

Monday

July 15

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| 8:00 AM | Registration |
| 9:00 AM – 9:20 AM | Official Opening of Conference |
| 9:20 AM – 10:00 AM | Keynote Lecture 1: <i>Pharmaceutical Residues in Environment – Importance, Analysis and Removal</i> Marek Trojanowicz University of Warsaw, Poland |
| 10:00 AM – 10:20 AM | Coffee Break |
| 10:20 AM – 12:20 PM | |
| Session Name: Environment Sustainability and Development | |
| Session Chairs: Dr. Marek Trojanowicz Dr. Edith Chopin & | |
| 10:20 AM – 10:40 AM | Paper 42: " <i>Contribution Of Jobs/Housing Balance and Land Use Mix towards Environmental Sustainability and Development</i> " Afia Zubair Raja |
| 10:40 AM – 11:00 AM | Paper 95: " <i>A Parking Lot on Grandpa's Farm</i> " George Smith |
| 11:00 AM – 11:20 PM AM | Paper 209: " <i>Characterization of Inorganic Elements in Woody Biomass Bottom Ash from a Fixed-bed Combustion System, a Downdraft Gasifier and a Wood Pellet Burner by Fractionation</i> " Adrian K. James , Steve S. Helle, Ronald W. Thring, Gurkaran S. Sarohia, P. Michael Rutherford |

Session Chairs:
Dr. James Li

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| 11:20 AM – 11:40 AM | Paper 198: <i>"Environmental Changes and Restoration of Honghu Wetland, China"</i> Yun Du , Meng Xu, Qi Feng , Fei Xiao |
| 11:40 AM – 12:00 PM | Paper 66: <i>"Spatial Variability of Total Nitrogen in Yangtze River Estuary using Geostatistics"</i> Ruimin Liu , Yaxin Chen, Chengchun Sun, Peipei Zhang, Chenghong Feng, Zhenya Shen |
| 12:00 PM – 12:20 PM | Paper 87: <i>"To Methylate or not to Methylate? Study of Mercury Speciation along the Venetian Littoral System (Q-ALiVe project)"</i> F. Corami , C. Turetta, P. Cescon, R. Piazza, W.R.L Cairns, C. Barbante |
| 12:20 PM 1:20 PM | Lunch |
| 1:20 PM – 3:20 PM | |
| Session Name: Water Pollution and Treatment I | |
| Session Chairs: Dr. Fabiana Corami & Dr. Ruimin Liu | |
| 1:20 PM – 1:40 PM | Paper 3: <i>"Underground Water Quality Degradation Due to Salt Domes, Case Study, Semnan, Iran"</i> Sadat Feiznia, Mohammad Sadegh Zakikhani , Tahere Baghernejad |
| 1:40 PM – 2:00 PM | Paper 50: <i>"Arsenic Removal from Ground Water by Goethite Impregnated Calcium Alginate Beads"</i> H. Basu , R.K. Singhal, M.C. Pimple, A.V.R Reddy |
| 2:00 PM – 2:20 PM | Paper 62: <i>"Removal of Pharmaceuticals by Underwater Corona-like Discharges"</i> Svetlana Gasanova , Ursula Telgheder, Klaus Kerpen, Andriy Kuklya |

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| 2:20 PM – 2:40 PM | <p>Paper 72: <i>"Radiolytic Decomposition of Pharmaceutical Residues of Diclofenac – Analytical, Toxicological and Pulse Radiolysis Studies"</i> Marek Trojanowicz, Magdalena Gumiela, Anna Koc, Anna Bojanowska-Czajka, Gabriel Kciuk, Krzysztof Bobrowski, Grzegorz Nałęcz-Jawecki</p> | | |
| 2:40 PM – 3:00 PM | <p>Paper 75: <i>"Multivariate Analysis of Water Quality Parameters"</i> Shakhawat Chowdhury</p> | | |
| 3:00 PM – 3:20 PM | <p>Paper 83: <i>"Analysis of Selected Active Treatment Options for Acid Mine Drainage in a water-scarced country, a review: Case of South Africa"</i> Joseph K. Bwapwa</p> | | |
| 3:20 PM – 3:40 PM | Coffee Break | | |
| 3:40 PM – 6:00 PM | | | |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%; padding: 5px;">Session Name: Environmental Risk Assessment</td> <td style="width: 40%; padding: 5px; text-align: center;">Session Chairs: Dr. Qi Feng & Dr. Afia Zubair Raja</td> </tr> </table> | | Session Name: Environmental Risk Assessment | Session Chairs: Dr. Qi Feng & Dr. Afia Zubair Raja |
| Session Name: Environmental Risk Assessment | Session Chairs: Dr. Qi Feng & Dr. Afia Zubair Raja | | |
| 3:40 PM – 4:00PM | <p>Paper 4: <i>"Debris Flows in Ziarat Drainage Basin, Iran: Their Mechanical and Sedimentological Characteristics"</i> Mohammad Sadegh Zakikhani, Sadat Feiznia, Ali Najanfinejad</p> | | |
| 4:00 PM – 4:20 PM | <p>Paper 208: <i>"Biosurfactant sophorolipid enhanced dispersion and biodegradation of spilled oil in seawater"</i> Nayereh Saborimanesh, Catherine N. Mulligan</p> | | |
| 4:20 PM – 4:40 PM | <p>Paper 211: <i>"The Vulnerability of Underground Storage Tanks during Extreme Weather Events"</i> Ryan Kiska, Tait Chirenje</p> | | |

