

PLATFORM PRESENTATION SCHEDULE

Tuesday Morning, June 26, 2012

A1/A2 Plenary Session

Tuesday, June 26 | Raphael Ballroom BCD
Chair: Dr. George A. Sorial (University of Cincinnati, USA)

- 9:10 A.M. – 9:15 A.M. **Welcome and Opening.** Professor **George A. Sorial** (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)
- 9:50 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
- 10:40 A.M. – 11:15 A.M. *Analysis of Escherichia coli O157:H7 Survival in Major Leafy Green Producing Soils based on Topological Data Analysis.* **Dr. A. Mark Ibekwe**, (USDA-ARS U.S. National Salinity Laboratory, Riverside, CA, USA)
- 11:15 A.M. – 11:50 P.M. *The Carbon Conundrum: One or Multiple Solutions?* **Dr. Farid Benyahia, Professor** (Qatar University, Doha, Qatar)

Tuesday Afternoon, June 26, 2012

B3/B4 01-16 Reactions and Degradation of Wastewater Contaminants / 01-15 Physico-chemical Wastewater Treatment

Tuesday, June 26 | Raphael Ballroom B
Chairs: Prof. Ahmed Elshazly (King Abdulaziz University, Saudi Arabia)
Dr. Kuo-Lin Huang (National Pingtung University of Science and Technology, Taiwan)

- 01-16
- 1:30 789. Sulfate Radical-Based Advanced Oxidation Technologies for the Decomposition of Triclosan. **Prince A. Nfodzo**, and Hyeok Choi
- 1:55 828. Sludge Retention Time (Srt) Effects on Landfill Leachate Treatability by Membrane Bioreactor. Rouhallah Mahmoudkhani, **Ali Torabian**, Amir Hessem Hassani and Seyed Mehdi Borghei
- 2:20 853. Electrochemical Treatment of Trace Endocrine Disrupting Chemicals by A Novel Granular Electrode. **Huu Cong VO** and Yutaka SAKAKIBARA
- 2:45 997. Electron Spin Resonance Analysis of Bio-Fenton Process. **Shoichi NAGAHASHI** and Yutaka SAKAKIBARA
- 3:10 517. Comparative Assessment of Photocatalytic Degradation of Azo, Triphenyl Methane and Thiazin Dye. **A. K. Gupta**, C. Sahoo, Indu M. S.
743. Kinetics and Photodegradation Study of Acid Red 88 Using Visible Light. Padmini.E and **Lima Rose Miranda**
- 3:35 Break
- 01-15
- 4:00 586. Sustainable Treatment Technology Using Nanostructured Iron iCombined Removal of

- Heavy Metal and Organic Chemicals. **Indumathi M Nambi**, and Ambika M,
- 4:25 808. Dechlorination Treatment of Wastewater Containing Trichloroethylene and Tetrachloroethane by Fe-Ni Alloy Powder, **Aibin Zeng**
- 4:50 847. Study on the Desalination and Concentration of Dye from Wastewater by Nanofiltration. DONG Hang, DAI Xingguo, ZHOU Zhijun, **ZHANG Lin**, CHEN Huanlin, XIE Lin.
- 4:25 1175. Colour and COD Reduction of Synthetic Reactive Dye Wastewater using Thermolysis. Ruchika Agnihotri and **Pradeep Kumar**
- 5:40 1278. Kinetics of Phosphate Removal from Hot Effluents Using Batch Electrocoagulation Reactor. **Ahmed H. El-Shazly** ; Abdulraheem A. Al-Zahrani; Yahia A. Alhamed
860. Comparative Evaluation of Pre- and Post-Ozonation on the Biological Treatment of Distillery Spent Wash. Namasivayam Vasudevan, and Ramalingam Kanimozhi
537. Removal of Dyes from Textile Effluents by Electrocoagulation. **C M Bindu Nath**, C M Vivek Vardhan, Vasudevan, and Ramalingam Kanimozhi
1029. Redox Mechanism of Fe²⁺/Fe³⁺ During Fenton's Oxidation of P-Nitrophenol. Gao Yingxin and Zhao Yun
1213. Using Organic Modified Bentonite on Treatment of Banknote Printing Wastewater. Geng Qiao, **Yi Xing**, A Erman, Fei Ran, Peng Guo

C3 02-02 Air Quality Assessment (A)

Tuesday, June 26 | Raphael Ballroom B
Chair: Dr. **Mingming Lu** (University of Cincinnati, USA)

- 1:30 541. Vehicular Pollution in Kurnool - A Case Study. **C.V.Rajeswari**
- 1:55 548. Comparison of PM_{2.5} by Different Instruments in a Midwestern US City. **Carlos Pacas, Mingming Lu**, Xianlie Wan, Anna Kelley
- 2:20 561. Radon & Chemical Contaminants in Indoor Air & "Soil Gas Safe" Communities. **Henry John Schuver**, Jalbert, P., Steck, D., Siegel, L., Nicol, A., McKenzie, A., and Blewett, C.
- 2:45 770. Characteristics and Ship Traffic Source Identification of Air Pollutants in Shanghai Port. **Yan Zhang**, Minjiang Zhao, Weichun Ma and Limin Chen
- 3:10 873. Role of Carbonaceous Aerosol in Visibility Impairment in A Tropical Mega-City. P. S. Killare, Sayantan Sarkar and Darpa Saurav Jyethi
- 3:35 Break/Coffee

C4 02-02 Air Quality Assessment (B)

Tuesday, June 26 | Raphael Ballroom B
Chair: Dr. Anuj Kumar (New Mexico State University, USA)

- 4:00 890. Estimation of Historic Black Carbon Reduction Co-Benefit from PM Control in Mainland China. Wei Wei Song, Ke Bin He and Jeremy Schreifels, Yu Lei
- 4:25 952. Toxicity and Chemical Composition of Ambient Particulate Matter from Aachen, Germany. **Sabrina Michael** and Wolfgang Dott.
- 4:50 1015. Emission of Volatile Organic Compounds from Green Waste Composting: An Overview. **Anuj Kumar**

- 5:15 1085. Indoor Air Quality Survey of Boston Nail Salons. **Meda Kisivuli**, Liza Ansher, Ariana Berlin, Jenny Cheng, Deena Kanopkin, Anna Khazan, Molly Lortie, Emily Peterson, Laura Pohl, Sam Porter, Vivian Zeng, Tiffany Skogstrom, Joseph Allen, Matt Fragala, Theodore Myatt, James Stewart, Laura Goldin
- 5:40 1323. Lichen Biomonitoring along A Potential Pollution Gradient in South West Western Australia. **Meenu Chathurika Vitarana**, W.D. Stock, A. Hinwood
961. Near-road Black Carbon Emissions at an Urban Campus Intersection. Jiangchuan Hu, Shuang Liang, Mingming Lu, Tim C. Keener, Zhuo Yao, and Heng Wei,
1082. Ambient Ozone in Georgia: Implications of a Stricter 8-hr Standard, 2008-2011. **André J. Butler** and Kerry Hicks.
1342. Impact of Fujairah Power Plant-UAE on Air Quality . **Muthanna Abdulwahab Al Omar**, Fadi Al Jallad and Santosh K.L
763. A Study on Effect of Almahdi Aluminium Factory of Bandar Abbas on Environment Status of the Region with Emphasizing on Measuring of Some Scarce Metals Existing in the Air (Atmosphere). Maryam Ehsanpour, Maryam Malekpour.
521. The PCDD/Fs Characteristics in Ambient Particles near a MSWI in Guangzhou, China. Bo-Guang Wang, Chun-Lin Zhang
569. Air Pollution Impacts on Children Health in Indian Cities: Challenges Ahead. Surendra Kumar Yadav
600. Indoor Air Pollution by Nicotine A Major Constituent of Tobacco Smoke and Influence of Nicotine on Adolescent Students. Jyotsna Lal
637. Green Concrete Technology. D B Rajiwala, H S Patil, I U Kundan
642. Air Pollution in Albania. Pal Nikolli

D3 03-04 Solid Waste Managemnt (A)

Tuesday, June 26 | Raphael Ballroom D
Chair: Dr. Vasil Diyamandoglu (The City College of New York, USA)

- 1:30 545. Development and Implementation of a Recycling Program in an Elementary School. Vasil Diyamandoglu, **Miriam N. Ward**, and Blake Wells
- 1:55 1136. Implementation of Global Product Classification by the Reuse Sector in New York City. LORENA FORTUNA, DAVID HIRSCHLER, **VASIL DIYAMANDOGLU**
- 2:20 558. Effectiveness of Material Recovery During Complete Deconstruction of Wood Frames Houses – A Case Study. Vasil Diyamandoglu, Bishoy Takla and Wojciech Bzdrya
- 2:45 811. Site Evaluation for Olive Mills Waste Composting Facility. **Mervat El-Hoz**, and Amal laaly. Mervat El-Hoz
- 3:10 917. Characteristics Changes of By-Products Origin Sand-Alternatives in Sea Water and Sediment. **Tetsuji Okuda**, Satoshi ASAOKA, Hitomi YANO, Satoshi NAKAI, Wataru NISHIJIMA, Kenji SUGIMOTO, Yorihide ASAOKA, Mitsumasa OKADA

3:35 Break/Coffee

D4 03-04 Solid Waste Managemnt (B)

Tuesday, June 26 | Raphael Ballroom D
Chair: Dr. Juliet M. Yakubu (Federal University, Nigeria)

- 4:00 985. The Use of Fuzzy Cognitive Maps in Modeling Regional Waste Management Systems. **Adrienn Buruzs**, and Miklós Bulla
- 4:25 1265. Study on Characteristic of Electrolysis Manganese Slag. **Chang Bo Zhou**, Bing DU and Qianqian PEI
- 4:50 1291. Technology Devoid of Human Approach Brings Misery for Masses: A Case Study. Binayak Rath,
- 5:15 1315. Evaluation of Bacteria and Metals in Sewage Dump Site in Jos-Nigeria. **Yakubu, Juliet M and** Agarry, O. O.
- 5:40 1343. A New Concept of Technology of Mineral-Organic Fertilizers from Wastes. Helena Górecka, **Radosław Wilk***, Henryk Górecki, Katarzyna Chojnacka
551. Factors Affecting the Selection Between Demolition versus Deconstruction in Building Removal. Vasil Diyamandoglu, **Bishoy Takla** and Wojciech Bzdrya
530. Improvement in Bottom Ash Recycling Potential through Washing and Macro-Porous Cryogels Treatment. **AAMIR ILYAS**, Linda Önnby and K.M. Persson
686. Vermitechnology for Recycling of Waste Biomass of Citronella Plant (*Cymbopogon winterianus* Jowitt). H. Deka, S. Deka, C.K. Baruah, J Das and P. Sarma
920. Coal Waste Management by Oil Agglomeration Technique. **G. H. V. C. Chary** and M. G. Dastidar
987. Experimental Study on Anaerobic Thermophilic Digestion of Pre-Thickened Waste Activated Sludge. **Zifu Li**, Fubin Yin, Lei Xun, Xuan Liu, Shikun Cheng
- Implementation of Global Product Classification by the Reuse Sector in New York City. LORENA FORTUNA*, DAVID HIRSCHLER**, VASIL DIYAMANDOGLU *
1220. Biogas Production from Enzymatically Pretreated Mexico City's Organic Waste. Rosalinda Campuzano, and Simón González-Martínez
1262. The Effects of Socioeconomic Parameters on Household Solid Waste Generation and Composition in Developing Countries (Case Study: Iran). **Farzaneh Fakheri Raof**, Ali Khoshrafter

E3
05-04 Microbiology and Microbial Degradation (a)

Tuesday, June 26 | Salon 1
Chair: Dr. Juliet M. Yakubu (Federal University, Nigeria)

- 1:30 641. Occurrence of *Escherichia coli* O157:H7 in Bovine Manure from Farm and Abattoir Environments. Itelima Janet, and Agina Samuel
- 1:55 819. Species of Yeast Associated With Some Nigerian Fruits. **Ogbonna, Abigail I.,** Ogbonna, Chike I. C. and Onyimba, Isaac A
- 2:20 1111. Estrogenic Endocrine Disruptors are Substrates of Antibiotic Pumps in Wastewater Bacteria. **Xinhua Li**, Andrew Madsen, and Otakuye Conroy-Ben
- 2:45 1158. Production of Extracellular α -Amylase Enzyme by Thermophilic *Bacillus* sp. Isolated from Rajasthan, India. **Deeksha Gaur**, Pankaj K. Jain and Vivek Bajpai.
- 3:10 1185. Characterization of Microbial Communities Associated With Crude Oil Pipelines Corrosion Products. **Faisal Mohammed Alabbas**, Charles Williamson², John R. Spear², Anthony Kakkovbia¹, David L Olson³, and Brajendra Mishra
- 3:35 Break/Coffee

E4
05-04 Microbiology and Microbial Degradation (b)
05-02 Bio-response and Ecotoxicology

Tuesday, June 26 | Salon 1

Chair: Dr. Abigail Ogbonna (University of Jos, Nigeria)

- 4:00 1211. Biodegradation of N, N-dimethylformamide by *Pseudomonas putida* MBDM-S4 and bioaugmentation in SBR system. **Liwei Chen***, Tianming Cai, Shu Cai and Shiyang Liu
- 4:25 1314. Effects of Amino Acids on the Growth and Microcystin Production of *Microcystis Aeruginosa*. **Ruihua Dai**, Yan Liu
- 5-2
- 4:50 921. Hormesis Induced by Mixtures of Ionic Liquids with Sigmoid Dose-Response Curve. **Jin Zhang**, Shu-Shen Liu, Jing Zhang and Hui-Ping Deng.
- 5:15 923. Time-dependent Hormesis Effects of 1-Ethyl-3-methylimidazolium Bromide on Photobacterial Luminescence, Oxidoreductases and Antioxidases. **Jing Zhang**, Shu-Shen Liu, Jin Zhang, Zhen-Yang, Yu and Hai-Ling Liu
- 5:40 988. Arsenic Genes Cluster Analysis of *Streptomyces* sp. F2 and the Application on Phyto-Remediation. **Ping Fang**, Jing Chen, Guangyao Jia, Guangjun Zhang, Jianfu Zhao, Yimin. Zhu, Meijuan Shen, Zhongjun Qin, Xiaoyong Liao, Tongbin Chen

