

Final Program



The Sixth International Conference

on

Environmental Science and Technology

Sponsored by
American Academy of Sciences



<http://www.aasci.org/conference/env/2012>
env-conference@aasci.org

June 25-29, 2012

**Hilton Houston North Hotel
Houston • Texas • USA**

International Conference of Environmental Science and Technology 2012

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WELCOME TO *ICEST2012*

Welcome to the Sixth International Conference on Environmental Science and Technology 2012

It is my pleasure to welcome you to this unique, international environmental science and technology conference. There will be technical presentations from scientists from around the world on a broad range of environmental topics: i.e., surface water quality, drinking water, wastewater treatment, soil remediation, air quality, water resources, recycling, restoration of ecosystems, bio-accumulation, microbial degradation, modeling, metals, global topics, remote sensing, analytical techniques, education and sustainable development. The plenary speakers are outstanding scientists with international recognition: **Dr. Katherine Bennett Ensor, Professor and Department Chair** at Rice University, Houston, TX, USA will make a presentation on *Data Driven Estimates of Air Quality in Houston with Continuous Spatial and Temporal Resolution*; **Professor Zheng Zheng, Head** of Basin Pollution Control Research Center at Fudan University, China will present *Challenges, Strategies, and Practices of Watershed Pollution Control in China*; **Dr. A. Mark Ibekwe, USDA-ARS U.S. National Salinity Laboratory, Riverside, CA, USA** will present *Analysis of Escherichia coli O157:H7 Survival in Major Leafy Green Producing Soils based on Topological Data*; and **Dr. Farid Benyahia, Professor and Department Head** at Qatar University, Doha, Qatar will answer the question: *The Carbon Conundrum: One or Multiple Solutions?*

Conference attendees will have a unique opportunity to communicate with world-class scientists about research ideas, to exchange environmental management experience with international peers, to seek project partners, to discuss possible collaboration with other delegates, and to build solid long-term partnership relations with worldwide professionals face to face.

We wish to extend our thanks to all people in the conference team and our session chairs, advisory committee members, for their support and dedication to making this conference a success. We hope you enjoy the Conference program and your stay in Houston.

George Sorial
Conference Chair

GENERAL INFORMATION

Location and Schedule. All sessions, exhibits, and all other events will be held at the Hilton Houston North Hotel. See the floor plans for the location of Conference events and the Program at a Glance for a summary of the schedule.

Registration. The Registration Desk will be open from 8:00 PM Monday, June 25, 2012 and available throughout

all Conference activities. Registrants will receive the *Final Program, Paper Abstracts*, tote, pen, name badge, and payment receipt. Name badges for walk-in registrants may not be immediately available.

Exhibits. Exhibits will open Tuesday, June 26, 2012, in the Registration Hall, concurrent with the conference. The exhibits will continue through Friday, June 29.

Plenary Meeting. The program will open formally at 9:10 AM Tuesday, June 26, in the Raphael Ballroom for the plenary session.

Platform Schedule. Technical sessions will begin at 1:30 PM Tuesday, June 26, and will be conducted in four or five concurrent tracks through Friday. Sessions, titles, and presentation times for all papers have been listed in the program. This schedule reflects the data as of June 5, 2012. Revisions that become necessary after June 5 will be marked on the overview sheets posted in the Registration Area. Presenters should contact the chairman and technicians 20 minutes prior to the meeting at the presentation room and connect their laptop computers to the slide facilities. If a scheduled speaker is absent in a session, speakers in the waiting list with a reference number (listed beneath the scheduled speakers) will replace the absent presentation at the residing session chair's discretion. PPT files have been installed into each laptop if the documents were emailed to the conference before June 23, 2012. Presenters are encouraged to use the laptops provided by the conference for presentations, although presenters may use their own computer if they wish. Projectors are provided in each meeting room.

Poster Schedule. All posters will be displayed and presented in the Atrium Lobby. Posters I will be displayed from 7:00 PM to 9:00 PM Tuesday evening (June 26), while Posters II will be displayed from 7:00 PM to 9:00 PM Wednesday evening (June 27). Poster numbers are marked on each poster board.

