

Conference Program

Sunday, 25th September 2011

14:00-18:00 Registration and poster preparation

18:00 - 20:00 Welcome drinks

Monday, 26th September 2011

8:30-8:35 Welcome Speech by the Chairman of CESE-2011, Assoc. Professor Jega V. Jegatheesan, Deakin University, Australia

8:35-8:45 Welcome Speech by Mayor ChingTe Lai, Tainan City, Taiwan

8:45-8:55 Welcome Speech by Minister Stephen Shu-hung Shen, Environmental Protection Administration, Taiwan

8:55-9:05 Welcome Speech by Professor Li-Jen Hsu, President of Chia Nan University of Pharmacy and Science

9:05-9:35 Keynote Speech by Professor Chin-Pao Huang, University of Delaware, USA

9:35-10:05 Keynote Speech by Dr. Souhail R. Al-Abed, USEPA Office of Research and Development, Cincinnati, USA

10:05-10:35 Keynote Speech by Professor Yoshimasa Watanabe, Hokkaido University, Japan

10:35-11:05 Morning Tea

11:05-11:35 Keynote Speech by Professor Guanghao Chen, Hong Kong University of Science and Technology, Hong Kong

11:35-12:05 Keynote Speech by Professor Jo-Shu Chang, National Cheng Kung University, Taiwan

12:05-12:35 Keynote Speech by Assoc. Professor Jega V Jegatheesan, Deakin University, Australia

12:35-14:00 Lunch

Oral Presentations

	Stream 1 (Theme 1) Room: Peacock (3F) Water Treatment and Reuse <i>Jo-Shu Chang & Chettiyappan Visvanathan</i>	Stream 2 (Theme 2) Room: Phoenix (3F) Wetland Systems: Carbon and Nitrogen Balance <i>Ashok Pandey & Yoshimasa Watanabe</i>	Stream 3 (Theme 3) Room: Swan (3F) Water & Energy <i>Guanghao Chen & Huu Hao Ngo</i>
14:00-14:20	C045-Environmental benefits analysis of tertiary wastewater treatment for reuse: A case study in Xi'an, China Xiaochang 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 Rhodopseudomonas 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 <i>Phragmites australis</i> Jingtao Xu	C044-Integrated energy-water systems: The role of membrane technology Long D Nghiem
15:20-15:40	Afternoon tea		
	Molecular Biology <i>Souhail R Al-Abed & Xiaochang Wang</i>	Constructed Wetlands & Waste Treatment <i>Taku Fujiwara & Jian Zhang</i>	Energy <i>Saravanamuthu Vigneswaran & Chi-Mei Lee</i>
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 <i>Bacillus subtilis</i> NA1 in the batch reactor Chun-Chin Wang	C074-Using Rice Straw Fermenting Liquor to Produce Biofloculants during Anaerobic Dry Fermentation Process Zhao Guang	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

Tuesday, 27th September 2011

	Stream 1 (Theme 1) Room: Peacock (3F) Nutrient Removal <i>Chart Chiemchaisri & Hong-Thih Lai</i>	Stream 2 (Theme 4) Room: Phoenix (3F) Pre-Treatment and Membrane Fouling <i>Ho Kyong Shon & Chavalit Ratanatamskul</i>	Stream 3 (Theme 3) Room: Swan (3F) Biofuels <i>Ashok Pandey & Munish Puri</i>
9:00-9:20	A024-Optoelectronic industrial wastewater treatment by completely autotrophic nitrogen removal over nitrite (CANON) process in a sequential batch reactor Jih-Gaw Lin	D082-Reclamation of TCE-contained groundwater using a hybrid pre-treatment system Chih-Ming Kao	C012-Fermentative biohydrogen production from lactate and acetate Liang-Ming Whang
9:20-9:40	A007-Impact assessment of extra discharges of organics and nutrients into aquatic systems by entropy calculation Xiaochang Wang	D007-Critical flux and dynamic monitoring of fouling distribution in submerged hollow fiber membrane via UTDR Jianxin Li	C049-Effect of different pre-treatments on hemp (<i>Cannabis sativa</i>) and its enzymatic saccharification for biofuel production Reinu Abraham
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	C014-Production of xylooligosaccharides from forest waste by membrane separation and <i>Paenibacillus campinensis</i> BL 11 xylanase hydrolysis Fang-Chih Chang
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	C003-Uncertainty propagation in life cycle assessment of biodiesel versus diesel - Global warming and non-renewable energy Jinglan Hong
10:20-10:40	Morning Tea		
	Heavy Metals and Organic Pollutants <i>Baoyu Gao & Xiaochang Wang</i>	MBR & Fouling Models <i>Jianxin Li & Long D Nghiem</i>	Treatment of Pollutants in Different Environments <i>Jih-Gaw Lin & Taku Fujiwara</i>
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 Chettiyappan 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