1186. The Influence of Iron Reducing Bacteria (IRB) on the Corrosion of API 5L X52 Linepipe Carbon Steel. **Faisal Mohammed Alabbas**, John R. Spear², Anthony Kakkovbia¹, David L Olson³, and Brajendra Mishra
723. Identification of Sea Cucumber Species around Hengam Island (Persian Gulf). Majid afkhami, Maryam Ehsanpour
- 5-2
727. Effects of Atrazine and Chlorpyrifos on Acetylcholinesterase and Carboxylesterase in Rainbow Trout *Zahra Khoshnood*, Reza Khoshnood
1035. Metabolic Changes Due to Endocrine Disruptive Chemical on *O.Mossambicus*. J.Yasmin, P.S.Navaraj
1149. Fate of Biotoxins in the Environment and Its Health Implications. **Anju Agrawal**

Wednesday Morning, June 27, 2012

B5
01-14 Adsorption/Desorption for Wastewater Treatment (a)

Wednesday, June 27 | Raphael Ballroom B
Chair: **George A. Sorial** (University of Cincinnati, USA)

- 8:00 786. Silica-Alumina Adsorbents for Removal of Dissolved or Dispersed Oil from Wastewater. Alessandra De Folly D'Auris, R. Bagatin, M. Tagliabue, A. Carati
- 8:25 851. Novel Production of Activated Carbon for Hampering Oligomerization of Phenolic Compounds. Liang Yan, and **George A. Sorial**
- 8:50 983. Synthesis and Surface Modification of Ordered Mesoporous Carbons for Resorcinol Removal. **Ruixuan Guo** and Dianel Dianchen Gang.
- 9:15 986. Breakthrough Curves for Heavy Metal Removal from Aqueous Solutions using a Cation Exchange Resin. **M. Hamdzah^a**, Z. Ujang^a, M.M. Nasef^b, H. Hassan^c

9:40 Break/Coffee

B6
01-14 Adsorption/Desorption for Wastewater

Treatment (b)
01-12 Municipal Wastewater Biotreatment

Wednesday, June 27 | Raphael Ballroom B
Chair: Dr. Ashraf Aly Hassan (EPA National Laboratory, USA)

- 10:05 1011. Performance Study of Adsorption Properties of Laterite Soil in Removing Oil and Grease from Wastewater. H. Ajith Hebbar, JAYANTHA K. S.
- 10:30 518. Sorption of Chromium (VI) from Real Wastewater Using Iron Impregnated Calcined Bauxite. **A. K. Gupta**, Krishnadas P. and Indu M. S.
- 1-12
- 10:55 788. Application of Cascade Dielectric Barrier Discharge Plasma Atomizers for Waste Water Treatment. Mr. Wameath S. Abdul-Majeed, Esther P. John Karunakaran, and William B. Zimmerman
- 11:20 962. Effect of Seed Sludge Type on Aerobic Granulation and Treatment Efficiency of Granules. **Yusuf Çağatay Erşan**, İrem Kocaturk, Tuba Hande Erguder
- 11:45 611. Full-scale Experiment on Domestic Wastewater Treatment by Combining Artificial Aeration Vertical Flow and Horizontal Flow Constructed Wetlands System. **Jizheng Pan**, Houhu Zhang, Wenchao Li, Fan Ke
773. Electrochemical Treatment of Industrial Electroplating Rinse Waters. Meyyappan Revathi, Kaliyan Hemampujavalli, **Manickam Velan** and Chiya Ahmed Basha .
925. Adsorption of Dye on Pyrolysed Residue (Bio-Char) of Non-Edible Oil Seedcake Vaibhav Bansal and **M. G. Dastidar**
606. Prospect of Iran Natural Gas Export Projects. (Prospect and Environmental Protection of Iran Natural Gas Export Projects). Hedayat Omidvar
610. Adsorption of Toxic Metals by Water Hyacinth in Mono-Component and Multi-Component Aquatic Systems. Mahamadi, C and Nharingo, T
613. Adsorption Kinetics for the Removal of Chromium (VI) from Aqueous Solution by Plantain Peel (*Musa paradisiaca*) Biomass. Idowu O.S., Adejumo A. A. Oni S. O.
627. Potential Biosorbents for the Removal of Malathion from Aqueous Samples. Gurijala Ramakrishna Naidu, Tharakeswar Yadamari, Kalyan Yakkala, Gangadhar Battala
649. Adsorption Kinetics for the Removal Of Hexavalent Chromium Using Low Cost Materials. Khaldoun Al-Sou'od, Ahmad Abrishamchi, and Massoud Tajrishi
758. Adsorption Using Laterite Material for Effective Removal of Oil and Grease From Wastewater – A Case Study. **K.S.Jayantha** and Ajith Hebbar
762. Research on Removal of Carbon Tetrachloride by Activated Alumina in Water. He Chundong, Liu Hanhu
790. Adsorption of Phenol & O-Cresol from Aqueous Solution by Activated Carbon. Mohammed Hussain Essa
1022. Removal of Organic Pollutants from Leachates by Organically Modified Clays. Vandana Sreedharan and P.V. Sivapullaiah
1056. Palm-Shell Activated-Carbon Modified with Ionic Liquids for Removal of Mercury from Water Samples. **Ahmed Abu Ismaiel**, Mohamed Kheiriddine Aroua and Rozita Yusoff
1132. Process Design of Column for Metal Removal by Rubber Tire Mesoporous Adsorbent. **Brij Bhushan**, Arunima Nayak and V. K. Gupta
1147. Emerging Pollutants: Use of Adsorbents in Drinking Water Purification. **Krishna Gopal**, And Amarendra Dhar Dwivedi.
1226. Toxicity of Adsorbent Treated Tannery Effluent on Biochemical Quality of African Catfish. JATAU- **Emeagha**, G. E. Ladidi, Bakare S. Omotola and Wade J.Wokton
1290. Photocatalytic Chromium (VI) Reduction Using Nano/Micro Structured Novel Semiconductor Materials. **Manickavachagam**

- 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 Rauji
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. PM2.5 / 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. **Yaoming 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 AlZubi**, Jarrah AlZubi, 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 Trickling 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. **Dorce 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 Javeed 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., Prytkova 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. Osubor, N. G. Idemili
- 5-3
1340. Physiological and Biochemical Effects of Sodium Fluoride (NaF) on Pisum Sativum Var AZAD P-1. **T.I.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**, Liora 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 ReachThe Nutrient Emission Targets of the

- Baltic Sea Action Plan? **U. Hirt**, J. Mahnkopf, M. Venohr, P. Kreins, C. Heidecke
- 9:15 813. Robust Modeling of Nutrient Dynamics in Large Water Bodies (Gulf of Finland). Safeyeh Soltani, and Benoît Dessirier
- 9:40 Break/Coffee
- 10:05 844. Water Quality Planning Using A Risk-Based Programming Model. Qin Xiaosheng
- 10:30 1057. Fate and Transport Modeling of PCBs in the Houston Ship Channel. **Nathan L. Howell** and Hanadi S. Rifai.
- 10:55 1059. Hydrograph, Pollutograph, and Thermograph Analysis of Deiced Highway Drainage. **David W. Ostendorf**, Erich S. Hinlein, and Camelia Rotaru
- 11:20 1173. Application of a Fully Distributed Washoff and Transport Model for a Gulf Coast Watershed. Aarin Teague
- 11:45 691. Investigation of Optimal Operation on Improved Irrigation System in Nile Delta. Ahmed M. ALY, Yoshinobu KITAMURA, Katsuyuki SHIMIZU, Taleet EL-GAMEL

Wednesday Afternoon, June 27, 2012

B7 01-17 Nanotechnology Applications (a)

Wednesday, June 27 | Raphael Ballroom B
Chair: Dr. Shu-Chi Chang (National Chung Hsing University, Taiwan)

- 1:30 666. Synthesis of V-TiO₂ nanoparticles and Application for Reduction of Cd²⁺ from Aqueous solution. Reyad A. Shawabkeh, Musab Mirgani
- 1:55 781. TiO₂-Based Photocatalytic Oxidation of VOCs: Coating to Reactor Performance and Design. Mukesh Sharma, Tarun Gupta, Suraj Agarwal and Rajesh Mohan
- 2:20 799. Protection of Stainless Steel Surfaces Against Biofilm Formation and Corrosion by Nanocomposite Coatings. Farid Ahmed*, Catherine M. Santos, Rigoberto Advincola and Debora F. Rodrigues
- 2:45 843. Photocatalytic Degradation of 17β-Estradiol under Solar Irradiation. Cheng-Ling Hu*, Wei-Fu Wang and Yung-Hsu Hsieh
- 3:10 846. Looped Carbon Capturing and Environmental Remediation: Case Study of Magnetic Polypropylene Nanocomposites. Zhanhu Guo, Jiahua Zhu, Hongbo Gu, Sowjanya B. Rapole and Suying Wei
- 3:35 Break/Coffee

B8 01-17 Nanotechnology Applications (b)

Wednesday, June 27 | Raphael Ballroom B
Chair: Dr. E. Sahle Demessie (EPA National Laboratory, USA)

- 4:00 849. Environmental Transformation of Multi-walled Carbon Nanotubes and Carbon Nano-Fiber Composites Using Thermal Analysis and Related Hyphenated Techniques. E. Sahle Demessie, Amy Zhao,
- 4:25 1025. Photocatalytic Degradation of Chlorinated Organic Compounds Using Newly-Developed Nanoporous Zinc Oxide-Laponite Composites. J. C. Joo, J. Kim and L. Campos, M. Song
- 4:50 1046. Degradation of Refractory Pollutants Using Carbon-Iron Modified Titania under Natural Sun Light. Dr. K. Palanivelu, and R. Jeevitha Raji
- 5:15 1298. Diatomaceous Earth Modified by Magnetite Nanoparticles for Contaminants Removal. **Xinchao Wei**, and F. Andrew
- 5:40 926. Application of a Microbial Inhibition Assay for Monitoring Treatment Effectiveness of Quinoline in Water Using TiO₂ Catalysis. Sui Yi Zhu, **Mingxin Huo*** and Wu Yang
511. Treatment of Oil Contaminated Waters Using Vertically Aligned Carbon Nanotube Membrane.

- Amir Abedin Maghanaki**, S. Ahmad Mirbagheri, Asghar Kazemzadeh, Hamidreza Kamalan
540. Carbamazepine Removal from Groundwater Using TiO₂/UV and Fenton Processes. **Elham Shirazi Aghchhari**, Ali Torabian, and Gholamreza Nabi-Bidhendi
965. Crop Plants Possess Potential to Generate and Release Nanoparticles of Precious Metals. Yamal, Tanuj Peddisetty,³ P. Sharmila,¹ K.S. Rao² and P. Pardha-Saradhi¹
1050. Optimization of Zirconia Nanoparticle Surface Area in Hydrothermal Synthesis under Supercritical Water Condition. A. Golzary and S. Gitipour
1133. Photocatalytic Degradation of Methylene Blue Using Newly-Developed Modified Inorganic Phosphors and Nano Zinc Oxide-Laponite Composites. **S. A Bak**, M. S. Song, J. C. Joo, J. K. Kim, L. Campos.
1190. Sb₂O₃ Nanoparticles: Growth and Morphology. **I.A.Shah**

C7 02-01 Aerosol 02-03 Transport of Pollutants 02-04 Waste Gas Control Techniques 02-09 Air Pollutant Prevention and Management

Wednesday, June 27 | Raphael Ballroom C
Chair: Dr. George Sorial (University of Cincinnati, USA)

- 1:30 1242. A Study of Live Bacterial Pathogens in Airborne Particles. Rajasekhar Balasubramanian, R. Kaushik
- 2-4
- 1:55 928. Novel Regenerable Sorbents for Mercury Retention in Energy Power Plants. Diego Ballester Fernández, **M.T. Izquierdo**, R. Juan, E. García-Díez, C. Gómez-Giménez, C. Ruiz, B. Rubio
- 2-9
- 1:20 1209. Three Interactive Texas State Regulatory Programs to Decrease Ambient Air Toxic Levels. **Susana Hildebrand**, Tara Capobianco, Michael Honeycutt, Jong-Song Lee, Darrell McCant, and Roberta L. Grant
- 2:45 1274. Modeling Evaporative VOC Emissions from Passenger Cars. **Michael Tschantz**, Heidi Davidson and
1082. Ambient Ozone in Georgia: Implications of a Stricter 8-hr Standard, 2008-2011. **André J. Butler** and Kerry Hicks. (Session 02-02)
623. Charring and Oxidative Water Soluble Organic Aerosols Released from Coke Oven. **Puja Khare**, BP Baruah
650. Effect of Variable Diffusivity and Reaction Rate on the Dispersion of Air Pollutants from an Area Source. **VP Saxena** & Bhavana Ayachit
880. Energy and Environmental Analysis of Gas Flaring in Iranian Oilfields: Ilam Province. **Amir Bagheri**
- 3:10 Break/Coffee

C8 08-01 Global Warming and its Impacts 08-02 Carbon Discharge Reduction

Wednesday, June 27 | Raphael Ballroom C
Chair: Kelly A. Burks-Copes (US Army Engineer Research and Development Center, USA)

- 3:35 703. Quantifying Climate Change and Sea Level Rise Risks to Naval Station Norfolk, Kelly A. Burks-Copes and Edmond J. Russo.
- 4:00 706. Resource Allocation in the Brassica Juncea Exposed to Elevated CO₂. Neha Sharma, Pooja Gokhale Sinha, S. D. Singh and A. K. Bhatnagar
- 4:25 1199. Climate Change Vulnerability Assessment by Outranking Methods: Heat Stress in Sydney. Fahim Nawroz Tonmoy, and **Abbas El-Zein**

- 4:50 936. Decorating Graphene Sheet with Palladium Nanoparticles for Electrochemical Reduction of Carbon Dioxide. **Guang Lu**, Hui Wang, and Zhaoyong Bian.
- 5:15 1089. Carbon Abatement Cost of China based on Co-Benefits Analysis. Zhou Wei, Mi Hong
- 5:40 1038. Impacts of Climate Change on Water Requirements of Main Crops in the Eastern Province, Saudi Arabia. . Yousef Y. Al-Dakheel and Samhan A. Addosari
647. Impact of Climate Change On Agriculture In Sub-Sahara Africa. Elemide Oyebola Adebola

D7 03-06 Landfill 03-11 Phytoremediation of Organic Pollutants

Wednesday, June 27 | Raphael Ballroom D
Chair: Dr. Ashraf Aly Hassan (EPA National Laboratory, USA)