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| <p>4:40 PM – 5:00 PM</p> | <p>Paper 161: <i>"Persistent Organic Pollutant in the Venetian coastal environment"</i> S. Zambon, G. Rizzato, C. Turetta, F. Corami, M. Vecchiato, R. Piazza, C. Barbante</p> |
| <p>5:00 PM – 5:20 PM</p> | <p>Paper 205: <i>"Distribution and sources of PCBs in Surficial, Core and Suspended Sediments from the Clinton River Watershed, SE Michigan (USA)"</i> Edith Chopin, Rajalashmi Mudbidre, Robert Coffey, Linda Schweitzer, Edmond van Hees, Gibran Washington, Jason Jweda, Sanjiv Sinha</p> |
| <p>5:20 PM – 5:40 PM</p> | <p>Paper 78: <i>"N-nitrosodimethylamine in Food and Drinks: A Comparison for Drinking Water"</i> Shakhaway Chowdhury</p> |
| <p>5:40 PM – 6:00 PM</p> | <p>Paper 80: <i>"Contributions of Estuarine Cities to the PAHs Levels in the Yangtze Estuary"</i> Chenghong Feng, Dongxin Wang, Ruimin Liu, Junfeng Niu, Zhenyao Shen</p> |

Tuesday

July 16

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| 9:00 AM – 9:40 AM | <p>Keynote Lecture 2: <i>An Emerging Analytical Technique for Analyzing Dioxins in the Environment: Enzyme-Linked Immunosorbent Assay (ELISA)</i> James Li Ryerson University, Canada</p> | | |
| 9:40 AM – 10:00 AM | Coffee Break | | |
| 10:00 AM – 12:20 PM | Poster Session ⁱ | | |
| 10:00 AM – 12:20 PM | | | |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 70%;">Session Name: Wastewater Management and Treatment</td> <td style="width: 30%; text-align: center;"> Session Chairs: Dr. Hatem Abou-Senna & Dr. Veronica Ngole </td> </tr> </table> | | Session Name: Wastewater Management and Treatment | Session Chairs: Dr. Hatem Abou-Senna & Dr. Veronica Ngole |
| Session Name: Wastewater Management and Treatment | Session Chairs: Dr. Hatem Abou-Senna & Dr. Veronica Ngole | | |
| 10:00 AM – 10:20 AM | <p>Paper 172: <i>"A Feasibility Study of a Clay-Zeolite Media as a Removal Technology of Total Phosphorus from Wastewater"</i> Amanda L. Alaica, Grace K. Luk</p> | | |
| 10:20 AM – 10:40 AM | <p>Paper 220: <i>"Protection of the Environment during the Construction of One of Europe's Largest Land Based Windfarms"</i> Bob Gilmour</p> | | |
| 10:40 AM – 11:00 AM | <p>Paper 49: <i>"Phosphorus Losses following Biosolids and Meat and Bone Meal Applications to Soil"</i> Joseph D. Lucid, Mark G. Healy, Owen Fenton, Jim Grant</p> | | |
| 11:00 AM – 11:20 AM | <p>Paper 165: <i>"Wastewater Reuse Potential and Sustainable Water Resources Planning for GCC Countries"</i> Tahir Husain, Ekram Y. Danish</p> | | |