During the two-hour evening sessions, presenters will be standing at their posters to discuss their work with visitors. Presenters are responsible for removing the poster materials after the session ends at 9:00 PM.

Paper Awards. Paper Awards will be announced in the Hilton Raphael Ballroom B at 6:45 PM on June 28, 2012.

Speaker Ready Room. To assist you in your presentation, the conference will provide a Speaker Ready Room with projectors. We recommend that presenters come to the speaker ready room the day BEFORE their presentation to check for connectivity and resolution. We further recommend that authors conduct dry runs of their entire presentation prior to the scheduled talk. This dry run should be conducted in a location other than the speaker ready room.

The hours of operation for the speaker ready room will be from 7:30 AM to 6:00 PM Tuesday through Friday. The speaker ready room is located in Salon 9.

Information Board. An information/message board is set up at the registration area.

Luncheon/Diner Tickets. Registration Desk will be responsible for event tickets provided during the conference. Registrants may purchase meal tickets for their families at the Conference Registration Desk.

Tuesday Luncheon Buffet and Thursday Dinner. The luncheon buffet will be provided on Tuesday (June 26) from 12:00 PM to 1:30PM in the Raphael A. A dinner will be provided on Thursday (June 28) from 7:00-9:00 PM in the Raphael A.

The Hilton Houston North Hotel and Marriott Hotel

The Conference will be held at the Hilton Houston North Hotel (12400 Greenspoint Dr. Houston, TX 77060, USA) adjacent to the Greenspoint commercial/ business center and shopping mall. It is only minutes from the Sam Houston Racepark, and twelve minutes from Bush International Airport with complimentary transportation. Conveniently located on Greenspoint Drive, the hotel is located just northeast of the intersection of I-45 and the Sam Houston Parkway, 25 minutes from the George R. Brown Convention Center.

The Marriott Houston North is a sister hotel of the Hilton Houston North. Some of our attendees will stay in the Marriott Houston North. The distance of two hotels is about 960 meters.

Shuttle Service. Hilton's shuttle service is from 5 am to 11 pm every 30 minutes. The shuttle direction is Hilton Hotel → Marriott hotel → Bush International Airport Houston → Marriott Hotel → Hilton Hotel.

Proceedings. The proceedings will be published after the Conference and mailed to all registrants who paid registration fees. Others can order the proceedings (books@aasci.org) after October 15, 2012. Proceedings will only be available as PDF file (CD) this year.

PLENARY MEETING SCHEDULE

Raphael Ballroom, Tuesday, June 26, 2012

- 9:10 A.M. – 9:15 A.M. **Welcome and Opening Remarks. Professor George Sorial, Ph.D.** (University of Cincinnati, Ohio, USA), Conference Chair
9:15 A.M. – 9:50 A.M. **Data Driven Estimates of Air Quality in Houston with Continuous Spatial and Temporal Resolution. Dr. Katherine Bennett Ensor, Professor** (Rice University, Houston, TX, USA)
3:50 A.M. – 10:25 A.M. **Challenges, Strategies, and Practices of Watershed Pollution Control in China. Professor Zheng Zheng** (Fudan University, Shanghai, China)
10:25 A.M. – 10:40 A.M. Break/Coffee

Muruganandham*, Ramakrishnan Amutha, Mika Sillanpaa

1292. Modeling Competitive Biosorption of Cadmium (II) and Zinc (II) Ions by Protonated Citrus Peels. **Abhijit Chatterjee**, and Silke Schiewer
1332. Using Bamboo Based Bio-Adsorbent Evacuation of Chemical Oxygen Demand (COD) from Textile Waste Water. Bharat Jain, **Keyur J Vaghasiya**, Pradipsinh K Raulji
907. Analysis of Pharmaceutical and Estrogen Contaminants from a Rural Wastewater Treatment Facility. **Xiaolin Li**, Wei Zheng, Walton R. Kelly
883. Study on Domestic Wastewater Treatment by Combining Artificial Aeration Constructed Wetland. Jizheng Pan, Wenchao Li, Houhu Zhang

C5 02-02 Air Quality Assessment (C) 02-05 Air Pollutant Monitoring

Wednesday, June 27 | Raphael Ballroom C
Chair: Dr. Harmonie A. Hawley (California State University, USA)

