tongji University, China p. 321	
15:10	Study on the Application of a New High Efficiency and Low Pollution Combustion Technology Mr. Yonghua Li North China Electric Power University, China p. 304		

15:30-16:00 Afternoon break — Grand Ballroom Pre-Functional Foyer (LL1)

16:00-17:00 Panel discussion session: **Sustainability in the Asia Pacific Region**
Chair Professor Po Lock Yue (Head of Chemical Engineering Department, HKUST)
Members Professor Paul Greenfield (Deputy Vice-Chancellor, University of Queensland)
Professor Ya-Hui Zhuang (Chinese Academy of Science)
Mr. Mike J. Stokoe (Deputy Director of Environmental Protection, Hong Kong SAR Government)
Ms. Christine Lo (Former HKSAR Legislative Councilor on the Environment)
Mr. Chandran Nair (Managing Director, Environmental Resources Management)
Venue: Fanling Room (LL1)
17:00 Official close

For your information

Conference venue

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Name Badges

Please wear your name badge at all times. It is your admission pass to conference sessions and morning and afternoon breaks. If you misplace your name badge simply ask at the conference registration desk for a replacement.

Tickets

Tickets for lunches and banquet are included in your registration envelope. Entry to functions is by ticket only. If you misplace your ticket or do not have tickets for functions you wish to attend, please advise staff at the conference registration desk. Extra tickets are sold at the price of US\$30 per lunch or reception, and US\$50 for banquet.

Book of proceedings

Additional proceedings is sold at US\$50 per book.

Speakers Audio Visual Testing Room

The speakers audio visual testing room is located in Harbour Room I (Level M, one level above the lobby) on Monday (4 December), Laurel Room (Level LL1) on Tuesday and Wednesday (5-6 December). The opening time is 8:30-16:00 daily. It can be used for the preview of your presentation (Overhead projector, 35 mm Slides, Powerpoint), free local telephone calls, email checking and internet access.