

CESE 2011

The Fourth Annual Conference on the
Challenges in Environmental Science and Engineering

25 - 30 September 2011
Tainan City, Taiwan

Conference Program



Day 1

Sunday, September 25, 2011

14:00 - 18:00 Registration/ Poster Preparation

18:00 - 20:00 Welcome drinks

List of Posters

- A009-Substrate removal kinetics of an anaerobic hybrid reactor treating pharmaceutical wastewater **Mullai Pandian**
- A013-Correlation between turbidity and total suspended solids in Singapore rivers **Handojo Djati Utomo**
- A015-Towards standardised assessment of water reclamation scheme and technology **Huu Hao Ngo**
- A037-Application of bioaugmentation in the intermittent aerated biological filter treatment of hypersaline wastewater by marine halophilic bacteria **Weizhi Zhou**
- A043-Substrate-specific titania from Ti-salt flocculated sludge under solar light irradiation **Ho Kyong Shon**
- A044-Adsorption of humic acid on iron doped titanium dioxide with magnetic characteristics **Jong-Ho Kim**
- A045-Magnetised titanium dioxide (TiO₂) for water purification: preparation, characterisation, and application **Jong-Ho Kim**
- A046-Use of desalination technologies for inland saline groundwater treatment –Murray Darling Basin in Australia **Ho Kyong Shon**
- A048-Effect of dosing sequence and solution pH on floc properties of the compound bioflocculant-aluminum sulfate dual-coagulant in kaolin-humic acid solution treatment **Baoyu Gao**
- A049-Nitrous oxide and methane emissions from different treatment processes in full-scale municipal wastewater treatment plants **Wenlin Jia**
- A054-Comparison of the efficiency of two-stage batch adsorber design in minimization adsorbent amount for dye removal using two epichlorohydrine-dimethylamine-based adsorbents **Qinyan Yue**
- A069-Landfill leachate treatment by an anoxic-oxic MBR with polyethylene sponge as a bio-carrier in anoxic unit **Kulchaya Tanong**
- A080-A transconjugative plasmid involved degradation of dibenzofuran by a newly isolated *Rhodococcus* sp. **Peng Peng**
- A094-Distribution of butyltins in sediments of the Ocean Disposal Site of Kaohsiung Harbor **Cheng Di Dong**
- A097-Sustainable Management Strategies for a Urban-type and Low Dissolved Oxygen Stream Using In-situ Measured Biochemical Coefficients **Yi-Chu Huang**
- C008-Facile synthesis of TiO₂/microcrystalline cellulose nanocomposites: photocatalytically active material under visible light irradiation
- C009-Transport in electro-treated anaerobic granular sludge: effect of drying, temperature and glutaraldehyde addition **Jurate Virkutyte**