Session Chairs:
Dr. Marek Trojanowicz

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| 11:20 AM – 11:40 AM | Paper 47: <i>"Chemical Amendments for the Treatment of Various Types of Agricultural Effluent"</i> Mark G. Healy , Cornelius J. O'Flynn, Ana Serrenho, Owen Fenton, Gary Lanigan, Jim Grant, Raymond B. Brennan |
| 11:40 AM – 12:00 PM | Paper 184: <i>"Simulation Study to Improve Wastewater Treatment Plant Operation and Upgrading"</i> Mervant El-Hoz , Najib Gerges |
| 12:00 PM – 12:20 PM | Paper 192: <i>"Thermodynamics and Absorption Efficiencies of Maize cob and Sawdust for the Remediation of Toxic Metals from Wastewater"</i> Muhammad B. Ibrahim |
| 12:20 PM – 1:20 PM | Lunch |
| 1:20 PM – 3:20 PM | |
| Session Name: Air Pollution and Treatment | |
| Session Chairs: Dr. Bob Gilmour & Dr. Jianbing Li | |
| 1:20 PM – 1:40 PM | Paper 98: <i>" Microscopic Assessment of Vehicular Emissions for Managed Lanes and General Use Lanes"</i> Hatem Abou-Senna , Essam Radwan |
| 1:40 PM – 2:00 PM | Paper 168: <i>"Assessing the Effects of Pico y Placa Policy on PM_{2.5}, O₃ and CO Levels in the Distrito Metropolitano de Quito, Ecuador"</i> Luis Ramirez, Samantha Kellogg, Jordan Bosco, Alyssa Leright, Rachel Tykoski, Sean Mo , Robert Roe, Juan Baca, Valeria Diaz, Bladimir Ibarra |
| 2:00 PM – 2:20 PM | Paper 5: <i>"Health Effect of Air Pollution: A Case Study of Allahabad City in India"</i> Abdur Rahman Quaff , Bhumika Singh |
| 2:20 PM – 2:40 PM | Paper 199: <i>"Kinetics of Ethanethiol Biodegradation using a Pure Bacterial Culture"</i> Mahsa Sedighi, Seyed Hadi Khatami, Farzaneh Vahabzadeh , Seyed Morteza Zamir |

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| 2:40 PM – 3:00 PM | Paper 99: <i>"Airflow around buildings – effects on pedestrian-level pollutant dispersion"</i> Shirley Xia, Xiaoping Liu, Jianlei Niu |
| 3:00 PM – 3:20 PM | Paper 94: <i>"Investigation of the Temperature Inversion related to Air Pollution in Tehran"</i> Ghasem Azizi , Aliakbar Shamsipour, Parviz Panjekoobi |
| 3:20 PM – 3:40 PM | Coffee Break |
| 3:40 PM – 5:40 PM | |
| Session Name: Soil Pollution and Treatment | |
| Session Chairs: Dr. Mark G. Healy & Dr. Sean Mo | |
| 3:40 PM – 4:00 PM | Paper 96: <i>"In situ Application of Activated Carbon and Biochar to Minimize DDT Bioavailability "</i> Mackenzie J. Denyes , Barbara A. Zeeb, Allison Rutter |
| 4:00 PM – 4:20 PM | Paper 178: <i>"Enhancement of Ex-Situ Bio-remediation of Petroleum Contaminated Soil in Cold Climate Conditions using Compost and Microbial Consortium"</i> Francisco Gomez , Majib Sartaj |
| 4:20 PM – 4:40 PM | Paper 57: <i>"Effects of Three Ringed PAH and N-PAHs on Earthworm (Eisenia Fetida) in Soil"</i> Ihuoma N. Anyanwu , Ojerime C. Ikpikpini, Kirk T. Semple |
| 4:40 PM – 5:00 PM | Paper 164: <i>"Mecoprop Mineralization in Subsoil at Denitrifying Conditions"</i> Zuzana Frková , Anders Johansen, Ulrich Gosewinkel Karlson |
| 5:00 PM – 5:20 PM | Paper 79: <i>"Effect of Vehicular Emission on Heavy Metal Concentrations in Soils along a Highway in Cameroon, and Possible Health Implications"</i> Veronica M. Ngole |

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| 5:20 PM – 5:40 PM | Paper 179: “ <i>The Environmental Impact of Urbanization within Abu Dhabi on the Microbial Profile of Man-made Beaches</i> ” Fatima Al Marzooqi, Fatme Al Anouti |
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i) Please refer to the end of this schedule for the posters' information