- 1:30 821. Quantification of Water Adsorption Capacity of Biologically Active Soil and Woodchips. Sagar Chitre, Berrin Tansel
- 1:55 1125. Emission of Formaldehyde in Air and Leachate from MDF Buried in Landfills. **Min Lee**, Sung Phil Mun, Lynn Prewitt, and Hamid Borazjani, Sung Phil Mun
- 3-11
- 2:20 785. Phytoremediation of Diesel Contaminated Soil with Dracaena Reflexa and Podocarpus Polystachyus Using Organic Wastes as Supplement. **Agamuthu A**, P Pariatamby, and Dadrasnia A.
- 2:45 994. Biological Fenton's Degradation of Chlorinated Endocrine Disrupting Chemicals by Aquatic Plants. **Andre Rodrigues dos Reis***, Yukako Kyuma, Masaki Atarashi and Yutaka Sakakibara
- 3:10 1020. Phytoextraction of Polychlorinated Biphenyls (Pcbs) from Contaminated Soil by Chromolaena Odorata (L) King and Robinson. Raymond Anyasi and **Harrison Atagana**
- 3:35 Break/Coffee

D8 03-09 Waste Recycling 03-10 Radioactive Waste and Land Pollution 03-12 Polymer Waste Recycling and Management

Wednesday, June 27 | Raphael Ballroom D
Chair: Dr. Baohong Guan (Zhejiang University, China)

- 4:00 805. FGD Gypsum Utilization for Preparation of Alpha-Calcium Sulfate Hemihydrates with Solution Method. Bao Kong, Li Yang, and Baohong Guan.
- 4:25 899. Mineral Fiber Generated from Incinerator Ash Using the Thermal Plasma Technique – Constructing A Pilot Plant and Application as Fireproof Material. Sheng-Fu Yang, To-Mai Wang, Wen-Cheng Lee, Kin-Seng Sun and Chin-Ching Tzeng
- 4:50 902. Comparative Study of Concrete Mixes by Replacing Natural Aggregates with Slag Aggregates. Arun Pophale, and Mohammed. Nadeem
- 5:15 1137. Development of A Methodology To Transpose Commercial Products to Materials. **Lorena Fortuna**, david hirschler, Vasil Diyamandoglu
- 3-12
- 5:40 1176. Use of a Cardboard Recycling Facility's Mixed Plastic Waste: Characterization of Initial and Wood-Amended Properties. **Tova Sardot**, Armando G. McDonald, Garon Smith,
1188. Recycling of Styrofoam Waste: Synthesis of Pheny thiosemicarbazone Surface (PTS). Ali Nawaz Siyal
583. Crushed Concrete Waste Stabilized Reclaimed Asphalt Pavements as Highway Pavement Materials. Edeh, Joseph Ejelikwu, and Arigi Abraham S.D., Eberemu, Adrian Oshioname

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
Chairs: Dr. Dongxing Yuan (Xiamen University, China),
Dr. E. Sahle-Demessie (USEPA, 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-Chmical 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 Ghezelozan-Sefirdrud Basin. **Keyvan Kimiaie**, Abdolrahim Salavitabar
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. T. 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 Laboratoty, 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/SaaleaAnd Leipzig (Germany). Frido Reinstorf, **Gerhard Strauch**², **Mario Schirmer**³
- 5:40 1174. Studyingand Comparing Different Types Ofleaching Modeles. Forough Allahyari Pour, Ebrahim Pazira, Gary Sands, Abbass 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 Gavashelishvili, 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 Sizirici 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 Warrier**, 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 Kivılcımdan 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 LNL₃ 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 Renovation Process with Treatment of Residual (ABRS). **Akshoy Kumar Chakraborty**
905. A Comparative Study for the Adsorption of Trichloroethylene in the Presence of TiO₂

- Nanoparticles under Two Scenarios. **Hafiz Salih**,² George A. Sorial,¹ Craig L. Patterson
1066. Health Risk Assessment from Uranium Measurements in Drinking Water. **Komal Badhan**, Rohit Mehra, R.G.Sonkawade
1067. Development of PCR protocol for detection of Escherichia coli in drinking water. **Jawairia Imtiaz**, Imran Hashmi, Ishtiaq A. Qazi and Muhammad Arshad
1100. An Economic and Environmental Valuation of Drinking Water Usage in India. **S. Chinnammai**
1217. Drinking Tap or Bottled Water? **Walaa Hazzah**, Asmaa Rageh, Aleya Abbass

C9

04-1 Ecosystem Assessment (a)*

Thursday, June 28 | Raphael Ballroom C
Chair: Dr. Prem Kumari Gupta (Indira Gandhi National College, India)

- 8:00 967. Urban Ecosystems are Amalgamations of Eco-Friendly & Adverse Facades: Case Study, India. Prem Kumari Gupta
- 8:25 572. Role of Organic Materials in Desert Greenification to Improve the Arid Environment. Ali A. AlJaloud and Ghulam Hussain
- 8:50 629. A Gap and Delphi Analysis of Small Businesses and Environmental Assistance Programs. Terry L. Polen,
- 9:15 659. Proximity to Airports and Cancer Incidences. S. N. Senkayi, B. Glenn, T. Bateson, M. Sattler, V. Chen
- 9:40 681. Assessment of Agricultural Ecosystem Services via Economic and Spatial Simulations. Yenlan Liu, **Jun-Wen Hsiao**
514. Measurement and Estimation of Forest Water Retention Capacity along The Forest Transect. **Xuyong Li**, Fei Mo and Xiaoxue Wang.
573. Screening of Salt Tolerant Plants for Promoting Greenery in Saudi Arabia. Ali A.AlJaloud, Ghulam Hassain
596. Holistic Approach as A Necessary Condition of Urban Planning. Natalya Shakaryan, Karen Berberyan, M.A.
601. Ecological evaluation of the Voghchi and Meghri Rivers by Hydrochemical and Hydrobiological Parameters. Gevorgyan G. A., Danielyan A. A., Grigoryan K. V., Minasyan S. H.
625. Comparison of Damage Caused to the Forest by Pit and Chain Sawing. Nambasa Hawah
632. Structure, Diversity, Carbon Stocks and Component Management of Trees in Parkland Agroforestry Practices in the Central Rift Valley of Ethiopia. Worku Belayhun
643. Crop Yield of **Phaseolus Vulgaris** as Affected by Amelioration of Microclimate through Intercropping. Chamandeep Singh, and Devender Singh Jakhra
645. The Impact Structure of Leboudi and the 1930 Nkol Nyara Catenae. *B. Njom; M. Abossolo; P. Moussango Ibohn; S.P. Mbog Bassong; J.B. Onana.
660. Environmental Risk Management of Kish International Airport Using Topsis, Entropy, Ahp and Conditional Probability. Mohammad Haghollahi,
698. Assessment of Possible Impact of Industrial Activities and the Use of Agrochemicals on the Levels of Toxic Chemicals in the Natural Environment, **El-Mukhtar A. Belgasem** and Ramadan I. Damja
699. El-Mukhtar A. Belgasem and Ramadan I. Damja. Pesticide Residues in Medicinal Herbs of North Africa. Ramadan I. damja and EL Mukhtar A. Belgasem

* Other reference numbers within the Session 04-01 can also replace the vacancy at Session 04-01 A.

10:05 Break/Coffee

C10

04-1 Ecosystem Assessment (b)

Thursday, June 28 | Raphael Ballroom C
Chair: Dr. Farid Benyahia (Qatar University, QATAR)

- 10:30 700. Inter-Sectoral Policy Coordination in the Forestry and Agricultural Sectors of Ghana. Yaw Amo Sarpong, Daniel K. B. Inkoom, K.A. Kocharyan, L.S. Tadevosyan, A.A. Aristakesyan, A.Z. Asatryan
- 10:55 711. Health hazards of urban metal contamination to wildlife in an arid environment. Khadiga G. Adham*^{1,2}, Nadia A. Al-Eisa¹, Manal H. Farhood¹
- 11:20 759. Ecotoxicological Risk Assessment of Three Insecticides Using An Epigeic Earthworm. **Anilava Kaviraj**, Rupa Dasgupta and Partha Pratim Chakravorty
- 11:45 817. An Investigation into Crude Oil Evaporation from Arid Soils for Oil Spills Remediation. Farid Benyahia

717. Histopathological Effects of Heavy Metals in Pampus Arjenteus and Parastromateus Niger. Reza Khoshnood. Zahra Khoshnood.
726. Adverse Effects of Ocean Acidification on Marine Life. Zahra Khoshnood. Reza Khoshnood.
797. An Analysis of the Ecological Health Considering Fragmentation as a Disturbance Indicator. Saeideh Rasouli

* Other reference numbers within the Session 04-01 can also replace the vacancy at Session 04-01 B.

D9

12-01 GIS for Environmental Assessment 12-02 Data Management and Statistics 12-03 Environmental Remote Sensing Applications

Thursday, June 28 | Raphael Ballroom D
Chair: Dr. Amina Rangoonwala (National Wetland Research Center, USA)

- 8:00 1216. Protected Areas in a Dynamic Forest Landscape: A Large Scale Connectivity Analysis. **Arvid Bergsten**, and Örjan Bodin, Frauke Ecke
- 8:25 1155. Desertification Assessment in North Sinai Using Remote Sensing and GIS. **Elsayed Said Mohamed**, Belal A.A., Saleh A.M.
- 8:50 941. Quantification of Percent Shrub Canopy with Landsat Across the Conterminous United States. **George Xian**, Collin Homer, Debbie Meyer, Brain Granneman, Jon Dewitz.
- 9:15 1297. Coastal Resource Monitoring With Radar and Optical Satellite Sensor Data. **Amina Rangoonwala***, Elijah Ramsey III, Yukihiko Suzuoki and Terri Bannister
566. Geoinformatics: A Novel Tool for Groundwater Pollution Modeling and Management – A Case Study in Palakkad District, Kerala, India. **S. Rajendran**, Subin K. Jose, R. Jayasree, R. Santhosh Kumar
570. Remote Sensing Based Approach for Ground Water Management: A Case Study. **Surendra Kumar Yadav**
607. Large Scale Mapping (1:5000 Vector & Raster) Using High Resolution Satellite Images. Ali E. Said, Hadi M. Omar Shandoul; Yekhlif Z. Yekhlif
752. Environmental Impact Assessment of Liquid Gas Pipeline by Using Map Overlay and GIS Methods. Nematollah Jafarzadeh, Marzeih Rasti, Reza Khoshnood.
974. Towards a Better Understanding of Surface Deformation in Houston, Texas. **Shuhab Khan**, Maisam Otoum, Zheng Huang, Ayca Karacay, Xu Han
1311. Biomass Loss in the Encroached Forest Areas of Western Ghats of Karnataka, India. **R.K. Somashekar**, P. Ravikumar, G.R. Pramod Kumar and B.C. Nagaraja
912. Satellite Monitoring of Snow and Ice Cover in Southern Ontario. **Elena Shcherbenko**
1194. Discussion on Relation Between Land Surface

Temperature and Building Types in Urban Area of Syzhou and Zhangjiagang. Wang Yue, and **Cheng Dan**

9:40 Break/Coffee

D10

06-1 Wetland Conservation 06-2 Wetlands for Wastewater Treatment 07-1 Assessment of Sediments 07-2 Remediation of Contaminated Sediments 09-04 Phytoremediation

Wednesday, June 27 | Raphael Ballroom D
Chairs: AL-Oud S.S. (King Saud University, Saudi Arabia); Dr. Meri Barbafieri (Institute of Ecosystem Study, Italy)

- 10:05 687. Conservation Threats Towards the Water Birds of Deepor Beel Wetland. Jyotismita Das, Hemen Deka and P.K Saikia, Hemen Deka
- 10:30 671. In situ Remediation of Contaminated Sediments – Active Capping Technology. Anna Sophia Knox
- 9-4
- 10:55 754. Enhanced Phytoremediation of Heavy-metal Contaminated Soils by Functional Endophytic Bacteria. **Liang Chen**, Sheng-lian Luo*, Chen-bin Liu, Yong Wan and Jue-liang Chen
- 11:20 1170. Do Rhizospheric Processes Link to P Nutrition Participate to Soil U Phytoavailability? **Antoine Tailliez**, and Pascale Henner, Catherine Keller
- 11:45 1246. Phytoremediation as Bioavailable Contaminant Stripping Tool: A Case Study of Hg Contaminated Soil. **Meri Barbafieri**, Giannantonio Petruzzelli, Francesca Pedron, Eliana Tassi, Virginia Giansoldati, Irene Rosellini

06-1

749. Bayesian Decision-Making Framework for Environmental Flow: Case study in Shadegan Wetland, Iran. **Sepideh Khorshid**, Ahmad Abrishamchi and Massoud Tajrishy.
916. Destruction of Traditional Rural Wetlands in Rural India Is A Widespread Phenomenon. Prem Kumari Gupta
- 06-2
657. Phyto-Technological Method for Treatment of Sewage through Constructed Wetland. B. L. Chavan, **V. P. Dhulap**
1218. An Investigation of Plants Effects on the Treatment of Nutrient Elements from the Secondary Effluent in Constructed Waste Water. Xiang Xuemin, Zhou Xiaobai, Wang Xiaokun, Zhou Jiti

07-1

1000. Spatio-Temporal and Chemical Variability of Anthropogenic Spherules from Allahabad, India. **Ambaika Niyogi*** and J.K. Pati
1250. Chromium Contamination in Sediments from Northern Kaohsiung Harbor, Taiwan. **Cheng-Di Dong**, Chih-Feng Chen, and Chiu-Wen Chen.

