

5th International Conference on Environmental Science and Technology 2010
July 12-16, 2010 • Hilton Houston North Hotel • Houston, USA

(It should be noted that it is not the final version. The schedule is subject to change without notification)

Conference Schedule

	12-July	13-July	14-July	15-July	16-July
Morning 8:00a.m. - 11:55a.m.	Registration	Plenary Meeting	Platform Sessions	Platform Sessions	Platform Sessions
Afternoon 1:30pm. - 6:05p.m.	Exhibition Noon- 8:00p.m.	Platform Sessions	Platform Sessions	Platform Sessions	Free
Evening 7:00p.m. - 9:00p.m.		Poster Session I	Poster Session II	Award Announcement	
7:30a.m. - 8:00p.m.	Registration Exhibition	Registration Exhibition	Registration Exhibition	Registration Exhibition	Registration

Presentation at a Glance

Tuesday, July 13		Session Number	Session Title
Grand Meeting Room	8:00am-11:50am	Session00-01	Plenary Meeting
Meeting Rooms	1:30pm-6:05pm	Session 01-09	Water Quality Assessment/Management
	1:30pm-6:05pm	Session 02-01	Aerosol
	1:30pm-6:05pm	Session 02-02	Air Quality Assessment
	1:30pm-6:05pm	Session 02-04	Waste Gas Control Techniques
	1:30pm-6:05pm	Session 03-03	In-situ Remediation
	1:30pm-6:05pm	Session 03-04	Solid Waste Management / Polymer Waste Recycling and Management
Poster Room	7:00pm-9:00pm	Poster Session I	Sessions 01-01~01-09, 02-1~02-3, 03-1~03-3, 11, 12, 13, 14, 15, 16
Wednesday, July 14			
Meeting Rooms	8:00am-6:05pm	Session 01-08	Drinking Water Management
	8:00am-6:05pm	Session 01-06	Wastewater Discharge Management
	8:00am-6:05pm	Session 01-10	Nitrogen-Phosphorus Wastewater Treatment
	8:00am-6:05pm	Session 01-11	Sludge Treatment
	8:00am-6:05pm	Session 01-12	Municipal Wastewater Treatment
	8:00am-6:05pm	Session 01-13	Industrial Wastewater Biotreatment
	8:00am-6:05pm	Session 02-03	Transport of Pollutants
	8:00am-6:05pm	Session 02-05	Air Pollutant Monitoring
	8:00am-6:05pm	Session 02-06	Hazardous Gas Biofiltration
	8:00am-6:05pm	Session 02-07	Air Pollution Prevention and Management (Catalysts for Reducing Emission, Fuel Gas DeSOx, DeNOx, and Metal Removal, Air Pollution Prevention and Management)
	8:00am-6:05pm	Session 03-01	Contaminants in the Subsurface
	8:00am-6:05pm	Session 03-02	Natural Attenuation of Contaminants
	8:00am-6:05pm	Session 03-05	On-site and Off-site Remediation
	8:00am-10:05am	Session 03-06	Landfill
8:00am-6:05pm	Session 03-07	Permeable Reactive Barriers	
8:00am-6:05pm	Session 03-08	Waste Recycling	
8:00am-6:05pm	Session 03-10	Radioactive Waste and Land Pollution	

	8:00am-6:05pm	Session 04-01	Ecosystem Assessment
	8:00am-6:05pm	Session 04-02	Restoration of Ecosystems
	8:00am-6:05pm	Session 06-1	Wetland Conservation
	8:00am-6:05pm	Session 06-2	Wetlands for Wastewater Treatment
	8:00am-6:05pm	Session 07-1	Remediation of Contaminated Sediments
	8:00am-6:05pm	Session 08-01	Global Warming and its Impacts
	8:00am-6:05pm	Session 08-02	Carbon Discharge Reduction
Poster Room	7:00pm-9:00pm	Poster Session II	Sessions 01-10 ~ 01-17, 02-4~02-10, 03-4~03-12, 04, 05, 06, 07, 08, 09, 10
Thursday, July 15			
Meeting Rooms	8:00am-6:05pm	Session 01-01	Rivers, Lakes and Estuary Systems
	8:00am-6:05pm	Session 01-02	Watershed Management
	8:00am-6:05pm	Session 01-03	Water Resources and Assessment
	8:00am-6:05pm	Session 01-04	Groundwater
	8:00am-6:05pm	Session 01-05	Non-point Sources
	8:00am-6:05pm	Session 01-14	Adsorption/Desorption for Wastewater Treatment
	8:00am-6:05pm	Session 01-16	Reactions and degradation of Wastewater Contaminants
	8:00am-6:05pm	Session 01-17	Nanotechnology Applications
	8:00am-6:05pm	Session 05-1	Human Exposure
	8:00am-6:05pm	Session 05-2	Bio-response and bioavailability
	8:00am-6:05pm	Session 05-3	Microbiology and Microbial Degradation
	8:00am-6:05pm	Session 09-1	Metal Distribution
	8:00am-6:05pm	Session 09-2	Metal Removal and Remediation
	8:00am-6:05pm	Session 09-3	Speciation, Bioavailability and Accumulation
	8:00am-6:05pm	Session 09-4	Phytoremediation
	8:00am-6:05pm	Session 11-1	Environmental Simulation
	8:00am-6:05pm	Session 11-2	Water Quality Modeling
	8:00am-6:05pm	Session 12-1	GIS for Environmental Assessment
	8:00am-6:05pm	Session 12-2	Data Management and Statistics
	8:00am-6:05pm	Session 12-3	Environmental Remote Sensing Applications
	8:00am-6:05pm	Session 14- 1	Society and the Environment
	8:00am-6:05pm	Session 14-2	Environmental Ethics, Laws and Education
	8:00am-6:05pm	Session 16-1	Wind Energy
	8:00am-6:05pm	Session 16-2	Solar Energy
	8:00am-6:05pm	Session 16-3	Bio Fuels and other Technologies
Conference Center	7:30pm-8:30pm	Award Announcement	Including <i>Student Paper Award, Young Scientist Paper Award, Conference Paper Award, and Poster Award</i>
Friday, July 16			
Meeting Rooms	8:00am-11:50am	Session 01-15	Reactions and Degradation of Wastewater Contaminants
	8:00am-11:50am	Session 10-1	Degradation of Persistent Organic Pollutants
	8:00am-11:50am	Session 13-1	Environmental Analytical Technologies
	8:00am-11:50am	Session 13-2	New Method Applications
	8:00am-11:50am	Session 13-3	Environmental Monitoring
	8:00am-11:50am	Session 15-1	Environmental Quality and Planning
	8:00am-11:50am	Session 15-2	Energy-Related Environmental Problems
	8:00am-11:50am	Session 15-3	Environmental Policy and Management
	8:00am-11:50am	Film Session	<i>Blind Spot: Peak Oil & the Coming Global Crisis</i>