- C020-Characteristics of various red mud granular adsorbents (RMGA) for competitive sorption of orthophosphate and pyrophosphate **Qinyan**
- C028-Preparation of activated carbon from cotton linter fibers with fused NaOH activation and its application for oxytetracycline (OTC) adsorption **Qinyan Yue**
- C031-Recovery of palladium(II) from acidic chloride solution using kerosene containing tri-n-octyl/decyl amine (alamine 336) **Chen-Yu Peng**
- C037-Stoichiometry can help understand the major mechanism of chloramine decay **Arumugam Sathasivan**
- C050-Discussions of performance of packed-bed absorber by the equilibrium conditions between absorbent and VOCs **Hung-Ta Wu**
- C055-Recovery of cupric oxide from copper-containing sludge by acid leaching and ammonia purification process **Wei-Sheng Chen**
- C063-The effects of a tidal current turbine installed behind the sluice gates of the Shiwa tidal power plant **Lee Ho Hyun**
- C073-Column study on the Cr(VI) removal and recovery using modified corn residue **Qinyan Yue**
- D010-Effect of powdered activated carbon (PAC) and cationic polymer on biofouling mitigation in hybrid MBRs **S. Jamal Khan**
- D012-Surface functionalization and characterization of carbon nanofibers: phenol adsorption study **V. Jegatheesan**
- D015-Evaluation of a sponge tray – membrane bioreactor hybrid system for primary treated sewage effluent treatment **Huu Hao Ngo**
- D016-Optimization of an integrated sponge – granular activated carbon fluidized bed bioreactor in secondary sewage treatment **Huu Hao Ngo**
- D021-Simultaneous Nitrification Denitrification in a granulation coupled airlift membrane bioreactor **Chettiyappan Visvanathan**
- D033-Application of Air-cathode Pipe Reactor to Simultaneously Suppress Sulphate Reduction and Accelerate COD Oxidation in Synthetic Wastewater **Hanieh Aboutlabi**
- D039-Fouling mitigation in submerged membrane bioreactor treating dyeing and textile wastewater **Bui Thanh**
- D049-Role of P15DAAQ as electrocatalyst in electro-Fenton degradation of bromamine acid **Mingming Gao**
- D053-Kinetics and mechanism of ethylenediamine in supercritical water **Fang Gui Chen**
- D065-Fouling evaluation of an anoxic-oxic MBR treating landfill leachate by modified fouling index **Kulchaya Tanong**
- D070-Evaluating membrane technology for clarification of cane sugar juice: a review **Greg Keir**
- D078-Degradation of di(2-ethylhexyl)phthalate in aqueous solution by UV and UV/H₂O₂ advanced oxidation processes **Hye Won Jeon**
- D087-Evaluation of MBR with PAC for its ability to remove Effluent Organic Matter **Arumugam Sathasivan**
- D089-Fouling in reverse osmosis (RO) membrane in water recovery from secondary effluent - A Review **Li Shu**