- 8:00 524. Monitoring the Kinetics of the Photo-degradation of Benzene with Hydroxyl Radicals. Aubrey A. Heath, Franz S. Ehrenhauser, Kalliat T. Valsaraj
- 8:25 818. PM_{2.5} / PM₁₀ Characters during Meji Burning in the Brahmaputra Valley (India). Pratibha Deka, R.R. Hoque and Ratan Baruah
- 8:50 1033. Development and Application of Thermal Desorption Method for Airborne Polyfluorinated Alkyl Substances. **Yaoping Wu**, and Victor W.-C. Chang
- 9:15 1198. Spatial Variability of Particulate Matter on a California University Campus. **Harmonie Hawley** and Diep Vu
- 2-2
- 9:40 957. Environmental Effect of Road Development on Some Air Quality Parameters in Niger Delta, Nigeria. John U. Akpabio, Mandu A. Essien-Ibok, Anthony W. Akpan

875. Particulate Matter Flux Deposition in the Vicinity of A Coal-Fired Power Plant. M.L. Dinis, J. Góis, A. Fiúza, J.S. de Carvalho, A.C.M. Castro
501. Spatio-Temporal Bio-Monitoring of Urban Dust of Allahabad City, India. **Munmun Chakarvorty*** and J.K. Pati
529. Effects of Climate on Real Time Monitoring Pollutants Emitted from Cement Factory. **Yasin AIZubi**, Jarrah AIZubi, Indira Al-Dahabi
559. Ammonia Emissions from a Representative In-use Fleet of Vehicles in Guangzhou. **Boguang Wang**, Hao Wang, Jun Yang, Lei Zhou, Jurong Shuang, Qing Huang, and Shaofeng Zhong

10:05 Break/Coffee

C6 02-06 Hazardous Gas Biofiltration 02-07 Catalysts for Reducing Emission 02-08 Fuel Gas DeSOx, DeNOx, and Metal Removal

Wednesday, June 27 | Raphael Ballroom C
Chair: Dr. C.V. RAJESWARI (Govt. Degree College, India)

- 2-8
- 10:30 582. Simultaneous Mineralization of Coal Combustion Flue Gas CO₂, SO₂, and Hg with Fly Ash. **Brandon Reynolds**, and KJ Reddy
- 10:55 1338. Mercury Adsorption by a Modified Activated Carbon. **Jinjing Luo**, and Qiang Niu, Zhongye Wang
- 2-6
- 11:20 721. Anaerobic Removal of Chloroform Using Tricking Bed Gas Biofilters. **Bineyam Mezgebe**, and George Sorial, Ashraf Aly Hassan,

- 11:45 855. Benefit of Alternate Use of Hydrophilic VOC in Biofiltration of Hydrophobic VOCs. Abderrahman Zehraoui, and George A. Sorial

D5 03-01 Contaminants in the Subsurface

Tuesday, June 27 | Raphael Ballroom D
Chair: Dr. Chiu-Shia Fen (Feng Chia University, Taiwan)

- 8:00 753. Assessment of Heavy Metal Leaching Rates from Topsoils on Regional Scale. J. Schmidt, A. Steinz, M. Schindewolf
- 8:25 839. Experimental Study on Dense Gas Transport in Porous Media. Chiu-Shia Fen, and Yuen Cheng
- 8:50 1112. Polycyclic Aromatic Hydrocarbons Degradation Model in the Marsh Wetland Sediment. **Doorce S. Batubara**, Ronald F. Malone, and Donald D. Adrian
- 9:15 1178. Geotechnical Properties of Soils Affected by Acid Mine Drainage from the Goldfields of South Africa. **Stephen O. Ekolu**, Ronald F. Malone, and Donald D. Adrian, Vivek Madhav,
- 9:40 776. Fate of Arsenate Adsorbed on Nano-TiO₂ with Sulfate Reducing Bacteria. **Chuanyong Jing**, Ting Luo, and Suqin Liu

673. Evaluation of Pollution Level of Soils of Ecological Vulnerable Areas around Agarak Town. **Ghazaryan K.A**

10:05 Break/Coffee

D6 03-03 In-Situ Remediation 03-05 On-site and Off-site Remediation 03-08 Waste Fuel Site Remediation