Sessions, Reference Numbers, and Presenters
(Including platform and poster presentations, not the final version)
 (Only presenters are listed, while co-authors are not included)

Plenary Meeting

1111. *Characterization of Atmospheric Particles from South America to Antarctic.* **Prof. Ricardo Henrique Moreton Godoi**
1112. *Groundwater-Surface Water Flux Measurements.* **Dr. Carl G. Enfield**
1113. *Continuous Treatments of Endocrine Disrupting Chemicals (EDCs) by Artificial and Natural Oxidation Processes.* **Prof. Yutaka Sakakibara**
1114. *Membrane Optodes for Heavy Metal Ions: Preconcentration and Quantification in Natural Waters.* **Prof. Gurijala Ramakrishna Naidu**

01. Water Pollution and Water Quality Control

01-01 Rivers, Lakes and Estuary Systems

- x619. Freshwater Harmful Algal Bloom Suppression: Solar-Powered Circulation and Current U.S. Policy. **Kenneth Hudnell**, Joseph Eilers, Vic Lucero, Christopher Jones, Dennis R Hill, Amanda Williams
715. Microbiological and Physicochemical Studies on Ero Dam, South-Western Nigeria. **Oluyeye J.O**, Oluyeye A.O, Ilesanmi O, Aregbesola O, Dada A.C, Ogunbanjo O.R.
- x759. Surveying the Problems in Developing Water Quality index in Iran. **Farzam Babaie Semiromi**, A.H Hassani, A. Torabiyani and A.R. Karbasi
- x987. Bacterioplankton Community in Highly Eutrophic Plateau Shallow Lake. **Mingji Lv**, Yi Huang
- x1154. Pilot Studies on Atmospheric Deposition in Mine Lakes Region Part I: Heavy Metals. **Jatau-Emeagha Glory Ladidi**, Ufodike E.B.C.
1163. Oceanic Contamination by Chemical Materials Derived From Discomposed Marine Debris Plastics. Song In Park, Jeong Hun Park, Suk Hyun Na, Guang Chun Lee and **Seon Yong Chung**

01-02 Watershed Management

- x710. Water Management by YAN Technology, YAN Microorganisms (YANM) and Titanium Bio-Ball. **Ki Hae Yang**, MI-SUG KIM, AND JEE-JUNE SONG
785. A Study of Effects of River Channel Network to Runoff by a Newly-Derived Physical Model. **Kenji Tanabe**, Kenta ODA, Masato OKABE, Tadashi YAMADA