Day 2

Monday, September 26, 2011

- 8:30-8:35** Welcome Speech by the Chairman of CESE-2011
8:35-8:40 Welcome Speech by the Co-Chairman of CESE-2011
8:40-8:50 Welcome Speech by Tainan City Mayor (to be confirmed)
8:50-9:00 Welcome Speech by the Vice Chancellor of Chia Nan university of Pharmacy and Science (to be confirmed)
9:00-9:30 Keynote Speech by Professor Chin-Pao Huang, University of Delaware, USA
9:30-10:00 Keynote Speech by Dr. Souhail R. Al-Abed, USEPA Office of Research and Development, Cincinnati, USA
10:00-10:30 Keynote Speech by Professor Yoshimasa Watanabe, Hokkaido University, Japan

10:30-11:00 MORNING TEA

- 11:00-11:30** Keynote Speech by Professor Guanghao Chen, Hong Kong University of Science and Technology, Hong Kong
11:30-12:00 Keynote Speech by Professor Jo-Shu Chang, National Cheng Kung University, Taiwan
12:00-12:30 Keynote Speech by Assoc. Professor Jega V Jegatheesan, Deakin University, Australia

12:30-14:00 LUNCH

	Stream 1 (Theme 1)	Stream 2 (Theme 2)	Stream 3 (Theme 3)
14:00-14:20	C045-Environmental benefits analysis of tertiary wastewater treatment for reuse: A case study in Xi'an, China Xiao Chang Wang	B026-Effects of bed depth on nitrification in a vertical subsurface flow constructed wetland system Suwasa Kantawanichkul	C058-Recovery of nutrients (P and N) as valuable material from wastewater by ion exchange resin Saravanamuthu Vigneswaran
14:20-14:40	A033-Water quality deterioration due to variation in the production rate of advanced water treatment plant for smart water grid Suhan Kim	B011-The potential of Yucca schidigera extract to reduce the ammonia pollution from shrimp farming Yew-Hu Chien	C080-Catch crop cultivation for diffuse agricultural pollution control and resource recovery Taku Fujiwara
14:40-15:00	A016-Risk control and environment based assessment of recycled water schemes in Australia Wenshan Guo	B010-Contemporary carbon balance and carbon sequestration in a constructed wetland system treating campus wastewater Ying-Feng Lin	C061-Correlation between bio-hydrogen production and polyhydroxybutyrate (PHB) synthesis by Rhodospseudomonas palustris WP3-5 with six substrate utilizations Chi-Mei Lee/Siang Chen Wu
15:00-15:20	A058-Potential of wastewater reclamation to reduce fresh water stress in Ho Chi Minh City-Vietnam Nguyen Phuoc Dan	B020-Oxygen dynamics during ammonium stress in Phragmites australis Jing Tao Xu	C044-Integrated energy-water systems: The role of membrane technology Long D Nghiem
15:20-15:40	AFTERNOON TEA		
15:40-16:00	A061-Screening and molecular identification of marine organisms for advancing omega-3-biotechnology Munish Puri	B004-Treatment of dairy farm wastewater by a subsurface flow constructed wetland system in tropical climate Suwasa Kantawanichkul	C013-Bioenergy recovery from organic residues in a rice-straw-bioethanol process Liang-Ming Whang
16:00-16:20	A089-Analysis of different targeted 16s rDNA fragments from the sludge with anaerobic microbes and optimization of DGGE fingerprinting Li Wei	B009-Methane emission from a constructed wetland system treating campus wastewater Ying-Feng Lin	C057-Cost risk and GHGs emissions intensity of electricity generation: a LMDI approach Kun-Jung Hsu
16:20-16:40	A065-Acrylic acid removal from synthetic wastewater by mixed strains and Bacillus subtilis NA1 in the batch reactor Chun-Chin Wang	B023-Interactions between PAH biodegradation with nonionic surfactant in soil/water systems Yi-Tang Chung	C001-Storage capacity of geothermal resources in gaoling group over the eastern half of Xi'an depression Yun Feng Li
16:40-17:00	B002-Binding of the Veterinary Drug Tetracycline to Bovine Hemoglobin and Toxicological Implications Ru-Tao Liu	D034-Analysis of microwave-zerovalent iron system for aqueous phase carbofuran removal Jih-Gaw Lin	B015-Kinetics and thermodynamic study of phosphate adsorption on oyster-shell waste Wan Ting Chen