E9

01-02 Watershed Management 01-09 Water Quality Assessment/Management (a)

Thursday, June 28 | Salon 1
Chair: Dr. David M Oliver (University of Stirling, UK)

- 8:00 784. Understanding Farmers' Perceptions towards Water Pollution Control in the Yangtze Delta, China. **Xiaoying Yang**, Xingzhang Luo, Xingzhang Luo, Zheng Zheng

1-9

- 8:25 597. Artificial Neural Networks for Localization of Contamination Sources in Drinking Water Distribution Systems. **Diogo Costa**, Luis Melo and Fernando Martins
- 8:50 679. Evaluation of the TMDL for the East Canyon Reservoir Using Remote Sensing. David A. Fayol, **M. Brett Borup**

- 9:15 693. A New Hybrid Aerator Combining A Bubble Generator and A Surface Mechanical Aerator. Ajey Kumar Patel and Achanta Ramakrishna Rao
- 9:40 751. E. coli Burden to Land and Delivery to Water at Headwater Catchment Scales. **David M Oliver**, Louise Heathwaite, Trevor Page, Ting Zhang, Keith Beven, Gareth McShane, Heather Carter, Patrick O' Keenan & Philip M. Haygarth

10:05 Break/Coffee

E10
01-09 Water Quality Assessment/Management (b)

Thursday, June 28 | Salon 1
Chair: Dr. Mey Jurdi (American University of Beirut, Lebanon)

- 10:30 1097. Quality Assessment of the Upper Litani River Basin in Lebanon. **Mey Jurdi**, Nora Karahagopian and Khalil Kriedieh
- 10:55 1103. Sourcing Dioxin from the San Jacinto Waste Pits into Galveston Bay. **Taft Y. Tucker** and Hanadi S.Rifai. Taft Y. Tucker
- 11:20 1197. Assessing the Impact of Wastewater Expenditures on Bacterial Water Quality. **Roger Miranda**
- 11:45 634. Water Quality Surveillance in Hyderabad City. Syeda Azeem Unnisa and **S.Bhupathi Rav**

571. Sub-Watershed Based Prediction of N and P Loads from Diffuse Sources to Receiving Water. **Mustafa Sait Yazgan**, Cevdet Bicer
1088. Water Environment Protection and Ecological Rehabilitation Technology in Inland River Basins, Northwest China, **GAO Qian-zhao**, FENG Qi, HAMID-Yimit, WANG Shun-de and QIAN Ju

- 1-9
512. A Survey of Fluoride Concentration in the Surface and Ground Water of Maligoan Area of Guwahati City of Assam, India. **Angur Begum**, Aminul Ahmed

567. Water Quality Mapping of the Coastal Aquifers, Central Kerala, India – A GIS Approach. **S. Rajendran**, and R. Santhosh Kumar

592. Assessment of Future Socioeconomic Development Impacts on Water Quality: A Case Study. **Nomessi Kuma Kokutse**, Pham Thi Thu Ha, Sophie Duchesne and Jean-Pierre Villeneuve

620. Impact of Arsenic contaminated ground water in Bhagalpur, India. **Ashok Kumar Ghosh**, Nupur Bose.

634. Water Quality Surveillance in Hyderabad City. Syeda Azeem Unnisa and **S.Bhupathi Rav**

695. Mapping and Modeling Chlorophyll-a Concentrations in Utah Lake Using Landsat-7 ETM+ Imagery. **Victor Nii Afum Narteh**, M. Brett Borup

1072. The Role of Water Quality Index - Case Study in Iran. Farzam Babaei Semiroini, and Zohreh Ghaemi

1076. Greywater Reuse in High Rise Residential Buildings: A Case of Patna City. Nityanand Singh Maurya, Ran Vijay Singh

1121. A Study on Spatial Distribution of Water Quality and the Behavior of Do Concentration in Tidal Area of Urban Rivers. **Shunya Kojima**, R. Asami¹, K. Sakurai¹, T. Yamada

1122. A Study on Water Quality in Urban Rivers. **Kazuki Sakurai**, R. Asami¹, S. Kojima¹, T. Yamada

1219. Coliphage As Indicator of Water Quality in Alexandria. **Hoda Ahmed El Shamy**, Aleya Abbass, Mona Hashish, Ola Essa

1256. Monitoring the Effects of Water Pollution on Freshwater Fish in Mine Pit Lakes. Jatau-Emeagha, G. E. Ladidi, and Wade J.Wokton

F9/F10
15-01 Environmental Quality and Planning
15-03 Environmental Policy and Management

Thursday, June 28 | Salon 3

Chair: Dr. S. Somashekar (S. J. College of Engineering, India)

- 8:00 852. Spatial and Temporal Patterns of Road Traffic Noise Pollution in Riyadh, Saudi Arabia. A. O. Al-Jasser, Saad M. Mogren

- 8:25 1058. Vulnerability to Storm Surge of the Houston Ship Channel in Texas. Daniel W. Bursleson and Hanadi S. Rifai

- 8:50 1060. Green Building- for Sustainable Development. C.V.R.Vaishnavi

- 9:15 1241. The Empathy, Understanding, Empowerment (EUE) Model of Engagement in Environmental Decision Making. **Ducker, Daniel**, and Kepa Morgan

9:40 Break/Coffee

- 10:05 1160. Partnership Approach in Environmental Management: A Strategy to Solving Urban Problems in Lafia Town, Nigeria. Bashayi Obadiah and Barau Daniel

- 10:25 1237. A Missed Dimension of the Neglected Pillar: The Case of Social Sustainability. **Tina Pujara**

- 10:50 1288. Measurement of Sustainable Development with Reference to A Backward Mining Region, India. **Basanth Kommadth** and **Binayak Rath**

- 11:15 1055. Assessment of Cleaner Production Options for Electrolytic Manganese Metal Industry of China. **ZhiGang Dan**, Xiuling Yu and Fan Wang

908. Environmental Planning and Sustainable Development of Azerbaijan Cities. **Emir Huseynov**, Akif Aliyev

Thursday Afternoon, June 28, 2012

B11
01-11 Sludge Treatment

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

- 1:30 745. Degradation and Microbial Profiles in Single-Stage and 2-Phase CSTR Sludge Digestion. **Guo ChengHong**, Maspolim Y., Xiao K K., Zhou Y, Ng W J., Zhai B, and Yeo K C

- 1:55 834. Toxicity Formation and Distribution in Activated Sludge Treating Bisphenol A (BPA) Wastewater. Xiurong Chen*, Na Yang, Wenlu Xu, Yuanyuan Hu

- 2:20 1130. Utilization of Untreated Sewage Sludge for the Production of Sustainable Construction Materials. **Alaa A Hamood** and Jamal Khatib.

- 2:45 1151. Removal of Acid-Gases from Digested Sludge Using Microbubble Generated by Fluidic Oscillation. **Mahmood K. H. Al-Mashhadani**, Stephen J. Wilkinson, and William B Zimmerman

3:10 Break/Coffee

1231. Mechanisms of Utilizing Cationic Surface-Active Agent in the Dehydration of Excess Sludge. **Yi Xing***, Chen Hong, Fan Zhao, Wei Chen

1080. The Effect of Natural Substances in Upgrading of the Sludge Drying Bed's Performance. Elmira Tarverdizadeh, Ali Torabian and Aliakbar Azimi

1263. Combining Chloride Salts and Thermal Treatment to Improve Sludge Settability and Dewaterability. **Jie Yu**, and Baohong Guan

644. Excess Sludge Minimization Using Ultrasonic Waves in Conventional Activated Sludge Pilot Plant. Arezoo Nejaei and Shaghayegh Sadr

B12
01-10 Nitrogen-Phosphorus Wastewater Treatment (b)

Thursday, June 28 | Raphael Ballroom B

Chair: Dr. George NKeng (Ecole Nationale Supérieure des Travaux Publics Yaoundé Cameroun, Cameroon)

- 3:35 533. The Microbe Community and Diversity on Anammox Bioreactor. Qin Yujie, and Zhou Shaoqin

- 4:00 842. Optimization of Ammonia-N Oxidation by Nitrosomonas Europaea Using Experiment Design. Bao yingling, Ye Zhengfang

- 4:25 876. The Effects of Silver Ions on Enhanced Biological Phosphorous Removal. Hong Chen, and Yinguang Chen

- 4:50 989. Phosphorus Removal and Recovery from Wastewater by Electrochemical Process. **Hiroaki Yoshino**, and Yutaka Sakakibara

- 5:15 1144. Aged Refuse Bioreactor - A Novel Process on Nitrogen Removal of Mature Landfill Leachate. Bing, **Xie**

- 5:40 838. 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 NNL₃ and its Partial Nitrification Characterization. **Zhengkui Li**, Ling Zhao, Tao Zhou, Ningmei Wu

1016. Biodegradation Efficiency of Bacterial Isolates from Wastes of Pesticide Company (case study). Ayman H. Mansee¹ and Manal R. Montasser²

(Some presentations in the waiting list can be also found at the session "01-10 Nitrogen-Phosphorus Wastewater Treatment B")

C11/C12
04-01 Ecosystem Assessment C

Thursday, June 28 | Raphael Ballroom C
Chair: Dr. Guangzhi Sun (James Cook University, Australia)

- 1:30 782. Losses of Ecosystem Services Value in Taihu Watershed from 1979 to 2010. Hui Zhang, Yan-Song Wang, Qiao Wang

- 1:55 913. The Concept of Ecosystem Manipulation: What Is It, and How Does It Work in Bioremediation? **Guangzhi Sun**, and Kirsten Heimann

- 2:20 938. Systematic Conservation Pattern for the Ecosystem in QinBa Region, China. **Ya-nan Tian**, Hongqi Wang, Jingwen Sun, and Zeqing Hou.

- 2:55 967. Urban Ecosystems are Amalgamations of Eco-Friendly & Adverse Facades: Case Study, India. Prem Kumari

- 3:10 970. Mapping and Analyzing Tradeoffs between Ecosystem Services under Landscape Change. **Tao Huang** and Yu-Pin Lin

3:35 Break/Coffee

- 4:00 1042. Diversity of Aquatic Insects of Urban Lake During Restoration, Gulbarga District, Karnataka. **K. Vijaykumar**

- 4:25 1064. Strategic Environmental Assessment of Zero Waste to Landfill in Thai Paper Mill. **Chotiwan Seangprasertkij**, Yutaka Sakakibara and Takehiko Murayama

- 4:50 1346. Acid Mine Water Quality – The Cause of Deterioration Observed in Field Concrete. **Firehiwot Azene**, Stephen O. Ekolu, Jacob Ikotun

- 5:15 996. Evaluation of Greenhouse Gas Emission Potential of A Eutrophic Lake. **Selim L. Sanin**, and Ezgi Ogun and Aysegul Aksoy

- 5:40 1156. Integrated Assessment for the Health of the Mississippi Canyon, N. Gulf of Mexico. Y. S. Soliman, T. L. Wade, and G. T. Rowe

797. An Analysis of the Ecological Health Considering Fragmentation as a Disturbance Indicator. Saeideh Rasouli

975. Enhanced Evaporation of Brine Springs and Inland Desalination Concentrates. **Sami Al-Haddad**, W. Shane Walker, and John Walton
1041. Impact of Fungal Endophyte AR29 Infection in Diploid Perennial Ryegrass under Water Stress. M Hasinur Rahman, Shamima Sabreen, Atsushi Okubo, Wayne R and K Rafiq Islam
1145. Lessons from Contemporary Urban Growth Theories: An Approach Towards Achieving An Integrated Sustainable Urban Development. Jayprakash Chadchan
1164. Effect of Soil Solarization and Some Nematicides on Controlling the Root-Knot Nematodes *Meloidogyne incognita* Infected Grapes Seedlings. Asmaa, A. Mokbel, El-Saedy
1172. Assemblage Structure and Ecological Determinants of Termites' Foraging Intensity in Semi-Arid Ecosystems. Mugerwa Swidiq

(Some presentations in the waiting list are also included at the sessions on June 29)

D11/D12

09-01 Metal Distribution 09-02 Metal Removal and Remediation 09-03 Speciation, Bioavailability and Accumulation

Thursday, June 28 | Raphael Ballroom D
Chair: Obulisamy Parthiba Karthikeyan (National University of Singapore, Singapore)

- 1:30 769. Enhancement of Heavy Metals Movement by Capillary Forces by Addition of Chelate Solution in Polluted Soil. **AL-Oud S.S.**
- 1:55 831. Solidification, Immobilization and Separation of Heavy Metals in Soil with Nano-Fe/Ca/CaO Dispersion Mixtures. Srinivasa Reddy Mallampati, Yoshiharu Mitoma, Tetsuji Okuda, Shogo Sakita, and Mitsunori Kakeda
- 2:20 934. Microwave-Assisted Pre-Treatment of Black Shale for Removal of Carbonaceous Matter. **Obulisamy Parthiba Karthikeyan**, Raghu Betha, A. Rajasekar, S. Manivannan and R. Balasubramaniam
- 2:45 1087. Migration Behavior of Arsenic and Copper during Quick Electrokinetic Remediation Process. Hafiz Ahmad, Danuta Leszczynska, Korhan Adalier, and Mario Oyanader.
- 3:10 768. Speciation of Heavy Metals in the Sediments of Former Tin Mining Catchment, **Muhammad Aqeel Ashraf**, Mohd. Jamil Maah and Ismail Yusoff
714. Assessment of Heavy Metals Pollution in Iranian Harbours (The Persian Gulf Coast). Reza Khoshnood, Zahra Khoshnood.
892. Using Supercritical Fluid with Dispersant to Prepare Zero-valent Iron for Decontamination. Min-Hsin Liu*, **Shi-Han Tang** and Sheng-Yao Yang
- 4:35 Break/Coffee
- 3:00 1259. Removal of Chromium (III) and Lead (II) by Using *Yarrowia Lipolytica*: Yeast-Metal Interactions. **Ashok Bankar**, Soumitra Marathe, Ameeta Kumar and Smita Zinjarde, Balu Kapadnis, Mark Winey
- 4:25 1061. Arsenic Intake from Water, Rice and Vegetables in Bangladesh. **Mohammad Mahmudur Rahman*** and Ravi Naidu
- 4:50 969. Protection by *Clerodendrum Phlomidis* against Manganese Toxicity. Ram Prakash
- 5:15 822. Metal Toxicity in Terrestrial Organisms in an Ecologically Sensitive Island. Govindasamy Agoramoorthy, and Minna J Hsu
- 5:40 944. Plants Generate Nanoparticles to Detoxify Auric and Excess Iron Ions. P. Pardha-Saradhi, Yamal,² Tanuj Peddisetty,³ P. Sharmila,¹ Jyoti⁴, Rajamani Nagarajan⁴ and K.S. Rao²
536. Heavy Metal Accumulation by Bacteria Under Various Environmental Conditions. Fouzia Tanveer and **Azra Yasmin**

919. Heavy Metal Bioaccumulation of Rice upon Exposure to Single and Combined Contamination. Yizong Huang, **Ying Hu** and Yunxia Liu
969. Protection by *Clerodendrum Phlomidis* against Manganese Toxicity. Ram Prakash
1324. Copper and pH Dynamics in the Bulk Soil and Rhizosphere Soil. **Prabha K Padmavathamma**, Loretta Li, Mohammed Abdul Mohsen Ali Salem