01-03 Water Resources and Assessment

- x571. Environmental Impact of Return Flow on Groundwater Quality at Azraq Basin, **Jordan. Yasin Al-Zu'bi** , and Jarrah Al- Zu'bi
613. Biomonitoring and Water Quality Assessment of Perennial River Tamirabarani, South India. **A.G. Murugesan**
- xx615. Optimal Spatial Allocation of the Economical Crops in Saudi Arabia, According to the Comparative Advantage. **Ahmed M. Alabdulkader**, Ahmed I. Al-Amoud, Fawzi S. Awad, Abdulrahman A. Alazba, Saad A Al-hamed, Ali S. Al-Tokhais, Jalal M. Basahi, Abdulrahman M. Al-Moshailih, Yousef Y. Al-Dakheel
674. Sustainable Uses of Compost and Water on Soil and Yield of Beans. **Samih Abubaker**, Yasin Alzu`bi and Jarrah Al-Zu`bi
871. Landscape River Water Quality Assessment of a Metropolis in China. **Qing Wu**, Jian Xie, Yue Zhang, Caiyun Zhao
- xx875. New Field Incubation Technique Using Phase Change Materials for Microbiological Water Testing. **R. L. Matthews**, R.E.S. Bain, T. Ajmal and S.W. Gundry
932. Assessment of Nutrient Budget, Water Quality and Sediment Environment of Lake Tega, Chiba, Japan. **Deepak K. C.**, Yukio KOIBUCHI, G W HUANG, Masahiko ISOBE
- x961. Performance Assessment of Water Management in the Old Land of Egyptian Delta. **Ahmed Mohsen Aly Mohamed**, Ahmed M. ALY, Yoshinobu KITAMURA, Katsuyuki SHIMIZU
600. A New Technique of Discharge Release from Dam Reservoir for Flood Control. **Yusei Kitada**, and Tadashi Yamada

01-04 Groundwater

520. Groundwater Management – A Social Contract. **Ernst Bertram**
521. Hydrogeology of the Shallow Aquifers at Wadi el-Ghussein, NE Jordan. **Wael Al-Azaizeh**
530. Preparation of Lipophilic Encapsulated KMnO₄ for Remediation of TCE in Ground Water. **Baoling Yuan**, Sifa Lin and Hairui Zhou
598. Impacts of Anthropogenic Factors on Groundwater Resource in the Urban Environment of Developing Countries, Ethiopia. **Eyilachew Abate**

- x607. A Sustainable Solution for Arsenic Poisoning of Ground Water. **Kshipra Misra**, and Pralay O. Basu
- x669. Status of Arsenic Contamination in Groundwater of Southern Bangladesh: A Population-Based Survey. **Nepal C Dey**
- x687. Arsenate Removal from Simulated Groundwater by Donnan Dialysis. Bin Zhao and **Huazhang Zhao**
- x700. Residential Development Overlying a Complex Aquifer in Ontario, Canada - Science and Practice. **Prem Manicks**
- xx718. Arsenic in Groundwater in South Asia: Extent of Toxicity and Remedies. **Mukand S. Brar**, Vicky Singh and Preeti Sharma
883. Characteristics of Groundwater in the Plain of Yazd-Ardakan. **Majid Roozbeh**
885. Ground Water Analysis for Organochlorine Insecticides in Jaipur. **T. I. Khan**
891. Determination of Processes Affecting Groundwater Quality in a Coastal Aquifer. **Prasanta Kumar Mohapatra**, Paras Ranjan Pujari
917. Effects of Water Chemistry on Transport of Fullerene (C60) In Porous Media. **Yoong Kyung Jung**, Min Jung Kim, Young-Jin Kim, and Jae Young Kim
934. Remediation of Barium, Bicarbonate and Alkalinity in Groundwater for CBM Production Compliance. **Bruce W. Bandorick**
- xx950. Qualitative and Quantitative Assessment of Groundwater of Coalmining areas, India. **Prasoon Kumar Singh**, Dipanwita Bhakat, Gurdeep Singh
990. Comprehensive Evaluation of Groundwater Arsenic Contamination in Some Areas of India. **Chandan Mahanta**, Runti Choudhury, Pronobjyoti Borah, Lalseng Zela Sailo, Sandip Mondal, Lalit Saikia, Wazir Alam
991. Release Mechanism and Mobilization Process of Arsenic Contamination in Unexplored Parts of Brahmaputra Floodplains. **Chandan Mahanta**, Runti Choudhury, Pronobjyoti Borah, Lalseng Zela Sailo, Sandip Mondal, Lalit Saikia, Wazir Alam
1115. Assessment of Source Flows at a Mojave Desert Spring: Habitat to Endangered Species. **Luz Vargas**, Barry Hibbs, and Mercedes Merino
- x1116. Groundwater Baseflows Contaminate Streams in Southern California Coastal Watersheds. **Barry Hibbs**, Wynee Hu, and Rachel Andrus

01-05 Non-point Sources

609. Study on Influence of Non-point Source Pollution to Water Quality of the Weihe River Based on Storm Runoff Monitoring. **Jia-ke LI**, Huai-en LI, Yajiao LI
648. Impact of Non-point Source Pollution on Bacterial Community Structure in River Water from a Densely Populated Watershed. **Mark Ibekwe**, Richard M. Bold, Stephen. R. Lyon, and Menu B. Leddy
1110. Prediction of N and P Loads to Receiving Water Coming From Non-Point Sources without Using GIS and Remote Sensing Methods. **Mustafa Sait Yazgan**, Aysegül Ugurluoglu and Mustafa Sait Yazgan

01-06 Wastewater Discharge Management

692. Biosolids as Foaming Reactive for Froth Flotation Processes. **Lorenzo Reyes-Bozo**, Alex Godoy-Faúndez, Miguel Herrera and Rosanna Ginocchio
890. Performance of Natural and Synthetic Media in the Denitrification of Aquaculture Wastewater. Namasivayam Vasudevan and **Valsa Remony Manoj**
910. Indian Distillery Industry: Problems and Prospects of Decolourisation of Spentwash. **M. S. Chauhan**, A. K. Dikshit