Day 3

morning

Tuesday, September 27, 2011

	Stream 1 (Theme 1)	Stream 2 (Theme 4)	Stream 3 (Theme 3)
9:00-9:20	A024-Optoelectronic industrial wastewater treatment by completely autotrophic nitrogen removal over nitrite (CANON) process in a sequential batch reactor Jih-Ming Kao	D082-Reclamation of TCE-contained groundwater using a hybrid pre-treatment system Chih-Ming Kao	C018-Bio-hydrogen production enhancement by co-cultivation of <i>Rhodospseudomonas palustris</i> WP3-5 and <i>Anabaena</i> sp. CH3 with light utilization of complementary wavelengths Chi-Mei Lee
9:20-9:40	A007-Impact assessment of extra discharges of organics and nutrients into aquatic systems by entropy calculation Xiao Chang Wang	D007-Critical flux and dynamic monitoring of fouling distribution in submerged hollow fiber membrane via UTDR Jianxin Li	C012-Fermentative biohydrogen production from lactate and acetate Liang-Ming Whang
9:40-10:00	A086-Effective removal of various phosphates using Ca-based layered double hydroxide materials Zhi Ping Xu	D055-Variations of short term critical flux of nonwoven and microporous MBR: Effects of MLSS concentration Shun-Hsing Chuang	C049-Effect of different pre-treatments on hemp (<i>Cannabis sativa</i>) and its enzymatic saccharification for biofuel production Reinu Abraham
10:00-10:20	A062-Relationship of intracellular storage compounds as well as OUR and N ₂ O emission during simultaneous nitrification denitrification process Jian Zhang	D092-Ultrasonic Irradiation Combined with Hydraulic Cleaning on Fouled PES and PVDF Membranes Chi-Chuan Kan	C014-Production of xylooligosaccharides from forest waste by membrane separation and <i>Paenibacillus campinensis</i> BL 11 xylanase hydrolysis Fang-Chih Chang
10:20-10:40	MORNING TEA		
10:40-11:00	A019-Contamination of toxic organic compounds in organic wastes and their fate of emission from solid waste disposal site Chart Chiemchaisri	D048-Effect of supplementary carbon addition in the treatment of low C/N High-technology industrial wastewater by MBR Pei Yun Lee	C043-Ammonia inhibition in dry thermophilic anaerobic digestion of organic fraction of municipal solid waste C. Visvanathan
11:00-11:20	A066-Heavy metal levels and solid phase speciation of road-deposited dusts in Sydney, Australia Thamer mohammed	D027-Removal of trace organic contaminants by a membrane bioreactor – activated carbon hybrid system Luong Nguyen	C002-Preparation of Ultra-lightweight sludge ceramics (ULSC) and application for soy protein advanced wastewater treatment in a biological aerobic filter (BAF) Qinyan Yue
11:20-11:40	A076-Evaluation of legume growth in the arsenic pollution acid soil using various pH soils amendments Jia-Twu Lee	D051-Effects of operating conditions on the removal of trace organic contaminants by submerged membrane bioreactors Abdulhakeem Alturki	C023-Ultrasound-assisted oxidative desulfurization (UAOD) process using phosphotungstic acid: effect of process parameters on sulfur removal Luisa Cyd Charisse Biel
11:40-12:00	A068-Effect of Cadmium ion concentration on the growth and microbial structure of biofilm in rotating biological contactor Meng-Ru Wu	D088-Model development and parameter estimation for a hybrid submerged membrane bioractor treating Ametryn Dimuth Navaratna	C035-Effects of methanotrophic activity and soil environments on biodegradation of Thiobencarb in paddy field soil Wilai Chiemchaisri
12:00-12:20	A020-Removal of Cr(VI) from low temperature micro-polluted surface water by tannic acid immobilized powdered activated carbon Wei-Guang Li	D020-Enhancement of toxic organic micro-pollutants removal in long-term operation of membrane bioreactor treating municipal solid waste leachate Chart Chiemchaisri	C036-Optimising the temperature for higher activity of microorganisms in microbial electrolysis cell (MEC) Hanieh Aboutalebi
12:20-12:40	A005-A study on in-situ test of purification effect on coal mine drainage Yunfeng Li	D086-Prediction of solute rejection and modelling of steady-state concentration polarisation effects in pressure-driven membrane filtration using computational fluid dynamics Greg Keir	C067-Effect of carbonate on anaerobic acidogenesis and fermentative hydrogen production from glucose using leachate as the supplementary culture under alkaline conditions Qiang Liu
12:40-14:00	LUNCH		