Tuesday, June 27 | Raphael Ballroom D
Chair: Dr. Arun D. Pophale (Visvesvaraya National Institute of Technology, India)

- 3-5
- 10:30 750. Remediation Efforts at Saudi Aramco. **Ramzi Hejazi**, Humoud Al-Utaibi
- 10:55 1098. Ex-Situ Measurements of Dioxin Bioavailability in In-Situ Remediated Deep Fjord Sediments. Cand. real Morten Thorne Schaanning, Ian Allan, Sarah Josefsson,
- 3-8
- 11:20 609. Experimental Investigation of Free Hydrocarbon Recovery in Layered Porous Media. M.S. Al-Suwaiyan, Sangchul Hwang* and Rafael Montalvo, M.H. Essa and S. Lukman
- 11:45 615. Drilling Wastes Management Case Study in Southern Tunisia. **Houcine Mejri**, and **Moncef Saidi**

- 3-3
1196. Emerging Engineering Technologies for Insitu Treatment of Acid Mine Drainage. **Stephen O. Ekolu**, Zvanaka Mazhandu, Firehiwot Azene
603. Biodegradation of Crude Oil by Fungi Isolated from Gulf of Mexico. **Hussein Al-Nasrawi**

E5 05-01 Human Exposure 05-03 Bioavailability and Bio-accumulation

Wednesday, June 27 | Salon 1
Chair: Dr. Juliet M. Yakubu (Federal University, Nigeria)

- 8:00 622. Cellular Phone Exposure Effect on Brain and Testicular Pattern of Wistar Rats. **Kavindra Kumar Kesari** and J. Behari
- 8:25 798. Mitigation of Power Lines-Produced Magnetic Fields by Optimized Active Shielding. Hussein Anis, and Ayman Aboud, **Hussein Anis**
- 8:50 1093. A Hydrologic Approach to Radioactive Substance in A Human Body – II. **Syota Sasaki**,

Hayase Yoneda, and Tadashi Yamada, Tomohito Yamada

- 9:15 1107. Cytotoxic Effects of Mycotoxin in Human Monocytes and Mechanisms. **Ruoting Pei**, and **Jun Liu**

15-3

- 9:40 1341. Effect of Active-Packaging Color and Oxygen Permeability on Salmon Oil Quality. **Muhammad Javed Akhtar**, Muriel Jacquot and Stéphane Desobry

696. Study of Izozyme Polimorphism in Natural Scots Pine Populations Developing under Chronic Radiation Exposure. Volkova P., Geras'kin S., Prikova J., Novikova T.

697. Database "Effects of Ionizing Radiations on Agricultural Plants". Dubynina M., Oudalova A.

915. Integrated Radon/Thoron Exposure Studies in Some Areas of South-Western Punjab, India, Using Nuclear Track Detectors. Surinder Singh, and Sanjeev Kumar

1084. Some Biochemical Parameters of Young Parkinsonian Patients from Niger-Delta Region of Nigeria. C. C. Osuor, N. G. Idemili

5-3

1340. Physiological and Biochemical Effects of Sodium Fluoride (NaF) on Pisum Sativum Var AZAD P-1. T.J.Khan

10:05 Break/Coffee

E6 01-04 Groundwater

Tuesday, June 27 | Raphael Salon 1
Chair: Dr. Mansoor A. Baloch (National Centers for Disease Control and Prevention, USA)

- 10:30 877. Development of a Watershed Based Groundwater Vulnerability Assessment Tool. **Mansoor A. Baloch**, Liara Sahar

- 10:55 984. Hydrogen Dissolution Rates in Hydrogenotrophic Denitrification Process Equipped with Solid-Polymer-Electrolyte (SPE) Membrane Electrode. **Ryosuke Mine**, Masahito Komori, and Yutaka Sakakibara

- 11:20 990. Bioremediation of Endosulfan Contaminated Groundwater Using Natural Zeolite Supported Biobarrier. **Selim L. Sanin**, Ayla Bilgin

- 11:45 1222. Applicability of the Spanish Standards ROM 5 for Port Bourgas Sea Water Environmental Assessment. **Jordan Marinski**, Magdalena Korsachka, Elitza Angelova, Rumen Marinov, Stefan Tsakovski.