01-07 Drinking Water Protection

01-08 Drinking Water

- x518. Optimization Models for Monitoring Station Sitting in a Water Distribution Network. Pei-Hao Li and **Jehng-Jung Kao**
- x519. Monitoring of Source Water Supplied to a Treatment Plant to Evaluate Its Effect on Influent Water Quality. **April Nabors**
- x594. Spatial Variation of Haloacetic Acids in the Indoor and Outdoor Household Drinking Water in Kuwait. Humood F. Al-Mudhaf, Mustafa I. Selim, **Aleksander Astel**, Abdel-Sattar I. Abu-Shady
- x596. Identifying Carcinogenic Potentials of Drinking Water Disinfection Byproducts using Normal Human Colonocyte Cultures. **Anthony DeAngelo**, Yue Ge, Michael George, Carlton Jones, Steve Kilburn, Sheau-Fung Thai, William Ward, and Ernest Winkfield
632. Hydrogeophysical Study of Well Fields for Drinking Water Supply of Damascus City. **Ammar Alammareen**
- xx670. Women's Role in Managing Household Water in Rural Bangladesh. **Nepal C Dey** and AKM Masud Rana
- x678. Pre-treating Microcystis-laden Raw Water by Silver Carp in Water Works. **Hua Ma**, Fuyi Cui
- xx701. Lead in Drinking Water – Case Study in Mangalore, India. Sandeep Rao, **Shrihari S.**
702. Determination of Typical UV filters Removal in Urban Waterworks. **Chen Xin**, Deng Huiping, He Yinnan, Chu Wenhai, Yao Juanjuan, Shi Jun
- x789. Hydrogen Peroxide with Potassium Permanganate to Replace Pre-Oxidant Chlorine in Drinking Water. **J. Cochran**

814. Reduction of Perchlorate from Contaminated Waters Using Zero Valent Iron, Palladium as a Catalyst, and UV Light. **Q. Amy Zhao**, E. Sahle Demessie, and George Sorial
860. Physico-Chemical and Microbiological Analysis of Some Drinking Water Sources In Buea, Cameroon. **George Elambo NKENG**, Loveline A. Azah, Samuel N. Ayonghe, Fidelis A. Folifac, Susan Gaskin, L. L. Lifongo
865. Drinking Water for All. **Anumakonda Jagadeesh**
- x968. Pipe Service Age Effect on Chlorine Decay in Drinking-Water Transmission and Distribution Systems. **A. O. Al-Jasser**

01-09 Water Quality Assessment/Management

512. Biomonitoring and Water Quality Assessment of Perennial River, Tamirabarani South India. **A.G. Murugesan**
- x517. MRBC Dispersion Parameters Assessment by SA, GA and GNM Inverse Modeling. V. P. Huggi, **A. K. Rastogi**
- xx560. Assessment of Particles and Trace Elements in Selected Reservoir of Curitiba – Brazil. **Ricardo Henrique Moreton Godoi**, André Virmond Lima Bittencourt, Patricia Yassumoto Hirata, Ana Flavia Locateli Godoi, Eduardo Felga Gobbi, Luiz Fabricio Zara, Miguel Jafelicci Jr, Rafael Bini, Jorge Eduardo de Souza Sarkis, José Manoel dos Reis Neto, José Eduardo F. C. Gardolinski, René Van Grieken
588. Impact of Dumpsites on Quality of Groundwater Sources in Kano-Nigeria: Case Study. **Ahmed Fate Ali** and Robert J. Young
627. Water Quality and Analysis in Muea, Fako Division, Cameroon. **Ntiokam Divine**, lifongo L, Tening A.
- x628. Innovative Non-Chemical, Electronic De-Scaling and Scale Prevention Technology for Heat Transfer Optimisation. **Philip Acquah**
638. 2D Transient Water Quality Analysis in Pipe Network. **Huan-Feng Duan**
- x684. Monitoring of Drinking Water Quality in Regional Laboratory Gombe Nigeria. **Bertha Abdu Danja**, Jürgen Ertel and Otmar Deubzer
708. The Fecal Coliform Pollution in the Lanzhou Section of the Yellow River, China. **Famin Liu** and Lirong Wang, Weishou Shen
- x728. Management of Organic Waste from an Agricultural Enterprise (Dairy Farm) In Botswana. **Gilbert Kabelo Mmolawa**, G.K. Gaboutloeloe and K. Ramolekwa
- xx729. Dairy Enterprises Environmental Pollution Risk Assessment in Gaborone Agricultural Region, Botswana. **Gilbert Kabelo Gaboutloeloe**, and C.M. Tsopito
748. Deterioration of Water Quality Threatens the Ecosystem of the St. Martin's Coral Island, Bangladesh. **Md. M. Maruf Hossain & D.SULTANA**
770. Influence of the Bathing Water Directive 2006/7/EC in the Bathing Water Classification. **Lago López Martínez**, César Álvarez Díaz, José Luis Gil Díaz, José A. Revilla Cortezón, José A. Juanes de la Peña
784. A Study of Water Quality in Tidal Area of Urban Rivers -Behavior of DO Concentration and BOD Concentration in Tokyo. **Yasuki Yamakado**, Masato OKABE, Tadashi YAMADA
- x918. E.Coli Chromogenic Reagent Selection Based on User Perception for Use in Field Based Water Quality Tests. **Tahmina Ajmal**, N.E. Scott-Samuel, Germinal Magro, R.E.S. Bain, R.L. Matthews, A.P. Davis and S.W. Gundry
953. Study on Distribution and Source of Dissolved Inorganic Nitrogen in Changjiang River. **Zhiming Yu**, Tao Jiang, Xiuxian Song, Xihua Cao and Yongquan Yuan
- x966. Contamination of Water Body Associated with Bird Nesting on Highway Bridges. **Rania Bashar**, Veysel Demir, Sazzad Bin-Shafique
983. Bacterial Indicators of Fecal Contamination in the Macagua Lake, Bolívar State, Venezuela. **Rosa Vásquez Lic**, Nailec Valdiviezo, Tibisay Gómez, Hilda Centeno and Lenny Moya
- x985. Utilizing the Water Quality Index as an Indicator of Surface Water Pollution: A Case of Damour River, Southern Lebanon. **May A. Massoud**
- xx1102. Optimizing Readability of Escherichia Coli Selective Fluorogenic Assay for Testing Water Quality. **Tahmina Ajmal**, R.E.S. Bain, R.L. Matthews and S.W. Gundry
- xx1121. Water Quality Processes at the Estuarine Interface of Upper Newport Bay, California. **Barry Hibbs**, Cherylee Sevilla, and Maryam Taiedi