afternoon

Day 3

Tuesday, September 27, 2011

14:00-14:20	A083-Syzygium Cumini bark powder as biosorbent to remove Ni (II) from aqueous solutions A. Krishnaiah	D037-Treatment of TFT-LCD wastewater containing ethanolamine by fluidized-bed Fenton technology Ming-Chun Lu	C006-Kinetics model of free fatty acids continuous esterification in a fixed bed reactor packed with cation-exchange resin Jianxin Li
14:20-14:40	A018-Ni (II) adsorption on the interface of MgAl mixed oxide and MgAl hydrotalcite during the reconstitution process Jixin Su	D043-Photodesorption phenomenon in aqueous media: TiO ₂ and organic matter Ho Kyong Shon	C007-Continuous biodiesel production using an anion-exchange resin as heterogeneous catalyst in a fixed bed reactor Benqiao He
14:40-15:00	A093-Selectivity Sequence and Adsorption Mechanism of Multi-Metals in Aqueous Solution using Chitosan- Bentonite Composite Beads Meng-Wei Wan	D094-Phenol degradation by photocatalysis on synthesized nano-TiO ₂ : evolution of intermediates, organic acids, end-products, and toxicity Cheng-Di Dong	C062-The feasibility of biodiesel production by microalgae using industrial wastewater Chung Pei Chen
15:00-15:20	A012-Removal of methylene blue onto biochar of wood waste Ong Zhi Siong	D076-Degradation of acetaminophen by different Fenton processes Ming-Chun Lu	C046-Biodiesel synthesis via heterogeneous catalysis using modified strontium oxides as the catalysts Ching-Lung Chen
15:20-15:40	AFTERNOON TEA		
15:40-16:00	A071-Mass balance in aquaponics recirculation system for culturing African catfish: Effect of hydraulic loading rate Azizah Endut	D052-Selective transport of Cadmium by PVC/Alquat 336 polymer inclusion membranes (PIMs): the role of membrane composition and solution chemistry Long D Nghiem	C029-Anaerobic digestibility of algal ethanol fermentation residue Sang-Hyoun Kim
16:00-16:20	A030-Mediated oxidation of two sulfonamide antibiotics in pond water with laccase Hong-Thih Lai	D008-Research the effect of NOM and environmental conditions on PCP and BPA removal characteristics by nanofiltration membrane Xin-Feng Guo	C005-Evaluation of the notebook redesign based on a ecodesign practice of disassembly and cost analysis at its end-of-life stage Chih-Hao Fan
16:20-16:40	A008-Using benthic algae mat (bed) ecotechnology for low concentration of N and P nutrients control Shui-Ping Chang	D031-Size-fractionation of particles in stabilized leachate and its relationship to fouling of reverse osmosis membrane Weerapong	C059-Comparisons on light distribution and power performance of the c-Si BIPV modules under the day-lighting for building façade Hsuan-Jui Chen
16:40-17:00	A031-Fate of enrofloxacin in aquaculture sediment and the influence of liming Hong-Thih Lai	D036-Kinetic modeling of supercritical water oxidation of N-phenylglycinonitrile wastewater Jia Ming Zhang	C066-Effects of sewage sludge compost use on nutritive composition in the soil and Tall Fescue Dezhi Sun

