

Preliminary Program

Southeast Asia Environmental Forensics Conference

Monday, September 19, 2005

Period Schedule

Monday Plenary Session Moderator: Zhendi Wang/ Environment Canada		
Period	Speaker	Abstract
7:30 - 8:30		Registration
8:30 - 9:00	R. Morrison/ DPRA, Inc. - U.S.A., Dr. Yu	Welcome and Introduction
9:00 - 9:40	Schau-ping Chang/ Environmental Analysis Lab, EPA - TAIWAN	Application of Environmental Forensics in Establishing a National Fingerprinting Database
9:40 - 10:20	Xinming Wang/ Guangzhou Institute of Geochemistry - CHINA	Diagnostic Sources of Volatile Organic Compounds in the Pearl River Region
10:20 - 10:30		Break and Refreshments
10:30 - 11:15	Sang-Hee Hong/ South Sea Institute, KORDI - REPUBLIC OF KOREA	Regional Characteristics and Pollution Sources of PCBs in Sediments of Industrialized Bays in Korea
11:15 - 12:00	Fatima Meninconi/ PETROBRAS S.A. - BRAZIL	Hydrocarbon Source Allocation in Sediment of Tropical Ecosystems
12:00 - 1:00		Lunch

Monday Session A - Sediments Moderator: Pih Wang		
Period	Speaker	Abstract
1:00 - 1:30	Shigeki Masunaga/ Yokohama National University - JAPAN	Historical Trends of Dioxin Sources to the Sediment Pollution in Tokyo Bay, Japan
1:30 - 2:00	Ruchaya Boonyatumanond/ Environmental Research & Training Center - THAILAND	Historical Trends of Polychlorinated Biphenyls Concentrations in Sediment Cores from the Upper Gulf of Thailand
2:00 - 2:30	Chin Man Mok/ Geomatrix Consultants, Inc. - U.S.A.	Using PCA to Evaluate Impacts of Hydrocarbon Sources in Fluvial Sediments
2:30 - 2:45		Break and Refreshments
2:45 - 3:15	Xianzhi Peng/ Guangzhou Institute of Geochemistry - CHINA	Temporal Distribution of Endocrine Disrupting Compounds in Pearl River Delta, South China
3:15 - 4:00	Tihua Gu/ Xiamen University - CHINA	The Potential Biodegradation Activity of PAHs in Surface Sediments of Quanzhou Bay, China
4:00 - 4:30	Yunpeng Wang/ Guangzhou Institute of Geochemistry - CHINA	Integrating ASTER Data, GIS and AnnAGNPS for Non-Point Source Pollution Assessment in Longmen River, China
4:30 - 5:00	Nancy Bixian Mai/ Guangzhou Institute of Geochemistry - CHINA	Polybrominated Dipheyl Ethers (PBDEs) in Environment of the Pearl River Delta, South China
5:00		Adjourn

Monday Session B - Air Moderator: Shiao-Shing Chen		
Period	Speaker	Abstract
1:00 - 1:30	L. Y. Chan/ Hong Kong Polytechnic University - HONG KONG	Preliminary VOC Characterization in Industrial Emission in the Pearl River Delta Region
1:30 - 2:00	Gan Zhang/ Guangzhou Institute of Geochemistry - CHINA	Assessing Sources and Long-Range Atmospheric Transport of Organochlorine Pesticides at a Regional Scale
2:00 - 2:30	Kazuichi Hayakawa/ Kanazawa University - JAPAN	Atmospheric Contamination of PAHs and Nitro-PAHs in Northeast Asia
2:30 - 2:45		Break and Refreshments
2:45 - 3:15	Y. C. Ling/ National Tsing Hua University - TAIWAN	Source Identification of Abnormal Ambient Air Nearby Industrial Parks Using Sensory and Chemical Fingerprints
3:15 - 4:00	Thomas E. McHugh/ Groundwater Services, Inc. - U.S.A.	Indoor Air as a Source of VOC Contamination in Shallow Soil Below Buildings
4:00 - 4:30	Chitsan Lin/ National Kaohsiung Marine University - TAIWAN	Application of Open-Path FTIR for Pollution Source Identification and the Characterization of Source Emission Behavior
4:30		Adjourn