01-10 Nitrogen-Phosphorus Wastewater Treatment/01-11 Sludge Treatment

- x508. Encapsulation of Electroplating Sludge - Its Mechanical Strength, Leachate Studies and Microstructural Analysis. **H. Dayananda**, Lokesh K. S.
510. Nitrification Performances of Immobilized Activated Sludge in a PEG-SA Gel by UV. **Xiangli Qiao**, Liu Zhe Liu Zhiwei Zeng Yinglin Zhang Zhenjia
- xx528. Physical Methods in Waste Water Treatment. **Kavindra Kumar Kesari**, Jitendra Behari, H.N. Verama
- xx531. Simultaneous Removal of Ammonium Nitrogen and Phosphate by Natural Zeolite and Peat—Experimental Study in the Micro-Polluted Scenic-Water. **Shan Huang**, Zhang Dao-fang, Shi Chao-bin, Xu Zhi-hua, Li Su-hui, Jin Xiao-ying
- xx569. Dewatering Waste Activated Sludge Using Dissolved Gas-Flotation Followed by Centrifugation. **Medhat El-Zahar**

- xx663. Electro-thermal Treatment of High Concentration Ammonia Nitrogen in Water by Gaseous. Oxidation in Liquid Phase (GOLP). **Ji Yang**, LIMEI CAO, JINPING JIA
694. Phosphate Precipitation Induced by Iron(III) Bioreduction in Septic Systems. **Xiang Cheng**, Dezhi Sun, and Xiaoqi Zhang
738. Study of a Nitrifying Sequencing Batch Reactor in Presence of m-cresol. **Alejandro Zepeda**, Susana Rincón, Chérif Ben-Youssef
- xx765. Hydrostatic Suction and Chemical Conditioning Effect in Upgrading of the Sludge Drying Beds' Performance. **Ali Torabian**, Elmira Tarverdizadeh, Shahab Farajollahi and Mehdi Janqorban
- xx790. Sludge Volume Reduction by Usage of Ultrasonic. **Samaneh Pasha Zanousi**, Bitay Ayati, Hossein Ganjidoust
- xx816. N₂O Emission during Nitrogen Removal via Nitrite in Aerobic Granular Sludge SBR. **Dawen Gao**, Jiaoling Yang, Hong Liang
- xx857. Interactions of AOA, AOB and NOB in a Nitrification Reactor. **Lin Ye**, and Tong Zhang
- x899. Investigation of Organic Loading Rates and Inhibition of Thermophilic Digestion. **Sebnem Koyunluoglu-Aynur**, and Rumana Riffat, Sudhir Murthy
912. Start-up of Anammox Process Using External Membrane Bioreactors. Da-Wen Gao and **Yu Tao**, Wei-Min Wu
979. Extraction of Nickel from Sewage Sludge Using Poly-aspartic Acid. **Hua Zhang**, Zhiliang Zhu, Huiping Deng and Jianfu Zhao, Lihua Zhang
- xx988. Recycle of Phosphorus from Sludge by Phosphate Precipitation Method. **Xuemin Xiang**, Zhiqiang Wei, Ren Wang, Jiti Zhou, Fenglin Yang
1123. Comparison of Microbial Community Shifts Between In Aerobic Reactors at Low Temperature. **Wu Cheng-qiang**