550. Reuse of Saline Groundwater Enhances the Quality of Landscape. **Ghazi Abu Rumman**

779. Physical, Hydrochemical and Isotopic Characteristics of Spring Waters of Beijing, China. Wang Jinsheng, and **Zhai Yuanzheng***

1117. Assessment of Groundwater Quality and Urban Water Provision at Taifa, A Township in the Greater Accra Region of Ghana. **Afua Anyankwabea Nyarko**, K. D. Kessey¹ and James H. Ephraim²

1183. Overview of Membranes Technologies for Remediating Brackish Water. **Naglaa Eid**

F5/F6 11-02 Water Quality Modeling

Tuesday, June 27 | Raphael Salon 2
Chair: Dr. Ulrike Hirt (Leibniz-Institute of Freshwater Ecology and Inland Fisheries, Germany)

- 8:00 585. Modelling Spatial and Temporal Dynamics in Floodplains: Extent, Nutrient Loads and Retention. **Stephanie Natho**, Markus Venohr

- 8:25 664. Oil Spill Transport in the Wave Channels using Two-Phase Lagrangian Model. Hanifeh Imanian, Mahsa Jannati and Morteza

- 8:50 772. How Can German River Basins Contribute to Reach The Nutrient Emission Targets of the

701. Evaluation of Waste Concrete Materials for Use in Oyster Aquaculture. Dong Hee Kang, Kelton L. Clark, James G. Hunter, Z. Andrew Farkas
757. Study on Preparation of Composite Materials of Montmorillonite. Fu Gui-zhen, Liu Hong, Gong Wenqi
630. Interactions of Ionic Liquids with Uranium and its Bioreduction. **Chengdong Zhang**, Arokiasamy J Francis

E7
01-01 Rivers, Lakes and Estuary Systems

Wednesday, June 27 | Raphael Ballroom e
Chair: Dr. Dongxing Yuan (California State University, USA)

- 1:30 976. A Parametric Study for Investigating the Effect of Input Parameters on Bacterial Concentration in Surface Water from Bridge Nesting Birds. **Manjura Maula Md. Nayamatullah** and Sazzad Bin-Shafique
- 1:55 1086. Spatial Grouping and Temporal Trends in Otolith Chemistry of an Estuarine Fish. **Ana Judith Giraldo**, Bronwyn Gillanders, Travis Elsdon
- 2:20 1134. Physico-Chemical Parameters and Plankton Diversity of Ghanpur Lake, Warangal, Ap. India. T. **Ravinder Reddy**, D. Balakrishna, K. Vasumathi Reddy and D.Samatha.
- 2:45 1166. Sea-air Transfer of Mercury in Post-desulfurization Seawater Discharged from Coal-fired Power Plant, **Dongxing Yuan**, Lumin Sun, Shanshan Lin and Lifeng Feng
- 3:10 1281. Water Quality in Utah Lake Tributaries over 40 Years. **Brett Borup**, Gordon Killarney Liljenquist, Woodruff Miller, Gustavious P. Williams

826. Water Quality Response to the Increasing Human Activities in Fuxian Lake. **Fei Xiong**, Fan Ke and Jizheng Pan
948. Seasonal Consideration of Some Environmental Variables of a Tropical Tidal Creek. **Medina Kadiri**
1319. A Comprehensive Comparison between OSE II, Mechanical Methods and Chemical Dispersants in Laymen's Terms. **Steven Pedigo**

3:35 Break/Coffee

E8
01-03 Water Resources and Assessment

Wednesday, June 27 | Raphael Ballroom e
Chair: Dr. Peter E. Black (SUNY ESF, USA)