Monday Session C - Soil, Sediments and Water Moderator: Gan Zhang/ Guangzhou Institute of Geochemistry		
Period	Speaker	Abstract
1:00 - 1:30	K. T. Lee/ National Tsing Hua University - TAIWAN	Statistical Analysis of Groundwater Quality of Keelung City
1:30 - 2:00	Gil Oudijk/ Triassic Technology, Inc. - U.S.A.	Potential Application of Dendroecology as a Tool to Age Date Soil Contamination
2:00 - 2:30	Pham Hung Viet/ Hanoi National University - VIETNAM	POP and Arsenic Contamination in Asia Pacific Waters
2:30 - 2:45		Break and Refreshments
2:45 - 3:15	Won Joon Shim/ South Sea Institute, KORDI - REPUBLIC OF KOREA	Environmental Impact Assessment of Tributyltin in Sediments Used in Antifouling Paints in the Ship Building Industry
3:15 - 4:00	L. J. Tsai/ Chia-Nan University of Pharmacy & Science - TAIWAN	Variation in Metal Binding Fractions in Six River Sediments, Southern Taiwan
4:00 - 4:30	Lih-Jiuan Sheu/ ITRI - TAIWAN	Establishment of Fingerprinting Techniques of Ash in the Steel Industry: A Case Study
4:30		Adjourn

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Tuesday, September 20, 2005

Period Schedule

Tuesday Plenary Session Moderator: Shuh Woei Yu		
Period	Speaker	Abstract
8:15 - 8:30	Shuh Woei Yu	Introduction to Plenary Session
8:30 - 9:00	Fawzia Mubarak/ NRC, EAEA - EGYPT	Statistical Evaluation of Different Sigma Schemes for Estimating the Dispersion of Air Pollutant
9:00 - 9:40	Jean-Fu Wang/ ITRI - TAIWAN	Application of Fingerprinting Techniques in the Industrial Sectors of Opto-Electronics, Semiconductor and Printed Circuit Boards
9:40 - 10:20	Diane Saber/ Gas Technology Institute - U.S.A.	Application of Forensic Chemistry Techniques for PAH Source Identification: Three Case Studies
10:20 - 10:30	Break and Refreshments	
10:30 - 11:15	Masafumi Tamada/ Yokohama National University - JAPAN	Source Apportionment of PCBs in Tokyo Bay Sediment Based on Congener Specific Data
11:15 - 12:00	S. C. Lee/ Hong Kong Polytechnic University - HONG KONG	Source Apportionment of PM2.5 in Urban Area of Hong Kong by Receptor Modeling
12:00 - 1:00	Lunch	

Tuesday Session A - Petroleum Hydrocarbons Moderator: Won Joon Shim/ South Sea Institute, KORDI		
Period	Speaker	Abstract
1:00 - 1:30	John Leeder/ John Leeder Consulting - AUSTRALIA	Fingerprinting of Bunker Fuel Oils
1:30 - 2:00	Un-Hyuk Yim/ South Sea Institute, KORDI - REPUBLIC OF KOREA	Fingerprinting of Spill Sources in Marine Spills in Korea
2:00 - 2:30	Ken Scally/ Alcontrol Laboratories Ireland IRELAND	Advances in the Forensic Identification of Petroleum Related Releases into the Environment
2:30 - 2:45	Break and Refreshments	
2:45 - 3:15	Shan-Tan Lu/ ZymaZ Forensics - U.S.A.	Heavy Hydrocarbons Contamination: Identification & Weathering Characteristics
3:15 - 4:00	Xiang-dong Li/ The Hong Kong Polytechnic University - HONG KONG	Metal Contamination in Sediments of Victoria Harbour, Hong Kong
4:00 - 4:30	Robert Haddad/ Applied Geochemical Strategies, Inc. - U.S.A.	Use of Alkylated PAH Source Parameters in Environmental Forensic Studies
4:30 - 5:00	Gwen O'Sullivan/ Queen's University-Belfast - IRELAND	Isotopic Fingerprinting of Fuels and Its Application to Source Identification
5:00	Adjourn	