01-12 Municipal Wastewater Biotreatment

- xx727. Landfill Leachate Treatment by Partial Nitrification and Subsequent Anaerobic Ammonium Oxidation (Anammox). **Huosheng Li**, Shaoqi Zhou, Yanbo Sun
- xx750. Research on Characters of Biofilm and Microorganism Population in Magnetic Bioreactor. Bo Shi and **Yongzhang Pan**
- xx774. Innovative Energy Efficiency in Aerobic Wastewater Treatment Units. **Paul Pinamang Kyei**
- xx798. Sludge Characteristics in a Moving Bed Membrane Bioreactor and Conventional Membrane Bioreactor. Yousef Rahimi, **Ali Torabian**, Naser Mehrdadi, Hamid Pezeshk, Shahab Farajollahi, Farimah Saeedi
- xx811. Study of Surfactant Degradation by an Anoxic Biofilm Reactor. **Julianna Camacho**, Robin Autenrieth
- xx815. Domestic Wastewater Treatment Using Anoxic/Oxic Membrane Bioreactor: Effect of Hydraulic Retention Time. **Dawen Gao**, Yu Tao, Rui An, Yuan Fu, Nanqi Ren
- xx819. Effect of Aeration Intensity on Kinetic Behaviours of Steady-State Aerobic Granules SBR. **Lin Liu**, Dawen Gao
- xx833. A Innovative Combined UAFB/MBR System Treating Low-Strength Wastewater for Energy Recovery and Water Reuse. **Dawen Gao**, Rui An, Nanqi Ren
844. Biomedical Waste Prospective in India. **Kodamagudi Padmini** and Gurijala Ramakrishna Naidu
951. Oxidation & Stripping of Sulfides & POCs from UASB Effluent Treating Sewage. **Abid Ali Khan**, Rubia Zahid Gaur, Vinay Kumar Tyagi, Anwar Khursheed, , A.A.Kazmi & Indu Mehrotra, Sudhish Aggarawala

01-13 Industrial Wastewater Biotreatment

- xx505. The Surface Properties of Bacterial from Activated Sludge and Its Bioflocculation. **Bing Xie**
- x513. A ZnFe₂O₄-Loaded TiO₂ Nanotube Arrays Electrode with Enhanced Visible-Light Photoelectrocatalytic Activity. YangHou, **Xinyong Li**, Guohua Chen
- x534. Kinetic, Isotherm, Thermodynamic and Column Studies of Biosorption of Lead [II] by Modified Shells of Portunus Sanguinolentus. **TVN. Padmesh**
543. Use of Duckweed Lemna minor for Reduction of BOD in TimTek Process Water. Lauren Heard Mangum, **Hamid Borazjani**, S.V. Diehl, M. L. Prewitt, and Dan Seale
- x582. Bioaugmentation Treatment for Coking Wastewater Containing Pyridine and Quinoline. **Yaohui Bai**, Qinghua Sun, Cui Zhao, Donghui Wen & Xiaoyan Tang
- xx637. Hybrid UASFB-Aerobic Bioreactor for Biodegradation of Acid Yellow-36 in Wastewater. **Pijush Kanti Mondal**, Rais Ahmad, Shams Qamar Usmani
- x666. Design, Processing and Testing of Solid Waste Derived Microbial Support Material for a Wastewater Treatment System. **Lam Van Giang**, Franz Furby C. Ramos, Jocelyn B. Toga-on, Ma. Catriona Devanadera, Nguyen Phuoc Dan, Ohtaguchi Kazuhisa, and Wilfredo I. Jose
- xx679. Enzymatic Colour Removal of Pulp and Paper Mill Effluent by Different Fungal Strains. **Pratibha Singh**
- xx681. Removal of Color in Distillery Effluent (Spent Wash) by Microbial Treatment. **Pratibha Singh**, Ashima Srivastava, Roli Verma, N.N. Janhavi, Meera Gupta Himanshu Singh and N.Kumara Swamy
- x745. Biodegradation of Carbazole by the Pseudomonas sp. Strains. **Cui Zhao**, Man DING, Donghui WEN, and Xiaoyan TANG
757. Distribution of Metals between Organic Matter Fractions As Influenced By Organic Amendments. **Ibrahim Mohamed**, Bocar Ahamadou, Ming Li, Changxiu Gong, Qiaoyun Huang