- 4:00 668. Characterization of Resistance Pattern of Bacillus to Various Heavy Metals and Antibiotic. **Yamini sisodia**, Vivek Bajpai, Pallavi Sharma and Pankaj Kumar Jain
- 4:25 692. Performance Assessment of Government Managed at Main Irrigation Network in Nile Delta. **Ahmed M. ALY**, Yoshinobu Kitamura, Katsuyuki Shimizu, ARIF Alam, Talaat El-Gamal
- 4:50 982. Nutrient Limitation of Phytoplankton in the Taihu Lake of China. **Jiajia Liu**, Peifang Wang ,Chao Wang and Jin Qian.
- 5:15 1047. The U.S. Flood Control Program at 75. **Peter E. Black**
- 5:40 1065. Importance of Diversion of Water from Major River to Irrigation Reservoirs for Bird Density and Diversity in Semi-arid
815. Cleaner Production Potentiality Analysis of Electrolysis Manganese Production in China. **Fan Wang**, Xiaojuan Gao
591. Management Strategy for Improving Barley Productivity and Nutritional Value in a World of Water Shortage. **Tawfik, M.M.**; Maha, M. Tawfeek; A. T. Thalooth; M. O. Kabish ,E.M. Abd El Lateef and Amany, A. Bahr.

651. Integrated Water Resources Management in Ghezeloan-Sefirdrud Basin. **Keyvan Kimiale**, Abdolrahim Salavitarbar
702. Identification of Techniques to Meet pH Standard During In-stream Construction. **Dong Hee Kang**, Mark M. Bundy, James G. Hunter, Z. Andrew Farkas
741. Hydro Chemical Research of «Yerevan Lake» Reservoir. **Tatevik Derdzyan**, Gevorg Pirumyan
884. New Microbial Flocculant ETYBF for Seawater Treatment. Tianxiang Jiang, Yushan Zhang and **Jing Wang**.

1207. Study on Calculation Methods of Agricultural Water Supply Cost in the Plain Irrigation Area of the Yellow River. **Guo Rui**, and Cao Shengle
1245. Estimating Depth of Watertable Using Radar Imagery Technique. **Roger Numetu**
1335. Selecting Most Appropriate Wastewater Treatment Technologies for Small Arid Communities. **Emad Imam**, Omar Abu- Rizaiza, and Haitham Elnakar
1339. Some Environmental Impacts of Water Management and Utilizing Farm Waste at the Western Desert of Egypt. **M. H. Aboul-Nasr**, M. A. Gamea, Dalia M. Nassef and M.A. Abd El-Gaid

F7
11-01 Environmental Simulation (a)

Wednesday, June 27 | Raphael Ballroom f
Chair: Dr. Aarin Teague (EPA National Laboratory, USA)

- 1:30 796. A Numerical Approach to Quantify Selective Sorting of Heavy - Mineral Assemblages. Gerhard Bartzke and Katrin Huhn
- 1:55 922. Evaluating Combined Toxicity of Multi-component Mixture Using a Comprehensive Model. **Li-Tang Qin**, Shu-Shen Liu, and Qing-Sheng Wu.
- 2:20 1013. Estimation of Missing Values with Different Missingness Mechanism. **Fadhilah Yusof**, Ho Ming Kang and Ismail Mohamed
- 2:45 1032. Regional Data Hub and Time Services to Support Flash Flood Situational Awareness. Stefan Fuest, Matt Ables, **Phil Stefanoff**, David Maidment

3:10 Break/Coffee

F8
11-01 Environmental Simulation (b)

Wednesday, June 27 | Raphael Ballroom f
Chair: Dr. Yongson Ooi (Multimedia University, Malaysia)

- 3:35 1068. Numerical Modeling on Toxin Produced under Nutrient Limited Dominant Cyanobacteria in Lake Kasumigaura, Japan. **Md. Nazrul Islam**, Daisuke Kitazawa, and Ho-Dong Park.
- 4:00 1127. Numerical Modeling of the Performances for Horizontal Axis Tidal Stream Turbine. **Yongson Ooi**, Ai Choong Loh, Dirk Rilling, and Mohd. Zulkifly Abdullah.
- 4:25 1336. Socioeconomic Based Design Peaking Factors for Sewerage Systems. **Haitham Elnakar**, Emad Imam, and Khaled Nassar
- 4:50 804. One Dimension Diffusion-Reduction Kinetic Model for Exterior Phosphorus Pollution into Submerged. Ke Fan, Li W. Ch, Pan J.Zh, Zhao H. G., Xiong F
- 5:15 1023. Methodologies and Tools for the Estimation of Mass Fluxes of Xenobiotics at Different Scales in Urban Areas - The Cities of Halle/Saale and Leipzig (Germany). Frido Reinstorf, **Gerhard Strauch**, **Mario Schirmer**
- 5:40 1174. Studying and Comparing Different Types of Leaching Models. Forough Allahyari Pour, Ebrahim Pazira, Gary Sands, Abbas Habibi, Ali Allahyari pour
519. Hybrid Computational Intelligence Techniques for Accurate Surface Temperature Analysis and

Prediction. Md Monirul Islam, M. I. Hossain, and **Md Rafiul Hassan**.