Tuesday Session B - Analytical Moderator: Diane Saber/ Gas Technology Institute		
Period	Speaker	Abstract
1:00 - 1:30	Thiam Bon Lim/ Health Sciences Authority - SINGAPORE	Application of Hollow Fibre-Based Liquid-Phase Microextraction to Forensic Samples
1:30 - 2:00	Carl Hensman/ Frontier Geosciences, Inc. - U.S.A.	In-Field Digestion Method for Cd, Hg, Pb in Paint, Blood and Saliva
2:00 - 2:30	Chitsan Lin/ National Kaohsiung Marine University - TAIWAN	Applications of P&T GC/MS Methods for VOC Spatial and Temporal Characterization of the Houjin River
2:30 - 2:45	Break and Refreshments	
2:45 - 3:15	Youn Yuen Shu/ National Kaohsiung Normal University - TAIWAN	Analysis of Semi-Volatile Compounds in Aqueous Samples by Microwave Assisted Headspace Solid-Phase Microextraction
3:15 - 4:00	Denny Huang/ SGS Taiwan Ltd - TAIWAN	The Technique of Analyzing the Chemical Composition of Environmental Contaminants
4:00 - 4:30	Peiyan Sun, Zhenhui Gao/ North China Sea Monitoring Center - CHINA	Fingerprint Database Construction of Bohai Sea Crude Oil
4:30	Adjourn	

Tuesday Session C - Air, Soil & Biological Moderator: Minato Hideo/ The University of Tokyo & Hyogo University of Teacher Education		
Period	Speaker	Abstract
1:00 - 1:30	Robert Haddad/ Applied Geochemical Strategies, Inc. - U.S.A.	PAHs in Mussel Tissues
1:30 - 2:00	Olaf Paepke/ Ergo Research - GERMANY	Occurrence of PBDEs in Fish Samples of Various Origins
2:00 - 2:30	Kamsia Budin/ University Malaysia Sabah - MALAYSIA	Behavioral Changes and Histopathology of the Gill Tissues of Catfish Africanus, Clarias Gariepinus Exposed to Endosulfan
2:30 - 2:45	Break and Refreshments	
2:45 - 3:15	Rai Kookana/ CSIRO Land & Water - AUSTRALIA	Environmental Forensics for Trace Organic Contaminants in Environment: Role of Black Carbon
3:15 - 4:00	Yong Zhang/ Xiamen University - CHINA	Study on the Environmental Behaviour of Dissolved Anthracene and Pyrene in Aqueous Solution by Fluorimetry
4:00 - 4:30	C. S. Chen/ National Kaohsiung Normal University - TAIWAN	GC-MS Interpretation of Subsurface Hydrocarbons in the Petroleum Contaminated Site of Southern Taiwan
4:30	Adjourn	

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Wednesday, September 21, 2005

Period Schedule

Wednesday Plenary Session Moderator: Y. F. Liang		
Period	Speaker	Abstract
8:15 - 8:30	Y. F. Liang	Introduction to Plenary Session
8:30 - 9:10	Paul Philp/ University of Oklahoma - U.S.A.	The Evolution of Stable Isotopes in Environmental and Forensic Geochemistry Studies
9:10 - 9:45	J. R. Shao/ National Tsing Hua University TAIWAN	Stable Carbon Isotope Measurement of Organic Solvents: Development and Application for Supplier Identification in Taiwan
9:45 - 10:20	Andrea Hinwood/ Edith Cowan University - AUSTRALIA	Assessing Biomarkers of Woodsmoke Exposure
10:20 - 10:30	Break and Refreshments	
10:30 - 11:15	Ms. Kelly Wrighton/ California Polytechnic State University - U.S.A.	Bacterial Community Structure Response to Petroleum Concentrations in Groundwater
11:15 - 12:00	Zhendi Wang/ Environment Canada - CANADA	Application of Sesquiterpanes to Source Identification of Spilled Petroleum Products
12:00 - 1:00	Lunch	