- x779. Performance of Aerobic Granulation and Phenol Removal in a Sludgy Blanket Reaction Process. Ngoc-Thuan Le, Dul-Sun Kim, Tae-Han Kim, Young-Kyung Lee, Su-Eon Jeong, Mi-Jung Cho and **Dong-Keun Lee**
- xx854. Performance and model of an UASB to treat the pharmaceutical wastewater . **Zhaobo Chen**, Hongcheng Wang, Dongxue Hu, Jing Liu, Minhua Cui
- xx855. Modeling of MLISS and Membrane Flux at Different SRT/HRT in SMBRs. **Zhaobo Chen**, Dongxue Hu, Hongcheng Wang, Jing Liu, Minhua Cui
- xx856. A Full-Scale Experiment by Using ABR to Treat Printing and Dyeing Wastewater. **Zhaobo Chen**, Dongxue Hu, Aijuan Zhou, Hongcheng Wang
- xx869. Optimal Operational Parameters of TiO₂/Fe₃O₄-SiO₂ Photocatalyst for Treating Wastewater Containing Naphthalene. **Aijie Wang**, Aijuan Zhou, Zhaobo
- x886. Performance of Consortium of Blue-Green Algal Species in Bioremediation of Tannery Effluent. V. Shashirekha, **M. R. Sridharan**, and Mahadeswara Swamy
904. Bio-Treatability of Wastewater Generated during Machinery Washing in Wood-Floor Industries. **Fabio Kaczala**, Marcia Marques and William Hogland
936. Pretreatment Study on High Concentration Caustic Sludge Wastewater of Catalytic Gasoline. **Qiu Li-ping** and Luo De-Chun
- x957. Decolorization and Degradation of Dyes By Mixed and Methanogenic Cultures under Batch Conditions. **Kapil Kumar**, M.G. Dastidar and T.R.Sreekrishnan
974. Screening and Assessment of High Efficient Cellulytic Microflora from Straw for Saccharide-accumulation. **Chengjiao Xu**, Aijei Wang, Nanqi Ren, Bing Liu
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808. Preparation and Study of a Novel Environmentally friendly Seed Coating Agent for Wheat. **Defang Zeng**, Fang Wang, Xiang Mei, Zhen-E Wang

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597. A Study on Quantitative Evaluation of Mitigation Effects of Thermal Environment in the Vicinity of Rivers in Urban Area. **Shuhei Shuhei Ohno**, Takuma KATO, Tadashi YAMADA
699. Deposition Monitoring Technology in Estuarial Environment Using Electrical Resistivity Method. **Yong-gang Jia** and **Hong-lei Li**, Xiang-mei Meng, Xiao-lei Liu and Hong-xian Shan

776. Development of Bismuth-Based Screen-Printed Sensors for Heavy Metals Ions Detection. **Monica Florescu** and Mihaela Badea, Simone Romano and Patrizia Restani
777. Development and Evaluation of New Graphite Composite Sensors for Heavy Metals Ions Detection. **Monica Florescu**,
778. Detection of Heavy Metals Using Inhibition Biosensors and AAS Methods. **Monica Florescu**, Mihaela Badea, Claudia Stih
- xx810. A Comparative Study on the Effect of Foliar Application of Zinc, Potassium or Magnesium on Growth, Yield and Some Chemical Constituents of Mungbean Plants Grown Under Water Stress Condition. **Medhat Mekhail Tawfik**, Thalooh A.T. and Mohamed M.H

14. Society and the Environment

14-1. Society and the Environment

- xx511. The Harmonization of Macedonian's Environmental Legislation with the European Union Legislation. **Vulnet Zenki**, Murtezan Ismaili, Zoran Sapurik
542. Chaos-Based Analysis of Environmental Stakeholders Attitudes in Mount Kilimanjaro, Tanzania. **Martin Herbert Kijazi**
- x736. Political Drivers of Air Pollution in the U.S.: A Time-Series Analysis (1959-1998). **A.C. McCreery**
931. Parameter's Global Weights for Sustainable Buildings from Consultant's Perspectives in Indian Context. Rajiv Bhatt and **J E M Macwan**
999. A Transversal Approach among Human Rights, Democracy, and Sustainable Development. **Nazmul Haque**

14-2 Environmental Ethics, Laws, Education

713. Sustainability Education: A Bottom-Up Approach to Diffusion of Sustainability in Developing Countries. **Ken D. Thomas** and Helen E. Muga
870. Environmental Ethics & Values: If Not Now, When. **Bhaven N. Tandel**, and Joel Macwan
916. Environmental Legislation & Education: Two Sides of the Same Coin. **Bhaven N. Tandel**, Joel Macwan
- x949. Environmental Education for Sustainability across the New Macedonian Curriculum. **Mile Srbnovski**, Ismaili, M. & Abazi, A.

15. Environmental Planning and Management

15-1 Environmental Quality and Planning

538. Who Govern the Leadership Position and Dominate Decision-Making in Community Forestry User Groups in Nepal? **Bhagwan Dutta Yadav**, Hugh Bigsby Ian MacDonald
- x540. Grassland as a Natural Water Infrastructure Supporting Rural Economy in South Africa. **Mbofho Stanley Liphadzi**
698. Evaluating the Role of Social Networks in Facilitating Diffusion of Green Technology. Amlan Mukherjee and **Helen E. Muga**
739. The Effects of Runoff Suppressant and Heat Environment Mitigation by Rainfall Harvesting on the Top of the Building. **Jiro Isogai**, Takeharu Ishizuka, Masato Okabe and Tadashi Yamada
- x794. Watershed Health: Public Health Perspectives and Implications. **Mansoor A. Baloch**
831. Colorado Climate Action Plan Scenario Analysis for Power Sector. **Saeed G. Barhaghi**