Day 4 morning

Wednesday, September 28, 2011

	Stream 1 (Theme 1)	Stream 2 (Theme 4)	Stream 3 (Theme 3)
9:00-9:20	A095-Prediction of Rainfall-derived Inflow/Infiltration Using Time-series Models KyooHong Park	D014-Optimized operation of an A2O-MBR system in cold climate for domestic wastewater treatment and reuse Xiao Chang Wang	C041-Utilization of spent activated carbon to enhance the combustion efficiency of organic sludge derived fuel Fang-Chih Chang
9:20-9:40	A075-Application of Neuro-fuzzy PID controller for effective post-chlorination in water treatment plant Lee Ho Hyun	D059-The BNR-MBR (biological nutrient removal - membrane bioreactor) for nutrient removal from department store wastewater in hot climate region Chavlit Ratanatamskul	C056-Recovery of copper and zinc oxide from copper-containing dust with selective leaching process Wei-Sheng Chen
9:40-10:00	A098-Controlling of Assimilable Organic Carbon (AOC) Concentrations in a Water Distribution System Jie-Chung Lou	D090-Impact of herbicide Ametryn on microbial communities in mixed liquor of a membrane bioreactor (MBR) Dimuth Navaratna	C072-Biosynthesis of gold nanoparticles using palm oil mill effluent (POME) Pei Pei Gan
10:00-10:20	A006-Removal of acid and direct dye by epichlorohydrin-dimethylamine: flocculation performance and floc aggregation properties Baoyu Gao	D035-Influence of biofilm careers on membrane fouling propensity in hybrid biofilm membrane bioreactor (BF-MBR) S. Jamal Khan	C024-Extraction of Indium(III) from nitric acid solutions by di(2-ethylhexyl)phosphoric acid dissolved in kerosene Huang-Sheng Tsai
10:20-10:40	MORNING TEA		
10:40-11:00	A082-Antibiotic resistance of Escherichia coli in leachates from municipal solid waste landfills comparison between semi-aerobic and anaerobic operations Wilai Chiemchairi	D006-Modification of coal-based carbon membranes by wet oxidation Jianxin Li	C027-Effects of flashing light in cultivation of marine microalgae (Chlorella sp.) utilizing airlift photobioreactor Ahmad Jusoh
11:00-11:20	A072-Toxic effects of wastewater pollutants on embryo development of crucian carp (Carassius auratus L.) exposed to wastewater treatment plant effluents Jian Zhang	D042-Performance of commercial bulk fertilisers as draw solution for forward osmosis desalination Ho Kyong Shon	C065-Preparation and characterization of activated carbon from melon seed oil (Citrullus vulgaris) residue via microwave induced NaOH activation Keng Yuen Foo
11:20-11:40	A073-Toxicological effects of wastewater treatment plant (WWTP) effluent on common carp (Cyprinus carpio L.) Jian Zhang	D028-Performance of a novel osmotic membrane bioreactor system: flux stability and removal of trace organics Abdulhakeem Alturki	C015-Feasibility study of palm oil fruit shells as biosorbent for copper removal from water and wastewater Md. Anwar Hossain
11:40-12:00	A028-Microbial characterization of biofilm in azo dye wastewater treated by photo-rotating biological contactor Xing-zu Wang	D047-Study on dehydration of TFP solutions by pervaporation process Jie-Cheng Tsai	C075-Research on absorption of ammonia by Nitric acid modified bamboo charcoal Chun-Ying Li
12:00-12:20	A034-UASB- A/O- BAF treatment of high strength wastewater: A case study for soybean protein wastewater Fan Gui Chen	D005-Study on chitosan/modified silica particles/3A zeolite hybrid membranes for pervaporation Tai-Hsiang Chen	C068-Effective phosphate uptake and inhibition on M.aeruginosa by Friedel-based adsorbent Yunfeng Xu
12:20-12:40	A090-Composition and Dynamics of Sulfate Reducing Bacteria during the Polymerflooding Process in the Oil Field Application Li Wei	D026-Carbon recovery and photosynthetic bacteria cultivation in an anaerobic membrane photo-bioreactor treating food processing wastewater Chart Chiemchairi	C039-Effect of light intensity and nitrogen starvation on CO2 fixation and carbohydrate production by an indigenous microalga Scenedesmus obliquus CNW-N Ching-Lung Chen
12:40-14:00	LUNCH		

afternoon

Day 4

Wednesday, September 28, 2011

14:00-14:20 A040-Application of upflow multi-layer bioreactor (UMBR) for domestic wastewater treatment in HCMC **H.S. Shin**

14:20-14:40 A056-Synthesis of poly(3-hydroxybutyrate-co-3-hydroxyvalerate) from propionate-fed activated sludge under various carbon sources **Hsuan-Fang Chang**

14:40-15:00 A078-Applying commercial composts for deca-bromodiphenyl ether biodegradation **Yi-Tang Chang**

15:00-15:20 A025-The fractal-like characteristics and mechanisms of the cationic red X-GRL biosorption by anaerobic sludge **Bin Qiu**

15:20-15:40

AFTERNOON TEA

15:40-16:00 A039-Assessment on the THMs formation potential of Sai Gon River water **Nguyen Phuoc Dan**

16:00-16:20 A085-Ionic liquid based hollow fiber supported Liquid phase microextraction of UV filters from environmental water samples **Dan Dan Ge**