Adsorption

Wenshan Guo & Jamal Khan

Oxidation Processes

Chavalit Ratanatamskul & Li Shu

Biodiesel

Li-Jian Xin & Liang-Ming Whang

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	C069-Green, clean and sustainable biodiesel as a bio-energy vector Paul A.Sermon
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	C007-Continuous biodiesel production using an anion-exchange resin as heterogeneous catalyst in a fixed bed reactor Benqiao He
15:00-15:20	A012-Removal of methylene blue onto biochar of wood waste Ong Zhi Siongn Handojo Djati Utomo, Li Ping, Tan Wei Ting Ericsson, Darren Lee Yong Shern	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

Ponds & Sediments

Ahmad Jusoh & Shui Ping Chang

High Pressure Membranes / Supercritical oxidation

Chettiyappan Visvanathan & Ben Qiao He

Waste Treatment / Ecodesign

Suwasa Kantawanichkul & Seunghwan Lee

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 Xiao-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 Rukapan	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 Bin Qiu

Wednesday, 28th September 2011

<p>Stream 1 (Theme 1) Room: Peacock (3F) Water: Catchment, Treatment, Distribution <i>Seunghwan Lee & Siew Chun Low</i></p>	<p>Stream 2 (Theme 4) Room: Phoenix (3F) Applications of MBR <i>Jian Zhang & Long D Nghiem</i></p>	<p>Stream 3 (Theme 3) Room: Swan (3F) Resource Recovery <i>Handojo Djati Utomo & Chihhao Fan</i></p>
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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 Xiaochang 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 Chavalit 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 Hung-Sheng Tsai