837. Modeling the Fate and Transport of Residual Chlorine and Chlorine By-Products (CBP) in Coastal Waters of the Arabian Gulf. Venkat S. Kolluru
958. Mercury Fate and Transport in Hunza and Gilgit Rivers, Northern Areas, Pakistan - A Numerical Modeling Approach. **Kivanc Biber**, Shuhab Khan, Shams Ul-Hadi, Mohammad Tahir Shah, Shahina Tariq
1142. Modelling Habitat Requirements of the Critically Endangered Arabian Leopard Panthera pardus nimr in Saudi Arabia. **M. Zafar-ul Islam**, Alexander Gavashelishwli, Ahmed Boug and Abdullah Shehri.
1223. Residence Time Distribution Determination in A Submerged Biological Filter with and Without Aeration. **Yazmin Lucero Cobos-Becerra** and Simón González-Martínez

Thursday Morning, June 28, 2012

B9/B10

01-08 Drinking Water
01-10 Nitrogen-Phosphorus Wastewater Treatment (b)

Thursday, June 28 | Raphael Ballroom B
Chairs: Dr. George Sorial (University of Cincinnati, USA)

- 8:00 535. Performance Attributes of Modified Biosand Filter with Brass. **Banu Siziirci Yildiz**
- 8:25 628. Using Smart Grid Technologies as a Public Health Protection Tool. Trevor Hill and **Graham Symmonds**
- 8:50 800. Health Risk of Disinfection Byproducts in Recycled Water in Abu Dhabi. **Aina Daniel**, Maren Mieseler², Juan-Rodrigo Bastidas-Oyanedel³, Farrukh Ahmad
- 9:15 857. Adsorption Mechanisms of Copper on Functionalized Multiwall Carbon Nanotubes: Chemical Structures. **Shirley Rosenzweig**, George A. Sorial, E. Sahle-Demessie and Todd Luxton
- 9:40 872. Application of Copper Oxide Nanoparticles to Remove Arsenic from Natural Groundwater. **Ajaya K. Sankara Warrior**, and K. J. Reddy

10:05 Break/Coffee

- 10:30 906. Modelling the Transport of Fecal Microorganisms in Norwegian Drinking Water Sources (Lakes). **Torulv Tjomsland**, Ingun Tryland and Dag Berge
- 10:55 959. Role of DO, pH and Activated Carbon on the Oxidation of As(III). T. **Angele Ngantcha-Kwimi**, Anjuman I Islam, and Brian E. Reed.
- 11:20 981. Effect of Calcium Ion Concentration on Monomer Distribution of Alginate. Çiğdem Kuvılcımdan Moral , Özdemir Doğan, F. **Dilek Sanin**

1-10

- 11:45 838. Stability of the Nitrifying Granules under High Loading Rate. Fang-Yuan Chen, Yong-Qiang Liu, Joo-Hwa Tay, Ping Ning

1162. Ammonia-oxidizing Bacteria-Comamonas Aquatic LNLs and its Partial Nitrification Characterization. **Zhengkui Li**, Ling Zhao, Tao Zhou, Ningmei Wu
578. Fabrication of a Lanthanum Based Candle Type Filter for Removal of Fluoride from Water. **C M Vivek Vardhan**, M.Srimurali and J.Karthikeyan,
760. Impact of Small Amount of Chlorine Dioxide on Chlorine Disinfection Efficiency. Wu Yang, Sui-yi Zhu and **Ming-xin Huo**, **Jun-wen Li**
885. A New Arsenic Remediation Process with Treatment of Residual (ABRS). **Akshoy Kumar Chakraborty**
905. A Comparative Study for the Adsorption of Trichloroethylene in the Presence of TiO₂