16:20-16:40 A070-Effects of soil organic matter and ageing on diesel-contaminated soil remediation **Pao-Wen Grace Liu**

16:40-17:00 D032-Leaching control of Mo in Mo-Zn-Al-O catalyst by catalytic wet air oxidation of cationic red GTL wastewater and its mechanism **Dezhi Sun**

D001-Research of anaerobic treatment coupled with micro-electrolysis and its electrochemical improvement in treatment of dye wastewater **Xin Hua Wang**

A088-Population Composition and Component Analysis of Microorganism in Attachment of Electric Dehydrator **Zhe Wang**

D073-Treatment of landfill leachate by Fenton-like process and post-treatment evaluation through GAC-biofiltration **Chia-Yuan Chang**

D056-Preparation of cuprous oxide to degrade 4,4-isopropylidenediphenol by photofenton-like process **Cheng Chun He**

D040-Removal of non-biodegradable organic matters from membrane bioreactor permeate by oxidation processes **Bui Xuan Thanh**

D080-Interaction of Isothermal Phase Inversion and Membrane Formulation for Pathogens Detection in Drinking Water **S.C. Low**

C004-Screening, isolation and characterization of cellulose degrading bacteria **Chihhao Fan**

C038-Morphology responses and biomass production of maize (*Zea mays*) exposed to cadmium stress **Huayong Zhang**

C033-Effects of light sources on growth and carotenoids content of photosynthetic bacteria *Rhodospseudomonas palustris* **Yew-Hu Chien**

C026-Phytoremediation of aquaculture wastewater of Silver Barramundi, *Lates calcarifer*, utilizing green microalgae, *Chlorella* sp. **Ahmad Jusoh**

C034-Biodegradation enhancement of used automobile lubricant in contaminated soil using purple guinea grass (*Panicum maximum*.TD58) **Wilai Chiemchaisri**

C060-Properties of fly ash from circulating fluidized bed incinerators of municipal solid waste and coal **Jianxin Su**

C076-Study on Corrosion Inhibition and Adsorption Thermodynamic of Sodium Tripolyphosphate on Pure Aluminum in Sodium Hydroxide **Chun-Ying Li**

C053-Comparison of various mineral catalysts on enhancement of energy yield efficiency in a low-temperature catalytic gasification of sawdust biomass **Cheng-Han Lu**