10:20-10:40 Morning Tea

<p>Microbiology in Wastewater Treatment <i>Nguyen Phuoc Dan & Qiang Liu</i></p>	<p>Advanced Membrane Materials & Processes <i>Chart Chiemchaisri & Yi-Chu Huang</i></p>	<p>Adsorption / Absorption / Photobioreactor <i>Wei-Guang Li & Srinivasa Rao Popuri</i></p>
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10:40-11:00	A082-Antibiotic resistance of Escherichia coli in leachates from municipal solid waste landfills comparison between semi-aerobic and anaerobic operations Simanata Threedeach	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	A023-Genotoxic evaluation of urban waters using Vicia faba bioassays in comparison with typical inorganic and organic toxicants Yongjun Liu	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	D024-Preparation and characterization of matrix material of highly specific affinity membranes for trypsin separation from fish viscera Nora'aini Ali	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 Sukhuma Chitapornpan	C039-Effect of light intensity and nitrogen starvation on CO ₂ fixation and carbohydrate production by an indigenous microalga <i>Scenedesmus obliquus</i> CNW-N Ching-Lung Chen
12:40-14:00	Lunch		
	Waste Treatment <i>Huu Hao Ngo & Wei-Chin Chang</i>	Soil / Compost / Microbial Population <i>Bui Xuan Thanh & Shun-Hsing Chuang</i>	Algae / Bacteria / Biomass Production <i>Saravanamuthu Vigneswaran & Weizhi Zhou</i>
14:00-14:20	A040-Application of upflow multi-layer bioreactor (UMBR) for domestic wastewater treatment in HCMC H.S. Shin	B023-Interactions between PAH biodegradation with nonionic surfactant in soil/water systems Yi-Tang Chang	C004-Screening, isolation and characterization of cellulose degrading bacteria Chihhao Fan
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	A088-Population Composition and Component Analysis of Microorganism in Attachment of Electric Dehydrator Zhe Wang	C038-Morphology responses and biomass production of maize (<i>Zea mays</i>) exposed to cadmium stress Huayong Zhang
14:40-15:00	D095-Myoglobin as surface-modifying agent in Polyethersulfone Ultrafiltration Membrane for Lysozyme Application Nora'aini Ali	A078-Applying commercial composts for decabromodiphenyl ether biodegradation Yi-Tang Chang	C033-Effects of light sources on growth and carotenoids content of photosynthetic bacteria <i>Rhodospseudomonas palustris</i> Yew-Hu Chien
15:00-15:20	A025-The fractal-like characteristics and mechanisms of the cationic red X-GRL biosorption by anaerobic sludge Bin Qiu	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	C026-Phytoremediation of aquaculture wastewater of Silver Barramundi, <i>Lates calcarifer</i> , utilizing green microalgae, <i>Chlorella</i> sp. Ahmad Jusoh
15:20-15:40	Afternoon Tea		
	Soil Remediation/ River & Environmental Water / Adsorption <i>Chih-Ming Kao & Pao-Wen Liu</i>	Oxidation/ Pathogen Detection <i>Ming-Chun Lu & Srinivasa Rao Popuri</i>	Novel Applications of Materials for Treatment <i>Wilai Chiemchaisri & Meng-Wei Wan</i>
15:40-16:00	A039-Assessment on the THMs formation potential of Sai Gon River water Nguyen Phuoc Dan	D073-Treatment of landfill leachate by Fenton-like process and post-treatment evaluation through GAC-biofiltration Ronnakorn Wongsansuk	C034-Biodegradation enhancement of used automobile lubricant in contaminated soil using purple guinea grass (<i>Panicum maximum</i> .TD58) Wilai Chiemchaisri
16:00-16:20	A085-Ionic liquid based hollow fiber supported Liquid phase microextraction of UV filters from environmental water samples Dan Dan Ge	D056-Preparation of cuprous oxide to degrade 4,4-isopropylidenediphenol by photofenton-like process Cheng Chun He	C060-Properties of fly ash from circulating fluidized bed incinerators of municipal solid waste and coal Jixin Su
16:20-16:40	A070-Effects of soil organic matter and ageing on diesel-contaminated soil remediation Pao-Wen Grace Liu	D040-Removal of non-biodegradable organic matters from membrane bioreactor permeate by oxidation processes Bui Xuan Thanh	C076-Study on Corrosion Inhibition and Adsorption Thermodynamic of Sodium Tripolyphosphate on Pure Aluminum in Sodium Hydroxide Chun-Ying Li
16:40-17:00	D063-Study on the characteristics of ozone catalytic oxidation of oil fracturing wastewater Pengkang Jin	D080-Interaction of Isothermal Phase Inversion and Membrane Formulation for Pathogens Detection in Drinking Water S.C. Low	C053-Comparison of various mineral catalysts on enhancement of energy yield efficiency in a low-temperature catalytic gasification of sawdust biomass Cheng-Han Lu
18:30	Gala Dinner (Room:Cheers)		