E11

01-05 Non-point Sources 01-06 Wastewater Discharge Management

Thursday, June 28 | Salon 1
Chair: Dr. Peter E. Black (SUNY ESF, USA)

- 1:30 513. Street Dust and Its Potential Heavy Metal Contamination to Runoff. **Xuyong Li**, Hongtao Zhao and Xiaoyan He
- 1:55 1012. Evaluation of Best Sampling Time for Measurement of Oil and Grease. **Zulkifli Yusop** and Chow Ming Fai
- 1-6
- 2:20 507. Industrial Wastewater Management in Vietnam - Current Status and Solutions. **Le Tuyet Minh**, Nguyen Phuong Quy and Tan Soon Keat
- 2:45 824. Fluorescence Fingerprint Properties of the Wastewater of an Industrial Park. **C.B. XIE**, J.WU*, Z.P.CAO, D.D. YIN
- 3:10 942. The Effects of Water TMS and Future Directions in Korea. **ByungKook Lee**, S.H. Kim, TaeJoo Park
- 3:35 1083. Onsite Wastewater Treatment System Failure in the Dickinson Bayou Watershed. **Aaron Forbis-Stokes**, Clyde Munster, Bryan Boulanger, and Binayak Mohanty
- 4:00 Break/Coffee

E12

01-07 In-Situ Measurement and Monitoring

Thursday, June 28 | Salon 1
Chair: Dr. Arun D. Pophale (Visvesvaraya National Institute of Technology, India)

- 4:25 523. Real Time Monitoring of a Sequencing Batch Reactor with In-Situ NIR Spectroscopy. **Nidia Dana Lourenço**, Cláudio Fernandes de Almeida, João Almeida Lopes,
- 4:50 1078. A Microfluidic Platform for Multi-Parametric Water Quality Analysis. **John Cleary**, Damien Maher, Deirdre Cogan, and Dermot Diamond
- 5:15 1113. Portable Lab-On-A-Disc Wireless System for In-Situ Multiparameter Water Quality Analysis. **Monika Czugała**,
- 5:40 1326. Azo Dye Binding Interactions with Freshwater and Treated Wastewater Dissolved Organic Matter. **Tanveer Ahmed**, Keiichi Ohta and Masahiro Maruo
910. Development of Novel instrument for In-situ Monitoring of Micro-pollutants in Water Environment. **Hanchang SHI**, Feng LONG and Baodong SONG
939. Dissemination of Decentralized Wastewater Treatment System in Rural China: Opportunities and Challenges. Shikun Cheng, **Zifu Li**, Heinz-Peter Mang

F11

15-02 Energy-related Environmental Problems 16-04 Bio-fuels (a)

Thursday, June 28 | Salon 3
Chair: Mr. Morten Moeller Klausen (Urban & Industry Department, Denmark)

- 15-2
- 1:30 598. Peak Oil: Knowledge, Attitudes, and Programming Activities in Public Health. **Sammi L. Tuckerman**, **J. Mac Crawford**, Robyn S. Wilson, W. Berry Lyons
- 1:55 943. Modeling Adoption of Energy Efficient Devices in Indian Urban Households. **S. Somashekar**, N. Nagesha. S. Somashekar
- 2:20 1034. Learning from Vernacular Architecture of Cities in Iran to Save Energy. **Shahryar Shaghghi**, Eshagh Rasuli S., Hamidreza Zamani
- 16-4
- 2:45 520. Water Use in Cellulosic Ethanol Production, **Morten Moeller Klausen** and Gert Holm Kristensen
- 3:10 544. A Feasibility Study of Making Biodiesel from Trap Grease. Qingshi Tu, Jingjing Wang, **Mingming Lu**, Ming Chai, Bluegrass Biodiesel, Ting Lu
- 3:35 Break/Coffee

F12

16-04 Bio-fuels (b)

Thursday, June 28 | Salon 3
Chair: Dr. Rajasekhar Balasubramaniam, (National University of Singapore, Singapore)

- 4:00 638. Availability and Production Costs of Pine-Based Biomass as a Feedstock for Bioethanol Production. Gustavo Perez-Verdin, Donald L. Grebner, and Jose Navar-Chaidez
- 4:25 841. Performance and Microbial Profiles of 2-Phase Anaerobic Digestion of Food Waste Leachate. Huang Wenhui, Wang Z Y^{1,2}, Zhou Y¹ and Ng W J
- 4:50 1105. Carbon Footprint Analysis for Algae Grown in a Photobioreactor. Jennifer Matczak, Stephen Duda, Cody Edley, William Riddell, Tobey Kinkaid, (AlgaeDyne)
- 5:15 783. Promoting *Jatropha* Plantation: Opportunities for Biofuel, for Soil Conservation and Water Management. Tessema Bekele
- 5:40 1171. Enhancement of Lipid Accumulation in *Dunaliella Salina* in Response to CO₂ Aeration for Biodiesel Production. Hanaa H. Abd El Baky, Gamal S. El-Baroty and Abderrahim Bouaid
807. Intensification of Biogas Generation by Ultrasonic Treatment of Agro- Waste. Chandrika Samal and Dibakar Panda
1159. Methane Production from Mesophilic Co-Digestion of Sugar-Beet Processing Wastewater and Beet-Pulp. **Goksel N. Demirel**
1275. Anaerobic Co-digestion of Municipal Biomass Waste in China: Effect of Organic Loading Rate. **Xiao Liu**, Wei Wang, Lulu Chen, Shuang Hu, Lijing Zhang

Friday Morning, June 29, 2012

B13/B14 (D13/D14)**01-13 Industrial Wastewater Biotreatment**

Friday, July 29 | Room: Raphael Ballroom D
Chair: Dr. George A. Sorial (University of Cincinnati, USA)

- 8:00 608. Assessing Acute Toxicity of Black Liquor Generated from Refined Cotton Production. Xu Zhao, Quanlin Zhao, Zhengfang Ye
- 8:25 712. Phenanthrene Biodegradation by Isolated Strains: Kinetic Studies. M. Brinda Lakshmi and Manicakm Velan
- 8:50 767. Assessment of Phytoextraction Efficiency of Naturally Grown Plant Species in the Former Tin Mining Catchment, **Muhammad Aqeel Ashraf**, Mohd. Jamil Maah and Ismail Yusoff
- 9:15 835. Two Phase Biodegradation of Phenol in a Hollow Fiber Membrane Bioreactor. Prashant Praveen and Kai-Chee Loh.

9:40 Break/Coffee

- 10:05 924. Biosorption of Cu, Zn and Ni by Growing *Aspergillus* sp. in Cheese Whey. Reena Pundir and **M. G. Dastidar**
- 10:30 1325. Linking Nutrients, Metals and Productivity in Gulf of Mannar Mangrove Islands, India. **Nabeel M. Alikunhi** and Kathiresan Kandasamy
766. Decentralized Domestic Waste and Waste Water Treatment through Vermifiltration. Ankur Rajpal, Renu Bhargava, and **A. K. Chopra**
862. Pretreatment, Enzymatic Hydrolysis and Bioethanol Production Using Concentrated Cotton Stalk Hydrolyzate. Narsi R. Bishnoi
931. The Design Research for the Advanced Treatment Of Coal Mining Water In GUQiao Mine. **PAN Lingxiao**, and LIU Hanhu
1040. Degradation of Polycyclic Aromatic Hydrocarbons in Crude Oil Contaminated Saline Water by a Halotolerant Bacterial Consortium. Namasiyayam Vasudevan, P. Aulazhagan, King Abdulaziz
1182. A New Bioaugmentation Method in Bio-fluidized Bed to Enhance the Removal of Recalcitrant Organic Compounds in Industrial Coke Plant Wastewater, **S.Q. Li**, F. Zhu, Y.J. Hao, G.H. Xiong, D.Q. Cang, G.H.Xiong

C13**10-01 Characterization of Organic Pollutants
10-02 Degradation of Persistent Organic Pollutants**

Wednesday, June 28 | Raphael Ballroom C
Chair: Dr. E. Sahle Demessie (EPA National Laboratory, USA)

- 8:00 806. The Role of Methanogens in Degradation of Chlorophenols under Acidic Condition. **JIANG Xie**, ZHOU Y. and NG W.J.
- 8:25 859. Enhanced Biodegradation of Endosulfan and its Metabolite-Endosulfate by a Biosurfactant Producing Bacterium. Greeshma Odukkathil and Namasiyayam Vasudevan
- 8:50 865. Degradation of Carbon Tetrachloride Using the Modified Persulfate Oxidation. **Yong-jae Kwon**, Moon-ho Kang, Su-jin Bang, Sil-hee Hong, and Sung-ho Kong.
- 9:15 945. Ozonation of Tertiary Treated Municipal Wastewater for the Removal of Persistent Organic Pollutants. Results and Toxicological Evaluation. **Norbert Kreuzinger** and Heidemarie Schaar
- 9:40 935. Toxicity of Nonylphenol Compounds in Anaerobic Digesters. Hande Bozkurt and **F. Dilek Sanin**
1128. Kinetics on Ofloxacin Oxidation by Potassium Permanganate. **Yongpeng Xu**, Xiaohui Wan,

and Zai-gang Wang

10:05 Break/Coffee (10 min only)

C14**04-1 Ecosystem Assessment (d)
04-2 Nutrients and Functions of Ecosystems
04-03 Restoration of Ecosystems
04-04 Urban Ecosystems**

Thursday, June 28 | Raphael Ballroom C
Chair: Shirley Rosenzweig (University of Cincinnati, USA)

- 10:15 1347. Interventions to Better Manage the Carbon Stocks in Australian Melaleuca Forests. **Da B. Tran**, Paul Dargusch, Patrick Moss, John Herbohn
- 10:40 573. Screening of Salt Tolerant Plants for Promoting Greenery in Saudi Arabia. Ali A.ALjaloud, Ghulam Hassain
- 11:05 867. Cost Effective Environmental Magnetic Field Mitigation by Active Loops near Power Lines, **Hussein Anis**, and Ayman Aboud, **Hussein Anis***
713. Industrial Ecology for Local Productive Arrangements. **Adriana Valéla Saraceni**, and Pedro Paulo de Andrade Júnior
736. Non-Indigenous Ascidiaceans *Phallusia Nigra* Savigny, 1816 (Tunicata: Ascidiacea) in Persian Gulf Coast of Iran. **Aida khazaali**, Maryam Ehsanpour, Majid Afkhami

E13/E14**13-01 Environmental Analysis
13-02 Field Measurement Technologies
13-03 New Method Applications
13-04 Environmental Monitoring**

Friday, July 29 | Room: Salon 1
Chair: Dr. Pradeep Kumar (Banaras Hindu University, India)

- 13-3
- 8:00 683. Overview and Validation of the Training Range Environmental Evaluation Characterization System. **Mark S. Dortch** and Billy E. Johnson
- 8:25 998. Rapid Lysis of Bacterial Cells in a Microfluidic Chip, Tsung-Ju Yang and **Shu-Chi Chang**,
- 8:50 1244. Development of Molecular Imprinting Polymers for Environmental Phthalate Esters Analysis. **Ta-Chang Lin** and Yu-Yin Liu
- 13-4
- 9:15 874. Assessment of Heavy Metals in Soils in the Surroundings of A Coal-Fired Power Plant. M.L. Dinis, A. Fiúza, J. Góis, J.S. de Carvalho, A.C.M. Castro
- 9:40 Break/Coffee
- 10:05 1135. When One Groundwater Monitoring Well is Enough. Neil S. Shifrin, and **Aaron C. Chow**
- 10:30 1150. Development of Database for Marine Oil Pollution Study, **Nguyen Kim Anh**, Nguyen Dinh Duong. Nguyen Kim Anh
- 10:55 1102. Remote Sensing of On-Road Motor Vehicle Emissions by Doas and Tdlas Techniques. **Jianguo Liu**, Wenqing Liu, Pinhua Xie, Yujun Zhang and Ruiteng Kan
947. Comparing Economic-Environmental Efficiency Analysis in Electricity Generation in Iran. **Foroogh Shadman Lahiji**, and Khalid Abdul Rahim
868. Fate and Transport of Tetracyclines in Selected Swine Farms in China. **Min Qiao**, Bing Zhang & Cai Zhang, Wangda Chen, Jianqiang Su

F13**14-1 Society and the Environment
14-2 Environmental Ethics and Laws
14-3 Environmental Education**

Thursday, June 29 | Salon 3
Chair: Dr. Robin Saha (University of Montana, USA)

- 8:00 584. A Socio-demographic Analysis of Biomass Energy and Waste Incinerator Facility Locations in the United States. **Robin Saha**, Mike Ewall, Glenn S. Johnson, and Robert D. Bullard.
- 8:25 1039. Protected Area and Livelihoods of Ethnic Community: Experience from Bangladesh. **Kazi Kamrul Islam** and Noriko Sato
- 8:50 1079. Regulating the Use of Plastic Packaging: A Case Study in the Philippines. **Raquel Rosario A. Reyes** and Emelita C. Aguinaldo
- 14-3
- 9:15 565. Study of the Role of Non-governmental Organizations in Non-governmental Environmental Educations in Iran. Seyyed Mohammad Shobeiri
- 9:40 1247. Study of the Potential of Political Measures on Citizen Participation in Waste Recycling and Reduction. **Yasuhiro MATSUI** and Haruka ITOH
605. Communicating Climate Change in Africa through the Theatre for Development Process. Ubong Nda and Faith U. Ekong
1333. Redefining Affordable Housing through Sustainable Practices. **OLUSOLA Oladotun. M.**, Harrison Deborah.
1021. Utilizing Drama in the Teaching of Environmental Issues to Primary School Pupils. Ubong S. Nda
531. Investigation of Environmental Attitudes among Elementary School Teachers : Case Study in Iran-Ahvaz, **Forouzan Farrokhan**, Mohammad Hosseinpour and Atousa Soleimani
631. The Role of Natural Light on Learning, Speaking and Writing and Health on Pupils in Primary School. (Case study in Glasgow (Scotland) and Isfahan (Iran)). Mohammadreza Nilfroushan¹, Raid Hanna², Hassan Sadeghi Naeini³/Farhang Mozaffar⁴
1168. Community Participation to Disaster Mitigation and Sustainable Management - A Case Study of Pakistan. **Yameen Memon**, Naureen Nazar Soomro and Aashiq Jhatial
1255. Creating and Implementing Environmental Education Curricula that Encourages Creativity in Rural India. **Tara Adishesan**