15-2 Energy-related Environmental Problems

764. Household Energy Consumption Pattern: A Case Study for Urban Indian Village. **Harshika Kumari**, Vinod Joon, Avinash Chandra, S.C. Kaushik
768. Emissions of Pm 2.5 and Co from Fuel/Stove Combinations Used in Rural Haryana, India. **Vinod Joon**, Harshika Kumari, A. Chandra, M. Bhattacharya
771. Empirical Study of Energy Efficiency and Carbon Intensity in Fossil Power Generation. Ivan Hascic and Nick Johnstone, **Elena Verdolini**
862. Urban Design and Planning Impacts on Energy Use and Resource Consumption. Robert W. Peters and **Candace J. Watson**

15-3 Environmental Policy and Management

566. Bringing Social Support to Natural Resources Planning. **Kamran Zendehe**, Ludwig Luwers
696. The Environmental Policy and Administration in Bangladesh: An Overview. **Noor Mohammad**
754. Lessons from the Proposed Radioactive Waste Disposal Site at Yucca Mountain, Nevada. **Omar M. Al-Qudah**, Irasema Coronado, John Walton, and Ed Hamlyn

- xx879. Assessment of Cleaner Production Options for Electrolytic Manganese Metal Industry of China. **ZhiGang Dan**, Ning Duan and Fan Wang
880. Risk-based Approach for Examining Vertical Separation Distances in On-site Wastewater Disposal Systems. **Anthony M. Janicek** and Mark A. Tumeo
- x952. Challenges Confronting Strategic Environmental Assessment System of Taiwan. **Shui-Ping Chang**, Yi-Chao Lee, Chih-Sheng Lee
935. Cost-Quality Optimization of Pedestrian Paver Blocks Using a Green Binder. **Mandana Rezaee**, and Habib Bayat

16. Renewable Energy Development

16-1 Wind Energy

599. Evaluating Wind Energy Potential in a Coastal Region in the South Pacific. **Joseph Fisher**, Helen E. Muga

16-2 Solar Energy

541. Fostering Solar Energy? – Role of Environmental Planning and Policy in California & Germany. Gesa Geissler and **Johann Köppel**
550. Performance Analysis of Artificially Roughened Duct Used in Solar Air Heaters. **Ranjit Singh**, Brij Bhushan and Tarun Mahajan
563. CFD Based Analysis of Artificial Roughened Duct used in Solar Air Heaters. **Brij Bhushan**, Ranjit Singh and Aman Soi
720. Applications of Renewable Energies for Storage of Horticultural Produce in Marginal Areas of KENYA: The performance Evaluation of a prototype Solar-Charcoal Cooler. **J.T. Makanga**, D. Shitanda, C. Njoroge and M.G. Ong'era
- x930. Solar Energy from Oceans. **Ernst Knolle**

16-3 Bio-fuels and other Technologies

- x577. Microbial Diversity in a Rice Paddy Soil - MFC System by Stable Isotope Probing. **SrikanthSMutnuri**, Achal Kumar Mall, Petra Bombach and Hans H. Richnow
- x689. Waste Plastic Conversion into New Source of Energy. **Moinuddin Sarker**, Mohammad Mamunor Rashid and Mohammad Molla
737. Generation of Bioenergy from Corn Stover with Air-Cathode Microbial Fuel Cells. **Haiyang Huang**, and Tian C. Zhang
- x743. Briquetting: The Solution to Agro-Waste Management. Naron, D. R. and **Yakubu, Juliet M.**
- x782. Platinum Functionalized Aligned Carbon Nanotubes Used as Cathode Catalyst of Fuel Cell. Yuan Yuan and **Jingbo Liu**
786. Enhancement of Biogas Production from Rice Straw through Alkaline and Mechanical Pretreatment. **Yue-Chao WANG**, and Zhong-Fang LEI
799. The Plasma Resource Recovery System (PRRS): Clean Energy from Waste. **Pierre Carabin**, Andrew Carkner, and Chawki Derboghossian
825. Utilization of Municipal Solid Waste for Biogas Production and Heat and/or Electricity Generation. Ajay Kumar Jha, **Sushma Pradhan**, Li Jianzheng, and Mike Hoover
- x955. Biodiesel Production from Guindilla Oil (Guindilia trinervis Gillies ex Hook. et Arn.). **Ricardo San Martín**, Marlene Gebauer and Doris Prehn, Miguel Jordan
989. A Study of Biomass Production from Micro-Algae Cultivation by Employing Domestic Wastewater. **Hsin-Hui Wu**, Sue-Huai Gau, Chang-Jung Sun, Yu-Ya Su
996. Utilization of Sewage Sludge for Energy Efficiency and Global Warming. **Rashad Rafique**, Nizami Abdul-Sattar, Tjalfe Poulsen
1139. Energy Recovery from Rice Husk Using Microwave-Induced Pyrolysis. **Wen-Hui Kuan**, and Chi-Cherng Lu
618. Assessment of the Calorific Values of Briquettes from Ten Selected Wood Species and Their Corresponding Solid Wood. **C. Antwi-Boasiako**, A. Dansoa Appiah-Denkyira, Jobson Mitchual
642. Hydrogen Generation Using Al/TiB₂ Composite Powders Reacted With Water at Room Temperature. **Yijie Zhang**, Naiheng Ma and Haowei Wang

Film Session

861. Blind Spot: Peak Oil & the Coming Global Crisis