Thursday, 29th September 2011

	Stream 1 Room: Peacock (3F) Exposure to Chemicals / Generating Energy <i>Huayong Zhang & Li-Chu Tsai</i>	Stream 2 Room: Phoenix (3F) Technological Applications on Waste Treatment <i>Ji Zhi Zhou & Hang-Sik Shin</i>	Stream 3 Room: Swan (3F) Nano Particles <i>Zhiping Xu & Meng-Wei Wan</i>
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 Chavalit 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	C064-Biological treatment of TMAH in a full-scale TFT-LCD WWTP Pao-Wen Grace Liu	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	A037-Bioaugmentation of marine halophilic bacteria in intermittently aerated biological filter for hypersaline wastewater treatment 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		
	NH₃ removal / Denitrification <i>Chia-Yuan Chang & Weizhi Zhou</i>	Nano Particles / Bioleaching <i>Ho Kyong Shon & Wei-Chin Chang</i>	Applications of Novel Membranes in Purification <i>Wenshan Guo & Chi-Chuan Kan</i>
10:40-11:00	A051-Removal of ammonium from aqueous solution by slag, honeycomb-cinder and coal gangue Huayong Zhang	A001-Solubilization and transformation of heavy metals in binding fractions of contaminated river sediment via bioleaching: effect of soluble thiosulfate ions Li-Chu Tsai	D097-Application of In-line Micellar Enhanced Ultrafiltration (MEUF) and Activated Carbon Fibre (ACF) Process for Nickel Removal Seunghwan Lee
11:00-11:20	A077-Denitrification of glycogen accumulating organisms from an anaerobic-oxic activated sludge system fed with phosphorus-limiting substrate Wei-Chin Chang	C079-Effective removal of anionic dye by Ni-Zn-Cr-LDHs prepared from electroplating wastewater via accelerated carbonation Ji Zhi Zhou	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	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	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	A002-Variation of physiochemical parameters at contaminated river sediment via bioleaching Li-Chu Tsai	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		

Microbial Community / Water & Wastewater Treatment		Wetland / MBR / Global Warming
<i>Jamal Khan & Chun-Chin Wang</i>		<i>Ying-Feng Lin & Suwasa Kantawanichkul</i>
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
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
14:40-15:00	C077 - Microbial community analyzed of using cattle dung to generate electricity during acidogenesis by the 454-pyrosequencing technology Guang Zhao	D050-High concentration PAC-MF system for drinking water treatment at low temperature Cong Ma
15:00-15:20	A038-Quantitative detection of Salmonella spp. and Salmonella typhi in domestic wastewater by real-time PCR Chongmiao Zhang	
15:20-15:40	Afternoon Tea	

Friday, 30th September 2011

Field trip - Kaotan Water Treatment Plant (KTWTP)

This facility is the largest ultrafiltration (UF) – nanofiltration (NF) – reverse osmosis (RO) integrated membrane system for tap water supply in the world.

09:30 Field trip commences

14:00 Return from field trip

Poster Presentations

- 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 **Lim Zhi Hao Kenneth, Handojo Djati Utomo, Low Hui Xiang Daphne**
- A015-Towards standardised assessment of water reclamation scheme and technology **Huu Hao Ngo**
- 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**
- A067-Removal of stormwater pollutants using sand GAC and Purolite filter media **Saravanamuth Vigneswaran**
- A069-Landfill leachate treatment by an anoxic-oxic MBR with polyethylene sponge as a bio-carrier in anoxic unit **Kulchaya Tanong**
- A072-Toxic effects of wastewater pollutants on embryo development of crucian carp (*Carassius auratus* L.) exposed to wastewater treatment plant effluents **Jian Zhang**
- A074-The studies on biodegradation and adsorption of dissolved organic carbon (molasses) in sand medium through batch experimental design **Azizah Endut**
- 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**
- A099-The effect of EDTA and plant growth regulators (GA3 and IAA) by vetiver and sunflower to evaluate the effectiveness of phytoattenuation **T. Y. Yeh**
- B001-Algal growth control in wetland systems **T. Y. Yeh**
- C008-Facile synthesis of TiO₂/microcrystalline cellulose nanocomposites: photocatalytically active material under visible light irradiation **Jurate Virkutyte**

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- C009-Transport in electro-treated anaerobic granular sludge: effect of drying, temperature and glutaraldehyde addition **Jurate Virkutyte**
- C018-Bio-hydrogen production enhancement by co-cultivation of Rhodospseudomonas palustris WP3-5 and Anabaena sp. CH3 with light utilization of complementary wavelengths **Chi-Mei Lee**
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