10:05 Break/Coffee (10 min only)

F14**16-01 Water Energy Nexus
16-02 Wind Energy
16-03 Solar Energy
16-05 Special Energy Development**

Thursday, June 27 | Salon 3
Chair: Dr. Serdar Yaman (Istanbul Technical University, Turkey)

- 10:15 1101. Effects of Biofuel Productions in the Ohio River Basin's Water Resources and Quality. **Yonas Demissie**, Eugene Yan, and May Wu
- 10:40 1283. Photo Activity of Nickel- Cuprous-Oxide-on-Copper Electrode for Hydrogen Generation. **Sangeeta**, Ashok N. Bhaskarwar
- 11:05 848. Production of Fuel Pellets from Carbonized Biomass and Lignite. **Serdar Yaman**, Hanzade Haykiri-Acma, Fulya Ulu
1126. Enhanced Evaporation of Brine Springs and Inland Desalination Concentrates. **Sami Al-Haddad**, Tejaswini Anand, W. Shane Walker, and John Walton
1229. Preliminary Design: Combined Solar CSP/Gas Driven Water Desalination for GCC and MENA

Countries. **Youssef Ahmed Elgendy**, M. A. Darwish

16-2/16-3

1235. Dust Affects the Design of Solar Collectors Operating in GCC and MENA Countries. **Youssef Ahmed Elgendy**

1267. Design of a Solar Energy Utilizing Water Purifier for the Rural Areas of Bangladesh, **Husnain-Al-Bustam**, Md. Zakaria Mahbub, Prof. Dr. Md. Nurul Absar Chowdhury

1320. Experimental Study on Solar Flat Plate Collector for Losses under Different Heat Input and Wind

Velocity. **M. K. Bhatt**, B. M. Sutaria, S.N.Gaderia, S.A.Channiwala

1321. Importance of Carbon-Based Solar Cell for Clean Energy and Environment. **Dilip Chandra Ghimire**, Sudip Adhikari, Heideo Uchida and Masayoshi Umeno

1327. Combined Solar Power and Cooling System Using an Organic Cycle. **Adel Akair**, Tony Roskilly and Yaodong Wang

1334. Catalytic Transformation of Biomass to Biofuels and Chemicals. **Basudeb Saha**

1268. Natural Gas Crisis and its Solution through Renewable Energy in Bangladesh, **Md. Zakaria**

Mahbub Husnain-Al-Bustam, Md. Nurul Absar Chowdhury

POSTER SESSIONS

POSTER SESSION I

Atrium Lobby

7:00 p.m. – 9:00 p.m.

Tuesday, June 26, 2012

01 Water Pollution and Water Quality Control

01-02 Watershed Management

1. 1304. Management Multi-Objectives of Water Functional Zone in China. **Lingling Bin**, Chengzhong Pan, Xinyi Xu, Aizhong Ding

01-03 Water Resources and Assessment

1047. The U.S. Flood Control Program at 75. **Peter E. Black**
1225. Ulaanbaatar, Mongolia – Sustainability for the Fast Development with Limited Water Resources? **Naranchimeg Batsaikhan**, and Nam C. Woo
1233. Analysis of China's Construction Water Shortage Based on Fuzzy Matter-Element Model. **Yuan Liang**, Xinyi Xu, Bo Pang and Jun Gao

01-04 Groundwater

1104. Bioremediation of Pentachlorophenol Contaminated Groundwater Using Bacterial Communities. **Vaibhav V. Joshi**, M. Lynn Prewitt, H. Borazjani, Ken Willeford, D
1266. Synthesis of Oily Nanoscale Zero Valent Irons and their Dechlorination Reactivity in the Nonaqueous Phase. **Hsin-Lan Hsu**, Chien-Yi Liao

01-05 Non-point Sources

840. Phosphorus Content, Sorption and Saturation of Topsoil in Chaohu Lake Watershed, China. **Huiping Zhou**, Chao Gao, Hecang Zhao

01-08 Drinking Water Management

812. A New Treatment System for Generating Potable Water from Municipal/Industrial Wastewater. **Yanguo Ma**, Mike Musial, Kenneth Wilson,
955. Chemical and Bacteriological Quality of Some Cameroon Bottled Drinking Waters. **George Elambo Nkeng**, Andrew Ako Ako, Stephanie Abonjo Oyeboog and Emmanuel Cheo Suh
1210. Community Characteristics of Biofilms Formed on Water Distribution Pipe Materials. **Sung-Chan Choi**, Hun-Joo Cha, Jung-Chul Suh, and Yeong-Kwan Kim

01-09 Water Resources and Assessment/ Management

502. Strategies for Sustainable Development of Hydrographic Ecosystems in Western and Central Romania. **Aurel Ardelean**, Dorina Ardelean, Violeta Turcuş, and Iulian Octavian Stana
503. Nonylphenols and Their Ethoxylates in Rivers and Harbor Area of Kaohsiung, Taiwan. **Bing-Jung Ku**, Wei-Hsien Wang, Shu-Hui Lee
732. Measure Determination and Zoning of Oil Pollution (TPH) on Costal Sediments of Bandar Abbas (Hormoz Strait) and Proving Control Strategies. Maryam Ehsanpour, Majid afkhami.
739. Investigation of Antibiotics in Long-Term Wastewater Irrigation Soil in Tianjin, China. Yali Shi Lihong Gao Wenhui Li Yaqi Cai
740. The Occurrence and Tissue Distribution of Perfluorinated Compounds in Farmed Freshwater Fish. Yali Shi Jiming Wang Yuanyuan Pan Yaqi Cai
809. China's Reward Mechanism for Reclamation of Sewage and Reusing of Reclaimed Water. Xinxin Huang*, Xinyi Xu, and Hongrui Wang
1181. Research of a New Combined Technological Process Used for Micro-Polluted Water Treatment. **Xin Da**, Xu Xinyi, Liu Xin and Zhang Xin.
1228. Comparison of Seawater Parameters in the Arabian Gulf and the Gulf of Oman. **Fadi Abdallah Al Jallad**, and **Muthanna Al Omar**
1258. Analysis of Effects on Water Quality Factors Using Developed Algae Blooms Forecasting Model. **MI EUN KIM**, , Young Su Jang, Ji Ye Im, Tae Seok Shon and Hyun Suk Shin

01-10 Nitrogen-Phosphorus Wastewater Biotreatment

510. Nitrogen Removal Performance in A Combined Bioreactor. **Junling Gao**, Yanling He and Cuiping Zhang
863. Application of Magnetite Modified with Polyacrylamide to Adsorb Phosphate in Aqueous Solution. Yi-Chen Chen, Ya-Fen Lin, and **Chyow-San Chiou**, Hua-Wei Chen

Sessions 01-01 ~ 01-10, self-numbered for poster:

- Bacteria Load in Surface Water Resources in Mbaise, Imo State, Nigeria. **Maduabum Anthony I.V.**, and Okpala Chukwura
- Singular Spectrum Analysis to ENSO and PDO Influences on Rainfall in West of Iran. Monireh Biabanaki and **Seyed Saeid Eslamian**, Julio Cañón, Jahangir Abedi Koupai

- Impact of Idol Immersion on the Physico-Chemical Properties of Water of Upper Lake of Bhopal. **Charanjeet Kaur**, Arti Patel
614. Modeling Chronic Effects on Life History Strategies of Ceriodaphnia Dubia: A Multigenerational Study. **Kiran Lamichhane**, T.W. La Point
617. Study on Precipitation of Chloranion and Chlorite Anion. **Yan Li**, and Chongwei Cui
621. Water Shed Management in Rural India: Traditional Wisdom - Modern Tools. **Ashok Kumar Ghosh**, Nupur Bose,
748. Routine Water Resource Monitoring Network for Eskom. **Kaajjal Durgapersad**
869. Corrosion in the Auxiliary Cooling System of Power Plants and Providing Suitable Solutions for the Problem. Mohammad Shokouhian, Farzad Piadeh, and Rouzbeh Shad
927. Spatial-Temporal Variations of Water Footprint in Hebei Province, 1995–2008: An Implication for Water Security Assessment. **Liu Mei**, Wang Feng
972. Study on Nitrogen Existence and Transformation in an Urban River. **Yaping ZHANG**, Xiaohong RUAN, Hua RONG
973. Odor Composition Characteristics of Urban Landscape Rivers and its Key Control Indexes. **Yu Wan**, Xiaohong Ruan, Xinguang Wang
993. Research on the Ecological Shelter Zone Design Method in the Three Gorges Reservoir Area, China. **Nan Shan**, and Xiaohong Ruan.
995. Trends in Runoff Variations of Huaihe Basin during the Last 50 Years. **Zarong Pan**, and Xiaohong Ruan
1200. Study on the Ecological and Environmental Issues of Mining Rare Earths in China. **Famin Liu**, **Weishou Shen** and **Changxin Zou**
1293. Quantitative Detection and Characterization of Human Adenoviruses in Buffalo River, in the Eastern Cape. **Vincent Nnamdigadi Chigor**, Timothy Sibanda and Anthony Ifeanyi Okoh
1300. Effective Use of Water from Karingalichal. **Zubin Joseph**, Abhilash A, Balagopal V and Dyan Das

02 Air Pollution and Air Quality Control

02-01 Aerosol

1019. Characterization of Size Resolved Air Particulates in the Vicinity of Electric Arc Furnace Steelmaking Facility. **Kazi Mohiuddin**, V. Strezov^a, E. Stelcer^b A. Morrison^a and P. Nelson^a

02-02 Air Quality Assessment

534. Effect of Various Browastes on Emissions in Combustion of Lignite Coal in A Circulating Fluidized Bed Combustor. **Aysel Atimtay*** and Murat Varol, Hayati Olgun, Ufuk Kayahan, Alper Unlu, Hüsnü Atakül

02-04 Waste Gas Control Techniques

25. 777. Toluene and N-hexane Adsorption on Almond Shell Based Activated Carbons. **Alicia Martínez de Yuso**, M⁸ Teresa Izquierdo, Begoña Rubio and M⁸ Rosa Pino.

Sessions 02-01 ~ 02-04, self-numbered for poster:

742. Chemical Composition and Real-Time Characterization of Urban Fine and Coarse Particles. Yan CHENG, and S. C. Lee
 793. Levels of Sulphur Dioxide and the Correlation to the Total Suspended Particulate Matter in Polluted Air Samples. El mukhtar Belgasem and Ramadan Damja
 794. Analysis of Suspended Particulates for Their Trace Element Contents. Ramadan Damja and Elmukhtar Belgasem
 1201. Sea Surface Microlayers and Resultant Aerosol Favor Branched Perfluorinated Surfactant Isomers Enrichment. **Xiaodong Ju**

03 Soil (Soil, Solid Waste) Pollution and Remediation

03-03 In-Situ Remediation

26. 1163. Phytoremediation of Arsenic Contaminated Soil by Fungi Inoculated *Rudbeckia Hirta*. **Haydn A. "Chip" Fox*** and Beth Felix
 27. 1193. Demonstration of In-Situ Remediation Using A Low Concentration Surfactant in A Shallow Aquifer. **Lee, G.S.**, Uhm, J.Y., Kim, Y.I. Kam, S.I.

03-04 Natural Attenuation of Contaminants

28. 792. The Effect of Composting on the Survival of *Escherichia Coli* O157:H7 in Bovine Manure. Itelima Janet, and Agina Samuel
 29. 951. Degradation of Lignosulfonate by a *Sphingobacterium* sp. strain HY-H. Dongqi Wang, **Yanling He**, Jidong Liang, Wenjing Du and Guanfei Huang
 30. 1114. Assessment of Rural Alaskan Solid Waste Leachate. **Edda Mutter**
 31. 1187. Effect of Straw Return on DOC and Cadmium Behavior in Polluted Soil. **Bai Yanchao**, Shan Yuhua and Feng Ke
 32. 1351 Potassium Silicate Drilling Fluid as a Land Reclamation Amendment. **Linjun(Marteya) Yao** and M. Anne Naeth

Sessions 03-01 ~ 03-04, self-numbered for poster:

555. Reduction of Lead Paint Bioavailability in Soil through Addition of Apatite II. **A. Hunt**, D.S. Alkandary, and R.W. Brown
 556. Apatite II Immobilization of Lead in Soil – A New Orleans Field Trial. **A. Hunt**, B. Shirtcliff, D. Alkandary, R.W. Brown
 1253. Management of Municipal Hazardous Wastes in Kuwait. Eng. Thekra S. Behbehani
 1254. Solid Waste Management in Kuwait. Nadia Al-Khabaz
 1286. Anaerobic Digestion of Thermally Pre-Treated Municipal Biowaste by A Pilot ASBR. **Yingjun ZHOU**, Masaki TAKAOKA, Zhou XIA, Wei WANG, Xiangyang QIU and Wei LU.

11 Modeling

11-1 Environmental Simulation

33. 904. A Novel Mathematical 'Sustainable University Model'. The Barcelona Industrial Engineering School Case. Yolanda Bolea, and Antoni Grau
 34. 1106. Modeling Hydrological Impact of Climate Change in Different Climate Zones. **Fasil Ejigu Eregno**, Chong-Yu Xu
 35. 1138. Developing A System Dynamic Model of Ecosystem Services for Assessing Conservation Scenarios. Yu-Pin Lin, Wei-Chi Lin, Li-Chi Chiang, and Yen-Lan Liu.
 36. 1257. Analysis of LID Technology Efficiency in Urban Sub-Watershed Using SWMM-LID Model.