Wednesday

July 17

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| 9:00 AM – 9:40 AM | Keynote Lecture 3: <i>Self-sustaining Smouldering Destruction: A Novel Method for Remediating Soil Contaminated with Hazardous Industrial Liquids</i> Jason Gerhard University of Western Ontario, Canada |
| 9:40 AM – 10:00 AM | Coffee Break |
| 10:00 AM – 12:20 PM | |
| Session Name: Water Pollution and Treatment II | |
| Session Chairs: Dr. Shang-Shyng Yang & Dr. Khosi Ramachela | |
| 10:00 AM – 10:20 AM | Paper 55: <i>"Application of Porous Phosphate Heterostructures in Environmental Remediation"</i> Manuel Algarra , José Jiménez-Jiménez, Enrique Rodríguez-Castellon, Antonio Jiménez-López, Marco Lucas, Jose Peres |
| 10:20 AM – 10:40 AM | Paper 204: <i>"Combining AHP with GIS for Evaluation of Groundwater Vulnerability"</i> Aminreza Neshat , Biswajeet Pradhan, Helmi Zulhaidi Mohd Shafri, Mohsen Dadras, Haleh Nampak |
| 10:40 AM – 11:00 AM | Paper 201: <i>"Evaluating Management Strategies to Control Eutrophication in a Shallow Tropical Urban Lake"</i> Zikun Xing , Lloyd H.C. Chua, Jörg Imberger |

Session Chairs:
Dr. James Li

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| 11:00 AM – 11:20 AM | Paper 85: <i>"Wastewater Treatment by Absorption on Flake Graphite with Electrochemical Regeneration"</i> Michael G. Conti-Ramsden, S. Nadir Hussain, Nuria de las Heras, Edward P.L. Roberts , Nigel W. Brown |
| 11:20 AM – 11:40 AM | Paper 180: <i>"Physical heterogeneity and rain induced flushing on water quality variation and pollution control of stream"</i> Pattiyage I.A. Gomes, Wing H. O. Wai |
| 11:40 AM – 12:00 PM | Paper 101: <i>"Investigation of Various Contaminants in King Fahad Industrial Port, Saudi Arabia"</i> Assad A. Al-Thukair , Yousef A. Al-Khadem |
| 12:00 PM – 12:20 PM | Paper 109: <i>"The Environmental Impact of Illegal Refineries on the Vegetation of the Niger Delta"</i> Aminayanaba Asimiea , Godwin Omukhua |
| 12:20 PM – 1:20 PM | Lunch |
| 1:20 PM – 3:20 PM | |
| Session Name: Greenhouse Effect, Global Warming, and Climate Change | Session Chairs: Dr. Cornelia Tirla & Dr. Manuel Algarra |
| 1:20 PM – 1:40 PM | Paper 217: <i>"(3-Aminopropyl)triethoxysilane-montmorillonite for Carbon Dioxide Capture"</i> Saadia Nousir , Andrei-Sergiu Sergentu, Tze Chieh Shiao, René Roy, Abdelkrim Azzouz |
| 1:40 PM – 2:00 PM | Paper 56: <i>"Evaluation of Bacillus Strains for Phorbol Esters Degradation and Enzyme Production using Jatropha curcas Seed Cake as Substrate"</i> Chin-Feng Chang, Chih-Yi Lee, Kao-Yung Lin, Li-Yun Liu, Shang-Shyng Yang |

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| 2:00 PM – 2:20 PM | <p>Paper 92: <i>"CO₂ Sequestration by Direct Dry Gas-Solid Contact of Serpentinite Mining Residues: A Solution for Industrial CO₂ Emission"</i> Sanoopkumar Puthiya Veetil, Guy Mercier, Jean Francois Blais, Emmanuelle Cecchi, Sandra Kentish</p> |
| 2:20 PM – 2:40 PM | <p>Paper 162: <i>"Optimizing Financial Strategies for Environmental Pollution and Remediation Initiatives"</i> Michael Curley</p> |
| 2:40 PM – 3:00 PM | <p>Paper 157: <i>"An Overview of Climate Change Vulnerability and Adaptation in the Dry Savannah Ecosystems of sub-Saharan African Region"</i> Khosi Ramachela</p> |
| 3:00 PM – 3:20 PM | <p>Paper 219: <i>"Sandwich Fe₂O₃/Au/Fe₂O₃ photoanodes for enhanced photoelectrochemical water splitting"</i> Zheng Wang, Freddy Y.C. Boey, Say Chye Joachim Loo, Can Xue</p> |
| 3:20 PM – 3:40 PM | Coffee Break |
| 3:40 PM – 5:20 PM | |
| Session Name: Miscellaneous Topics | Session Chairs: Dr. Wing H. O. Wai & Dr. Michael Curley |
| 3:40 PM – 4:00 PM | <p>Paper 63: <i>"Development of an Economic and Efficient Biodiesel Production Process"</i> Cornelia Tirla, Rachel B. Smith, Thomas Dooling, Shanna Harrelson, Rebecca Panter</p> |
| 4:00 PM – 4:20 PM | <p>Paper 212: <i>"Cancer Clusters and New Jersey Superfund Sites"</i> Emily Walton, Faith Lenhart, Tait Chirenje</p> |
| 4:20 PM – 4:40 PM | <p>Paper 171: <i>"Effect of Crude Glycerol from Biodiesel Production on Performance of a Glycerol-Oxidizing Microbial Fuel Cell"</i> Jamie-lynn Sivell, Kathlyn Kirkwood</p> |