Wednesday Session A - Characterization & Remediation of Organic Contaminants (I) Moderator: Feng-Teng Chang		
Period	Speaker	Abstract
1:00 - 1:30	Hideo Minato/ The University of Tokyo & Hyogo University of Teacher Education - JAPAN	New Remediation Technology for Contaminated Groundwater and Surface Water With Application of "TRP", Mineral Aggregate
1:30 - 2:00	Hui Chen/ Northwest Normal University - CHINA	Removal of Heavy Metal From Wastewater Irrigated Soils by Bio-Surfactant
2:00 - 2:30	M. H. Abdullah/ University Malaysia Sabah - MALAYSIA	Assessing Major Ions Behavior in a Disturbed Aquifer of Oceanic Island - Sipadan, Malaysia
2:30 - 2:45	Break and Refreshments	
2:45 - 3:15	Hongming He/ Xi'an Institute of Earth Environment - CHINA	Vegetable Contamination Responses to Environmental Pollution in Xi'an
3:15 - 4:00	Han-Yong Jeon/ INHA University - KOREA	Assessment of Field Applicability of PVA Related Geotextile Composites for Waste Landfill
4:00 - 4:30	Yu Tian/ Harbin Institute of Technology - CHINA	Application of Bacterial Extracellular Polymeric Substances from Activated Sludge for Metal-Contaminated Soil Remediation
4:30	Adjourn	

Wednesday Session B - Characterization & Remediation of Organic Contaminants (II) Moderator: S. C. Lee/ Hong Kong Polytechnic University		
Period	Speaker	Abstract
1:00 - 1:30	Tianling Zheng/ Xiamen University - CHINA	Degradation Activity of BaP by Mangrove Microbial Consortium
1:30 - 2:00	Hideo Minato/ The University of Tokyo & Hyogo University of Teacher Education - JAPAN	New Remediation Technology for Contaminated Soils with Application of "Sealing Soil Technology", Mineral Aggregate
2:00 - 2:30	Kun Zhu/ Lanzhou Jiaotong University - CHINA	Sorption and Desorption Behaviors of 2,4-Dichlorophenol on Loess Soils
2:30 - 2:45	Break and Refreshments	
2:45 - 3:15	Zueng-Sang Chen/ National Taiwan University - TAIWAN	The Feasibility of Using Phytoextraction to Restore Metals-Contaminated Soils in Taiwan
3:15 - 4:00	Zheng Zheng/ Nanjing University - CHINA	A Study on Degradation of Disinfection By-Products of Chlorination in Drinking Water by 60Co-r Ray
4:00 - 4:30	T. W. Fogwell/ Fluor Hanford - U.S.A.	Long-Term Performance Monitoring of Metals and Radionuclides in the Subsurface at the Hanford Site
4:30	Adjourn	

Wednesday Session C - Forensic Workshops Moderator: Fatima Meniconi/ PETROBRAS S.A.		
Period	Speaker	Abstract
1:00 - 2:15	Diane Saber/ Gas Technology Institute - U.S.A.	Workshop 1 - Environmental Forensic Chemistry Techniques for PAH Identification
2:15 - 3:30	Stephen Mudge/ University of Wales-Bangor	Workshop 2 - Signature Analysis by Statistical Methods: Chemometric Methods for Source Allocation
3:30 - 4:30	Shan Tan Lu/ ZymaX Forensics - U.S.A.	Workshop 3 - Fuel Type Characterization of Hydrocarbons
4:30 - 5:00	Closing Ceremony	
5:00	Conference Adjournment	