- Tae Seok Shon**, Ji Ye Im, Sang Gu Lee, Hyun Suk Shin, Bong Gwon Kang, Bong Gwon Kang
 1280. EVO: A Virtual Observatory to Bridge Environmental Disciplines Using Cloud Computing. Yehia El-khatib, Gordon S. Blair, Alastair Gemmill, Robert Gurney, John W. Watkins, Gwyn Rees

11-2 Water Quality Modeling

38. 691. Investigation of Optimal Operation on Improved Irrigation System in Nile Delta. Ahmed M. ALY, Yoshinobu KITAMURA, Katsuyuki SHIMIZU, Taleet EL-GAMEL

Sessions 11-1 ~ 11-2, self-numbered for poster:

554. Hydroeconomic Modeling for Water Efficiency with Motorpump Irrigation Systems in Kou Basin. **Rivaldo A. B. Kpadonou**, Bruno Barbier, Joost Wellens, Elie Sauret
 778. Spatially Distributed Simulation of Nutrient and Pollutant Transport into Surface Waters on Regional and Catchment Scales. **M. Schindewolf**, P. Käpermann, J. Schmidt
 977. Research on Eco-coupled Model of Pollutants Removal in Integrated Vertical-flow Constructed Wetland. **Tianhai Ma**, and Xiaohong Ruan
 1118. A Proposal for New Approaches to Estimate Parameters in the Rainfall-Runoff Analysis. **KAZUHIRO YOSHIMI**, KEI AOKI, MASATO OKABE, TADASHI YAMADA
 1119. A Study on Physical Soil Properties in Runoff Phenomena. **Kunihiro Yamagami**, Kazuhiro Yoshimi and Kei Aoki, and Tadashi Yamada
 1120. Effect of Sea-Level Rise Volume As Initial Condition of Tsunami on Tsunami height. **Sousuke Tada**, C.Qian¹ T.Yamada²
 1123. Standing Wave Existence Condition in Experimental Channel. Yuichirou Kasama*, Masato OKABE*, Chao Chao Qian*, Tadashi YAMADA
 1124. Characteristics of Heavy Rain around the Tokyo Area. **Keisuke Yasuda**, Kazuhiro Itokawa, Kenichiro Uehira and Tadashi Yamada
 1129. Hydraulic Experiments on River Bed Migration in River Mouth. **KOYU NAKAMURA**, MAKOTO AIKAWA, CHAOCHAO QIAN, TADASHI YAMADA
 1349. A Pseudo-Continuous Neural Network Approach for Developing Water Retention Pedotransfer Functions with Limited Data. **Amir haghverdi** and Bijan Ghahraman
 1350. Simultaneous Application of SaltMod and ANN Models for Estimating Soil Salinity Profile Using Easy Collected Data. **Amir haghverdi** and Bijan Ghahraman

12 GIS, Statistics, and Remote Sensing

12-1 GIS for Environmental Assessment

39. 538. West Nile Virus Disease Prediction Modeling Using GIS Techniques. **Abhishek Kala**, Samuel Atkinson, and Armin Mikler.
 40. 1348. New Technique in Flood Mitigation in Urban Area, Example from Riyadh Saudi Arabia. **Farhan AlJuaidi**, Ibrahim Almejadeah

12-3 Environmental Remote Sensing Applications

41. 901. Geochemical Assessment of Groundwater Quality, Integrated with RS&GIS in Part of Western Assam, India. **Ravi Prakash Singh**, Rina Kumari, C.K.Singh² S.Shashtri¹, VikasKamal¹S.

Sessions 12-1 ~ 12-3, self-numbered for poster:

1289. GIS-Based Urban Watershed Quantity And Quality Integrated Regulate And Control. Weihua Zeng, Rongchang Chen
 1294. Effects of Surface Roughness on Radar Backscattering Characteristics. Roger Numetu

13 Environmental Analysis and

Measurements

13-1 Environmental Analytical Technologies

42. 787. Surface-Enhanced Raman Scattering Detection of Environmental Pollutants Using Fe₃O₄@Ag Nanoparticles. **Jingjing Du**, S. Q. Liu, C. Y. Jing
 43. 858. A New Global Contamination Generated from Marine Debris Polystyrene. Katsuhiko Saido, Hideto Sato, Akifumi Okabe, Seon-Yong Chung, Yasushi Kamaya, Naoto Ogawa, Kazuhiro Kogure, and Takashi Kusui.
 44. 1116. Study on Extreme Weather Events in Japan. **Masato Okabe**, and Tadashi Yamada

Sessions 13-1 ~ 13-4, self-numbered for poster:

1131. Telemonitoring in Medicine and Environmental Protection. **Mihaela Badea**, Monica Florescu, Liliana Rogozea
 1302. Flow Injection Analysis Spectrophotometry Determination of Chemical Oxygen Demand in Waste Water Sample. Kavita Tapadia
 1322. Trace Element Concentrations in Nails Using Atomic Absorption Spectrometry. **Fathi A.El-Amri**, Ramadan I. Damja

14 Society and the Environment

14-1 Society and the Environment

45. 810. The Implementation of "Three Red Lines" Water Management System in Beijing. Xinxin Huang*, Xinyi Xu, and Hongrui Wang

14-3 Environmental Education

46. 689. Educating Students about Computing Applications in Environmental Technology. Anu A. Gokhale
 47. 814. Step, or How to Integrate the Sustainability in Technological Degrees. Antoni Grau and Yolanda Bolea
 48. 878. The Uranium Fuel Cycle and Renewable Energy Alternatives from A Pedagogical Point of View. Antoni Grau, and Yolanda Bolea

Sessions 14-1 ~ 14-3, self-numbered for poster:

532. Prioritization of Factors Contributing to Environmental Attitudes Among Teachers in Iran-Ahvaz, **Forouzan Farrokhan**, Mohammad Hosseinpour and Atousa Soleimani

15 Environmental Planning and Management

15-01 Environmental Quality and Planning

49. 1161. Nigeria Urban and Regional Planning Law and Problems of Urban Governance in Lafia Town, Nasarawa State, Nigeria. Barau Daniel and Bashayi Obadiah

15-3 Environmental Policy and Management

50. 891. A Suitable Food Waste Disposer System in Korea. Yong-Woo JEON, Hae-Min YOO, Jong-Woo KANG, Dong-Hoon LEE
 51. 929. Integrated Safety and Environmental Risk System for CIPs in China. **Yu Qian**, Jun Bi, Qiang Fang
 52. 1287. Endocrine Activity of Domestic Sewage Effluent Following Indirect Potable Reuse Treatment. **Elizabeth Lawton**, Edwin Routledge, Susan Jobling, Eve Germain and Martyn Tupper

16 Renewable Energy Development

16-01 Water Energy Nexus

53. 836. A Water Turbine Generator at a Wastewater Treatment Plant. Jonathan Gorman, Denis Guleiof, Ashley Rivera, Theresa Perez, Arnoldo Ramirez, Daniel Guerra, Jianhong Ren, and Lee Clapp

16-04 Bio-fuels

54. 549. Complete Utilization of Spent Coffee to Biodiesel, Bio-Oil and Biochar. Brajendra K Sharma, Derek Vardon², Bryan R. Moser³, Wei Zheng¹, Katie Witkin¹, Roque Evangelista³, and Nandakishore Rajagopalan¹
55. 553. Renewable Bio Crude Oils from Thermochemical Conversion of Waste Lipids. Brajendra K Sharma, Derek Vardon² and Nandakishore Rajagopalan
56. 648. Ethanol Production from Food Crop Wastes by Simultaneous Saccharification and Fermentation Process. Itelima Janet, Ikpe Charles and Pandukur Sunday
57. 950. Effect of Heat-, Alkali-, and Ultrasonic-Pretreatment on Anaerobic Digestion of Chicken Manure. Funda Şentürk, Hasret Sahin, **Tuba H. Ergüder**, Eray Esendir
58. 1071. Butanol and ABE Solution as the Alternative Fuels in the Diesel Engine. **Yu-Cheng Chang** and Wen-Jhy Lee, Sheng-Lun Lin and Lin-Chi Wang
59. 1139. Energy Densified Solid Fuel Production: An Alternative Approach for Biomass Utilization. Ganesh K. Parshetti, Akshay Jain, Rajasekhar Balasubramaniam and M. P. Srinivasan
60. 1312. Crude and Bio-oils Production from Application of Liquefaction with Plant Residues. **JeongDu Shin**, Seung Gil Hong, Woo Kyun Park and Hyun Seon Shin

Sessions 16-1 ~ 16-5, self-numbered for poster:

1017. Co-Digestion of Degradable Waste and Cow Dung for Methane Production. **Leila Amiri**, Edris Madadian and Mohammad Ali Abdoli

POSTER SESSION II

Atrium Lobby

7:00 p.m. – 9:00 p.m.

Wednesday, June 27, 2012

01 Water Pollution and Water Quality Control

01-13 Industrial Wastewater Biotreatment

1. 653. Biosorption and Bioaccumulation of Chromium(III) from Aqueous Solution Employing *Aspergillus lentulus*. Abhishek Mishra and Anushree Malik
2. 677. Biodegradation of highly Contaminated Pentachlorophenol (PCP) Processwater. Kimberly Wallace Walker, **H.Borazjani**, and S. Langroodi
3. 1014. Start-Up of an Aerobic Granular Sludge Non Tubular Reactor. **Ana M. T. Mata**, Nidia Dana Lourenço, Helena Maria Pinheiro¹

01-14 Adsorption/Desorption for Wastewater Treatment

4. 1292. Modeling Competitive Biosorption of Cadmium (II) and Zinc (II) Ions by Protonated Citrus Peels. **Abhijit Chatterjee**, and Silke Schiewer

01-15 Physico-chemical Wastewater Treatment

5. 830. Fe-Mn₂O₃ Composite: Preparation, Identification and Characteristics in Fenton-Like Reaction. Si-Hyun Do, Su-Jin Bang, and Yong-Jae Kwon.
6. 866. Simultaneous Removal of As(III) And As(V) by Advanced Oxidation. **Sil-hee Hong**, Young-hoon Jo and Sung-ho Kong.
7. 1024. Electro-regeneration of Ce(IV) in Real Spent Cr-etching Solutions: Comparison of Separators. Kuo-Lin Huang, Te-San Chen, Shui-Jen Chen, and Yi-Min Ding.
8. 1202. Electrochemistry and Aqueous Chemistry of Zero-Valent Titanium for Degradation of

Perchlorate in Water. **Dong Suk Han**, Bill Batchelor, Chunwoo Lee, Sung Hyuk Park, Ahmed Abdel-Wahab.

9. 1204. Advanced Reduction Process for Degradation of Chlorinated Aliphatic Compounds Using Sulfur Compounds and UV Light. **Sun Hee Yoon**, Dong Suk Han, Bill Batchelor, Ahmed Abdel-Wahab.
10. 1205. Effect of Heavy Metals Cd²⁺ and Cu²⁺ on K⁺ Transport through NSCCs. Feng Ke. **Shan Yuhua**, Wang Xiaoli and Wang Yuqian.

01-16 Reactions and Degradation of Wastewater Contaminants

11. 577. Catalytic Wet Decomposition of Dimethyl Phthalate. Chia-Chi Chang, Shih-Yun Chen¹, Ching-Yuan Chang^{1*}, Sheng-Wei Chiang¹, Chiung-Fen Chang², Yi-Hung Chen
12. 911. Degradation Kinetics and Mechanism of Conjugated Steroid Estrogens in Dairy Lagoon Wastewater. **Wei Zheng**, Xiaolin Li, Yonghong Zhou, and Michael L. Machesky

01-17 Nanotechnology Applications

13. 791. Reductive/Oxidative Decomposition of Perfluorooctane Sulfonate Using nZVI Conjugated With Oxidants. Wasiu A. Lawal and Hyeok Choi
14. 999. Microcystis Aeruginosa Removal Using Natural Clay Nanomaterials, Chen-Hao Li, Yu-Han Yu and **Shu-Chi Chang**.
15. 1069. Development of CNT-TiO₂ Photocatalysts Using Separation of Carbon Nanotube. **Hyukmin Kweon**, Thuy-Duong Nguyen-Phan and Eun Woo Shin
16. 1296. Synthesis of Tungsten-Doped Titania Nanoparticles and Applications for Photo-Degradation of Methylene Blue, Zn²⁺ and Pb²⁺ from Aqueous Solutions. **Naim M. Faqir**
17. 1337. Effect of Annealing on Physical Characteristics and Photoelectrochemical Response of Nanostructured ZnO. **Pushpendra Kumar**, Vidhika Sharma, Nirupama Singh, Babita Kumari, Shailja Sharma, Sumant Upadhyay, Surbhi Choudhary, Vibha Rani Satsangi[#], Sahab Dass and Rohit Shrivastav

Sessions 01-11 ~ 01-17, self-numbered for poster:

633. Synergistic Technology of Modified Photocatalyst with Plasma for Toluene Decomposition. Zhu Tao, Wan Yandong, Li Hairong, Chen Sha, Liu Haibing
656. Photocatalytic Oxidation of Antibiotic Norfloxacin in the Irradiation of Visible Light. Meijuan Chen, Wei Chu
731. Removal of Toxic Cadmium from Wastewater Using Green Algae *Ulva Lactuca*. Zahra Khoshnood, Reza Khoshnood
733. Investigation of Antibiotics Removal from Pharmaceutical Wastewater by Marine Algae and Evaluation of Kinetic Model. Maryam Ehsanpour, Majid Afkhami
801. Enhancing Selective Oxidation of TiO₂ Photocatalysts for Decomposition of Target Pollutants. Abolfazl Zakersalehi and Hyeok Choi
1075. Thermo-economic Optimization of a Polymer Electrolyte Membrane Fuel Cell Stack, **Hossein Esmaeilzadeh**, Hoseyn Sayyaadi
1284. Synthesis of Ag Doped TiO₂ Powder-Coated Surfaces and Its Ability To Inactivate *Pseudomonas Aeruginosa* and *Bacillus Subtilis*. Saman Khan, Mamona Noureen and Ishtiaq Qazi

02 Air Pollution and Air Quality Control

02-5 Air Pollutant Monitoring

18. 802. Relationship Between Air and Water Temperature in the Ebro River (Spain). M^o Rosa Pino Otín, Hugo Saiz Bustamante⁽²⁾, Jonatan Val Pulido⁽¹⁾, Cecilia Español Latorre⁽¹⁾
19. 803. Nerium Oleander as Biomonitor Tool for Mapping Heavy Metal Immission in Cities. Ana Martín Alcobér, M^o Rosa Pino, Mercedes García, Enrique Navarro

20. 845. Toxic Metals from illegal Open Burning and Source Apportionment of PM_{2.5}. Jin-Hong Lee, and Jin-Hee Jeong, Jong-Myoung Lim, Ki-Hyun Kim
21. 1070. PCDD/F and PBDE Emissions from Co-combustion of Woodchip and Wastewater. **Shun-Shiang Chang**, Wen-Jhy Lee, Lin-Chi Wang, and Guo-Pin Chang-Chian
22. 1091. PCDD/Fs in the Ambient Air of Taipei City, Taiwan. **Shun-I Shih***, Shun-Shiang Chang, Wen-Jhy Lee, Yi-Chieh Lai, Lin-Chi Wang, and Guo-Ping Chang-Chien
23. 1221. First results of Air Monitoring in South East European Port of Bourgas. **Jordan Marinski**, Ekaterina Bachvarova, Hristomir Branzov, Anna Jordanova, Svilen Borisov
24. 1318. Greenhouse Gas Emission Inventories in Company Environmental Reporting. **Nina Braschel** and Alfred Posch

02-06 Hazardous Gas Biofiltration

25. 856. Scenarios for Improving Hydrophobic VOCs Elimination in Trickle-Bed-Air-Biofilters. Abderrahman Zehraoui,

Sessions 02-5 ~ 02-09, self-numbered for poster:

1230. Measurements of NO₂ mixing ratios with Topographic Target Light Scattering-Differential Optical Absorption Spectroscopy System in China. Wang Yang, Li Ang□, Xie Pin-Hua, Liu Wen-Qing.