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| 4:40 PM – 5:00 PM | Paper 203: <i>"Development of Traffic Noise Prediction Model for National Highway Corridor in Hyderabad, India"</i> Kumar Molugaram, Gopal Naik Mudavath |
| 5:00 PM – 5:20 PM | Paper 215 <i>"Variables that effect perinatal outcomes among low income African American women: A mixed methodology"</i> Janette Wheat, Vanessa Carter |

Poster Session

July 16

10:00 AM – 12:20 PM

Paper 58: *"Investigation of watershed-scale surface water quality under changing land use conditions: a case study in Northern British Columbia"*

Gopal Chandra Saha, **Jianbing Li**, Siddhartho Shekhar Paul, Ronald W. Thring

Paper 61: *"Environmental protection based on organic waste material management by rural women's community empowerment"*

Mehdi Zarabi, Ahmad Firoozabadi, Zahra Khamseh (**Mohammad Sabour**)

Paper 67: *"Analysis and Successive Observation of 15 Trace Elements in Spring Water at Six Locations"*

Yumi Manaka, Masayuki Goto, Takehiko Kaneko, Tadashi Kuruhata, Koji Kishida, Chie Sato

Paper 76: *"Investigation of Impact Factors on the Treatment of Oily Sludge using a Hybrid Ultrasonic and Fenton's Reaction Process"*

Ju Zhang, **Jianbing Li**, Ronald W. Thring, Guangji Hu, Lei Liu

Paper 89: *"A non-target screening of semi-volatile organic contaminants in the surface water of the Liaohe River system"*

Donghong Wang

Paper 166: *"Experimental Studies on Electrokinetics behaviour in Areas Impacted by Metallic Ions"*

Ernesto Sumi, Raphael Hypolito, Daniela Gamito

Paper 167: *"Enhancement of Pd/ γ -Al₂O₃ catalyst in methane combustion by addition of Zr"*

Hongbo Na, Tianle Zhu, Yifei Sun, Hezhong Tian

Paper 169: *"Atmospheric Emissions of Arsenic and Cadmium from Coal-Fired Power Plants in China"*

Hezhong Tian, Kaiyun Liu, Chuanyong Zhu, Tianle Zhu, Fumo Yang, Yongliang Ma

Paper 173: *"Behaviour of Potassium, Sodium, Copper and Manganese Ions in Aquifers – Experimental Studies"*

Daniela Gamito, Raphael Hypolito, Ernesto Sumi

Paper 195: *"Pollution around Buildings due to Sandstorms"*

Mohamed Elhakeem, Omar Hussein, Umar Mirza

Paper 200: *"Study on Naturally Occurring Radioactive Materials in Groundwater in South Korea"*

MoonSu Kim, TaeSeung Kim, DoHwan Jeong

Paper 207: *"Lichens for biomonitoring Pb, Zn, Cr, Ni, V and Cd at the Caracas Valley - Venezuela"*

Raiza Fernández, Zully Aguilera de Benzo, Federico Galarraga

Paper 213: *"A Preliminary Study on Removal of Basic Dye (Astrozone Blue FGRL) using Oak Sawdust from Aqueous Solution"*

Nilgün Balkaya, Nazan Bükler, Burcu Türe Ergene

Paper 221: *"An overview on the influence of soil characteristics on the efficiency of soil remediation techniques"*

Müge Balkaya

Paper 227: *"Geographical Distribution & Reproductive biology of Uromastix ocellatus phillbyi in Saudi Arabia"*

Abdulaziz Alqahtani, Khaled Ghaleb