Day 5 morning

Thursday, September 29, 2011

	Stream 1	Stream 2	Stream 3
9:00-9:20	C051-High yield biobutanol production by solvent –producing bacterial microflora Ching-Lung Chen	D071-Clarification and concentration of sugar cane juice through low and high pressure membranes Li Shu	A060-Green-synthesis of gold nanoparticles by leaf extract of Cinnamomum parthenoxylon for catalytic reduction of 4-nitrophenol Ganesh Parshetti
9:20-9:40	A079-Algicidal activity of a newly isolated Aeromonas sp. Li Li	D058-Performance of anaerobic baffled reactor (ABR) for COD and sulfate removal from concentrated latex wastewater Chavlit Ratanatamskul	D029-Low-temperature hydrothermal synthesis of N-doped TiO ₂ from small-molecule amine systems and their photocatalytic activity Nan Bao
9:40-10:00	B006-Preliminary study on Zebra fish's DNA exposure to Di-2-ethylhexyl phthalate Effects Jia-Twu Lee	D077-Pilot plant study on the treatment of indigo wastewater by two kinds of combined processes Dezhi Sun	A091-Characterization of new nano/sub-micron tourmaline copper inorganic powder and Research of sulfate- reducing bacteria inhibition Ting Zhou
10:00-10:20	C054-A novel tar reduction technology on enhancement of efficiency of energy yield and tar transformation in a catalytic gasification of paper-rejected sludge Cheng-Han Lu	D009-Adsorption of trace levels of bromate from aqueous solution with crystalline akaganeite Weizhi Zhou	D054-Influence of physicochemical properties on TCE dechlorination by bimetallic Ni/Fe nanoparticles immobilized on polyethylene glycol-grafted membrane Ganesh Parshetti
10:20-10:40	MORNING TEA		
10:40-11:00	A051-Removal of ammonium from aqueous solution by slag, honeycomb-cinder and coal gangue Huayong Zhang	B003-Contribution of Polycyclic aromatic hydrocarbons from land based activities to urban receiving waters Jananka Gunawardena	A001-Solubilization and transformation of heavy metals in binding fractions of contaminated river sediment via bioleaching: effect of soluble thiosulfate ions Li-Chu Tsai
11:00-11:20	A077-Denitrification of glycogen accumulating organisms from an anaerobic-oxic activated sludge system fed with phosphorus-limiting substrate Wei-Chin	A002-Variation of physicochemical parameters at contaminated river sediment via bioleaching Li-Chu Tsai	D079-Removal of toxic metal ions by sorption onto novel membranes from carbohydrate polymers K.S.V. Krishna Rao
11:20-11:40	A014-Denitrifying dephosphatation performance link to microbial community structure Wen-De Tien	C054-A novel tar reduction technology on enhancement of efficiency of energy yield and tar transformation in a catalytic gasification of paper-rejected sludge Cheng-Han Lu	D091-Ionic liquid-based ultrasound-assisted dispersive liquid-liquid microextraction followed high-performance liquid chromatography for the determination of UV filters in environmental water samples Feng Yu Zhang
11:40-12:00	A087-Phylogenetic Analysis and Functional Verification of Anaerobic Strain with Simultaneous Functions of Denitrifying and Sulfate Reducing Zhe Wang	D003-Comparison of catalytic ozonation IPMP in drinking water by γ -AlOOH and γ -Al ₂ O ₃ : Removal efficiency and mechanism wastewater Fei Qi	D067-Removal of trace water from water/chloromethane mixture using NaA Zeolite membrane by vapor permeation Hang-Sik Shin
12:00-12:20	A092-Quantitative Detection of Anaerobic Denitrifying Bacteria with Real Time PCR Based on TaqMan-MGB Probe Ting Zhou	D085-Design and synthesis of magnetic nanoparticles augmented microcapsule with catalytic and magnetic bifunctionalities Jit Kang Lim	D075-Feasibility of forward osmosis process for the dewatering of waste activated sludge: Optimization of the process parameters Hongtao Zhu
12:20-12:40	Keynote Speech by Assoc. Professor Piet Lens, UNESCO-IHE, The Netherlands		
12:40-14:00	LUNCH		

afternoon

Day 5

Thursday, September 29, 2011

14:00-14:20	A003-Environmental and economic assessment of wastewater disinfection- A case study in China Jinglan Hong	D025-Hydroxyl radical reactions with 2-chlorophenol as a model for oxidation in supercritical water Jin Ming Zhang	D022-Separation of CO ₂ from CO ₂ /CH ₄ binary gas mixture using Ba-SAPO-34 membrane synthesized from microwave heating: Process optimization studies Thiam Leng Chew
14:20-14:40	A057-High phosphorus shock loading induced glycogen accumulating organisms in anaerobic/oxic sequencing batch reactor Chih-Hsun Hsu	D096-Purification of effluent from primary treatment for solar-cell wire-saw and chemical mechanical polishing processes with membrane bioreactor Yi-Chu Huang	D063-Study on the characteristics of ozone catalytic oxidation of oil fracturing wastewater Pengkang Jin
14:40-15:00		C003-Uncertainty propagation in life cycle assessment of biodiesel versus diesel - Global warming and non-renewable energy Jinglan Hong	D093-Microbial Thin dense palladium composite membranes for hydrogen separation fabricated by ultrasound-assisted electroless plating technique Ming-Chi Wei
15:00-15:20			
15:20-15:40			

AFTERNOON TEA

Day 6

field trip

Friday, September 28, 2011