03 Land (Soil, Waste Solid) Pollution and Remediation

03-06 Landfill

26. 563. Selective Monitoring of Groundwater Parameters for Post Closure Care Monitoring at Closed Landfills. **Banu Sizirci Yildiz**, Berrin Tansel
27. 1308. Modeling of Different Landfill Daily Cover Using Hydrus- 2D/3D –Jordan. Mohammad Aljaradin, Kenneth M Persson and Tarek Selim

03-09 Waste Recycling

28. 576. Autoclaving Treatment of Municipal Solid Waste for the Recovery of Biomass and Its Reutilization. **Chia-Chi Chang**, Y.C. Wang¹, Z.S. Hung¹, S.W. Chiang¹, J.L. Shie², Y.S. Li², Y.H. Chen³, C.F. Ho⁴, C.Y. Chang
29. 900. The Study of Using Temperature-Phased Anaerobic Digestion for Biofertilizer Production. **Wen-Hsing Chen**, Wei-Lun Jhuang, Jih-Gaw Lin
30. 1063. High Strength Concrete by Recycled Aggregate and Mixing Blast Furnace Slag. **Seong Uk Hong**, Yong Taeg Lee, Young Sang Cho, Back Sang Ki, Jang Hyun Seok
31. 1094. Leaching Characteristics of Scrap CRT Glasses and Lead Separation by a SHS Process. **Jianxin Zhu** and Yu Wang
32. 1234. Kinetic Study of Dual-core Oxygen Carriers Using Sol-Gel for Chemical Looping. **Jie Zhu***, Wei Wang, Shoudu Wang, and Yue Hu

Sessions 03-5 ~ 03-09, self-numbered for poster:

864. Adsorption of Hazardous Petroleum Constituents by Ordinary and Modified Bentonites. **Mohammad Ali Hosseinpour**, Hossein Ghoreishi, Mona Jafarnejad, Saeid Gitipour, Mina Mohebbi
1277. Methane Recovery from Landfill Gas: A Case Study in China. **Lei ZHENG**, Wei WANG, Zhou DENG, Hong CHEN, Bo QU, Juan DU, Jidong CHEN
1307. Espousal of Flyash+Clay as Innovative Backfill Material for Construction of Reinforced Bridge Embankment. **Vashi Jigisha M.**, Desai Atul K., and Solanki, Chandresh H.

04-1 Ecosystem Restoration

04-1 Ecosystem Assessment

33. 514. Measurement and Estimation of Forest Water Retention Capacity along The Forest Transect. **Xuyong Li**, Fei Mo and Xiaoxue Wang.
34. 1177. Effect of O₃ Enrichment on Microelements in Wheat and Soil. **Xiaozhi Wang**, Xianchen Zhang, Weiqin Yin, Yuhua Shan, Haitao Zhao and Ke Feng, Jianguo Zhu
35. 1180. Survey of the Impacts of Acid Mine Drainage on Infrastructure. Stephen O. Ekololu, Firehiwot Azene

Sessions 04-01 ~ 04-04, Self-numbered:

635. Environmentally Induced Migrations: Theoretical Frameworks and Current Challenges. Bogumil Terminiński
654. Eutrophication Assessment of the Changjiang River Estuary Based on Water Quality and Ecological Symptoms. **Zhiming Yu**, Chao Chai², Xiuxian Song¹, Xihua Cao¹ and Yongquan Yuan¹
705. Accumulation of Radionuclides in Water-Soil-Plants in Zones of the ANPP. L.M. Ghalachyan, K.A. Kocharyan, L.S. Tadevosyan, A.A. Aristakesyan, A.Z. Asatryan
718. Study of Industrial Pollutions Effect on Thannus Tonggol in Persian Gulf. Reza Khoshnood, Zahra Khoshnood.
725. Health Risks Evaluation of Heavy Metals in Sea Food from Persian Gulf. Majid afkhami, Maryam Ehsanpour, Reza khoshnood
771. The Productivity of *Ocimum Basilicum* L. in Conditions of the Water Stream Hydroponics. **Kh. S. Mairapetyan**, **Kh. S. Mairapetyan**, J.S. Alexanyan, A.H. Tadevosyan, A.H. Tovmasyan, B.T. Stepanyan, H.M. Galstyan, S. Kh. Mairapetyan
1031. The Impact of Kiwifruit Management on Allophanic Soil Quality: Physical, Chemical and Hydrological Properties. M Hasinur Rahman, Kathrine Pellowe, Pip Mills and Hamish Cameron, Allister Holmes
1054. Advantages and Disadvantages of Using AMBI and M-AMBI for Evaluating Coastal Ecosystem Status in Xiamen, China. Li-Zhe Cai
1249. Phytosociological Studies of Forest of Dhamtari District of Chhattisgarh State of India. **Acharya V.**, Sharma V.L., Naik M.L. & Kanungo V.K., Acharya J.J.
1269. Transformation of Ecosystem Restoration: Urban Farming Program in Surabaya Indonesia. Aluisius Hery Pratono,

05 Bio-Assessment and Toxicology

05-2 Bio-response and Bioavailability

36. 539. Protection of Arsenic-Induced Thyroid Oxidative Stress by Melatonin. **DAMORE DIMPLE**
37. 882. Comparison of Acute Toxicity of Six Different Chemicals with *Eisenia Fetida* Bioassay. Laura Lomba, Diego Ballester, Jonatan Val, Beatriz Giner and M^o Rosa Pino Otín,
38. 886. Inhibitory Effects of A, B-Unsaturated Aldehydes on Algal Photosynthesis Reaction. Chung Yuan Chen, and Sy-Hong Lin
39. 895. Ecotoxicity Testing of Two Estonian Shale Fuel Oils. **Liina Kanarbik**, Irina Blinova
40. 1279. Novel Methods To Explore The Immune-Effects of Pollution on Parasite-Host Interactions. **Adam Lynch**, Edwin Routledge, Leslie Noble

05-4 Microbiology and Microbial Degradation

41. 662. Acquired Resistance Enhancement against *Plasmopara viticola* Using Different Biotic Inducers. Muneera D.F. Alkahtani,
42. 719. The Occurrence of Multidrug - Resistant Bacteria in Polychlorinated Biphenyl Polluted Soil-Groundwater System. Natasha Bhutani, Satish Walia, Sandeep Walia, Sonia Rana
43. 780. Study on the Decomposition Process of Lignin by Domesticated Anaerobic Bacteria. Wenjing Du, **Jidong Liang***, Dongqi Wang, Jian Lin

44. 820. Antimicrobial Activity of Some Species of Microorganisms Isolated from Waste Oil Polluted Mechanic Workshops. Ogbonna Abigail, Sila, Micheal
45. 1165. Functionality of the Probiotics Fermented Rice Straw and Soybean Meal Hydrolysates. Li-Jung Yin, Hwei-Hung Lee, Shann-Tzong Jiang
46. 1206. Degradation of Histamine by *Bacillus Polymax* Isolated from Salted Seafood Products. YI-CHEN LEE, CHUNG-SAINT LIN, YU-RU HUANG, AND YUNG-HSIANG TSAI

Sessions 05-01 ~ 05-04, self-numbered for poster:

661. Bioremediation of Oil Pollution. Bini Samal, Parul Kotiyal, Mridulla Negi
715. Bioremediation and Biotransformation of Environmental Pollutants Using Microorganisms. Reza Khoshnood, Zahra Khoshnood
716. Estimation of THQ for Metals by Fish Consumption in Iranian South Coast. Reza Khoshnood, Zahra Khoshnood.
729. Heavy Metals Health Risk Assessment in Sea Food. Zahra Khoshnood. Reza Khoshnood.
730. Heavy Metal Concentrations in Marine Molluscs from the South Coastal of Iran. **Zahra Khoshnood**, Reza Khoshnood
894. Health Risk Assessment of Organic Pollutants in Urban Landscape River. Jing AO, CAI Mei², RUAN Xiaohong
1095. A Hydrologic Approach to Radioactive Substance in A Human Body – I. **Hayase Yoneda**, Syota Sasaki¹, Tadashi Yamada¹, Tomohito Yamada²
1115. Compounds with Antimicrobial Activities for *P. aeruginosa* and *A.baumannii*. **Yu Wu**, **Cong-gui Zhao*** and **Ruoting Pei**
1270. Hormonal Disrupters and Their Effects Laying Emphasis on Sex Hormones. Okoi, Benedette Leko, Gabriel, Francis Akpan

06 Wetlands

06-01 Wetland Conservation

47. 747. Wetland Index for the Assessment of Wetlands on Eskom Properties in Mpumalanga. Kaajial Durgapersad, P. Oberholster, P. McMillan

06-02 Wetlands for Wastewater Treatment

48. 708. Nitrogen Dynamics and Microbial Community Compositions in Six Vertical Flow Wetland Columns. Guangzhi Sun, Yafei Zhu, and Tanveer Saeed

Sessions 06-1 ~ 06-02, self-numbered for poster:

505. Water Quality Variability and Eutrophic State in Shadegan Marshes in Iran, **Forouzan Farrokhan**. Forouzan Farrokhan
1048. Constructed Wetland in Tlapa, México as Wastewater Treatment Alternative in Mexican Cities. Guillermo Cardoso-Landa

07 Sediments

07-01 Assessment of Sediments

49. 1215. Sediment Quality Assessment in Bourgas Bay, Black Sea. **Jordan Marinski**, Elitza Angelova, Zvezdimira Tzvetanova, Magdalena Korsachka, Roumen Marinov, Anelia Kenarova

08. Global Change

08-1. Global Warming and its Impacts

50. 881. Climate Change Scenarios for Aragon (Spain) Using A Two-Step Analog/Regression Downscaling Method., Jayme Ribalaygua⁽¹⁾, **M^o Rosa Pino Otín**⁽²⁾, Luis Torres⁽¹⁾, Javier Pórtolos⁽¹⁾, Emma Gaitán⁽¹⁾, Esther Roldán

Sessions 08-1 ~ 08-02, self-numbered for poster:

728. Global Warming and Aquatic Ecosystems, Challenges and Alterations. Zahra Khoshnood. Reza Khoshnood
1272. Combating Climate Change and The Banes of Developments in Nigeria. Gabriel, Francis Akpan
1273. Repairing the Stratospheric Ozone Layer Depletion. Gabriel, Francis Akpan, Udoessien, Etim Isaac, Akpan, Uduak Sylvester
1316. CO₂ Adsorption from Gas mixture by Commercial Palm Shell Activated Carbon Impregnated with Amine-based Chemical. Saad Hashim Khaili, Mohamed Kheireddine Aroua and Wan Mohd Ashri Wan Daud

09 Metals

09-01 Metal Distribution

51. 724. Determination of Heavy Metals (Cd, Pb, Hg, Cu, Fe, Mn, Al, As, Ni And Zn) in 6 Important Commercial Fish Species in North of Hormoz Strait. Majid afkhami, Maryam Ehsanpour, Zahra Khoshnood
52. 734. Surveying Mercury Rate in Four Organs (Liver, Kidney, Wing and Muscle) of White Chin Shark (*Carcharhinus Dussumieri*) in North of Hormoz Strait. Aida khazaali, Reza khoshnood, Zahra khoshnood, Maryam Ehsanpour.
53. 887. Trace Metal and Dioxin Deposition History in Hurricane Katrina Impacted Marsh Sediment. Gopal Bera, and Alan Shiller, Kevin Yeager

09-02 Metal Removal and Remediation

54. 581. Biological Leaching of Heavy Metals from Contaminated Sediment by Heterotrophic Microorganisms. **Shen-Yi Chen*** and Sheng-Ying Wang
55. 636. Extractability of Heavy Metals in Bottom Ash and Fly Ash from a Multi-Fuel Boiler Using Artificial Sweat and Gastric Fluids. Risto Pöykkiö, Kati Manskinen, Olli Dahl
56. 709. Removal of Arsenic by Coprecipitation With Iron in Vertical Flow Wetland Columns. Katherine Lizama Allende, Timothy Fletcher, and Guangzhi Sun
57. 1260. Removal of Chromium (VI) Ions by Using Biofilm-Biomass of *Yarrowia Lipolytica*. **Ashok Bankar**, Prajakta Vishe, Priyanka Mitra, Ameeta Kumar and Smita Zinjarde, Mark Winey

09-3 Speciation, Bioavailability and Accumulation

58. 1303. Arsenic Mobilization and Uptake by *Pteris Vittata* from an Industrial Contaminated Soil in Tuscany (Italy). **Meri Barbafieri**, Virginia Giansoldati¹, Francesca Pedron¹, Gianniantonio Petruzzelli¹, Irene Rosellini¹, Roberto Bagatin², Elisabetta Franchi³

Sessions 09-1 ~ 09-04, self-numbered for poster:

557. Geospatial Assessment of Widespread Soil Pb Contamination in Memphis, TN. **R.W. Brown**, D. S. Alkandary, A. Hunt
655. Application of Soil Flushing for Removal of Arsenic from Soils. **Saeid Gitipour**, Edris Madadian and Amir Asad Koushki
704. Distribution of Heavy Metals in Water-Soil-Plant System in Ararat Valley. L.M. Ghalachyan, K.A. Kocharyan, L.S. Tadevosyan, A.A. Aristakesyan, A.Z. Asatryan
735. Mercury Concentration in Mudskipper (*Periophthalmus waltoni*) and Common Stingray (*Dasyatis Pastinaca*) in Bandar-E-Emam and Qeshm Island. Aida khazaali, Pooyan Nikeghbali, Majid Afkhami.
737. Cadmium Determination in Fishes from Fishery Regions along the Iranian Coastline. Aida Khazaali, Reza Khoshnood, Zahra Khoshnood.