

Wednesday, 18 September 2024	Wednesday, 18 September 2024				
	2.80 Speaker Support: Foyer M 6.00 Exhibition and Poster Displays Open: Hall L Exhibition: Foyer M				
	PLENARY SESSION 3				
	Hall L				
	Welcome Day 3				
	9:30-10:00 Plenary Session 3: Plastics, Endocrine Disrupting Chemicals and Health: Effects on the Neuroendocrine System Natalia Fernandez, PhD, Associate Researcher, the Institute de Biología y Medicina Experimental, Argentina				
	10:00-10:30 Morning Tea and Poster Viewing - Hall L				
	CONCURRENT SESSION 7				
	10:30-12:15				
	Session 7A PFAS Risk and Toxicity				
Session 7B PFAS Bioacid					
Session 7C Legacy Contaminants					
Session 7D Recently Emerged and Emerging Contaminants					
Session 7E One Health and Communication					
Hall B					
City Room 1					
City Room 2					
City Room 3					
City Room 4					
10:30-10:45					
184 RISK-BASED BENCHMARKS AND OTHER CONSIDERATIONS FOR ECOLOGICAL RISK ASSESSMENT OF PFAS: Greg Gonyea, GSC Environment					
185 UNDERSTANDING AND MANAGEMENT OF PER AND POLYFLUORINATED SUBSTANCES (PFAS) IN BIOSOLIDS. Delgadillo/Professor Andrea Baez, BUST University					
186 HALF A CENTURY OF BLOOD/TOXIC PROGRESS ON RISK-BASED REMEDIATION: ABBEY AND DEWINTER TOOLS TO ACCELERATE. Paul/Nathalie, Lead Quality Management Ltd, Nottingham					
187 PROBLEM THAT DEFECTING LEADACY PROHIBITION CONTAMINATION USING PASSIVE SOL-GEL SAMPUNG 21					
188 ADVANCED MATERIALS AND MEMBRANES FOR ENHANCED MICROFILTRATION/ULTRAFILTRATION AND STRATEGIC FLOURING RESISTANCE. Dr. Massimo Zucchi, Eindhoven University of Technology					
189 DEVELOPING PFAS MEMBRANES THAT SUPPORT COMBINATION OF REDUCED AIR RISK AND RESPONSE. Mark Kalkreuth, Jacobs					
10:45-11:00					
10:30-11:15					
190 EMERGING CONTAMINANTS IN WATER INDUSTRY: CHALLENGES AND SOLUTIONS. Chantal, RABIER					
191 PFAS IN BIOSOLIDS: TRANSFER TO SOIL AND CROPS PRESENTS RISK TO CONSUMERS OF MEAT AND MILK. Samuel Stross, Minnesota Pollution Control Agency					
192 ASSESSING PFAS CHALLENGES IN WATER: VIGILANT RETURN OF PERFORMANCE FOR NORTH AMERICA AND AUSTRALIA. Ann DeLester, Veolia					
193 OCCURRENCE AND DISTRIBUTION OF MICROFILTRATION/ULTRAFILTRATION IN PASTURE AREAS. Dr. Nigam Suresh Nigam, Indian Institute of Technology (IIT) Bombay					
194 THE ART OF COMMUNICATING RISK TO COMMUNITIES: STRATEGIES FOR TECHNICAL PROFESSIONALS. Catherine, GDF SUEZ					
10:45-11:30					
195 IMPROVING GROUNDWATER TRANSITION - ARE WE THERE YET? DEAN AND SUE OF THE AIR, Mr. Simon, Scott, Australia					
196 EXPLORING THE FATE OF PFAS IN BIOSOLIDS: PROFILES THROUGH PRECIPITATION PLANT. Andrea, Sanyal, BUST University					
197 PFAS IN BIOSOLIDS: IS EVERYONE MEASURING THE SAME THING? MISSING FROM A "PROFICIENT" TESTING STUDY. Ms. Leticia, Airco, National Measurement Institute					
198 TOWARDS A RISK-BASED APPROACH TO THE TRANSFER OF SOIL CONTAMINATING AGENTS. Simon, Massey, Agon					
199 DISTRIBUTION AND RISK ASSESSMENT OF MICROFILTRATION/ULTRAFILTRATION IN AGRICULTURAL SOILS. Dr. Suresh Kumar, Karnataka, India					
200 HEAVY METAL: ENVIRONMENTAL PAST, PRESENT AND FUTURE. Dr. Suresh Kumar, Karnataka, India					
11:30-12:00					
201 INVESTIGATING THE TOXICITY OF PERFLUOROCARBOXYLIC ACID (PFCA) ON CROCODILEWATER SPECIES AND AMPHIBIANS. Dr. A					

POSTER PRESENTATIONS

12	P1	EXPLORING THE ECOLOGICAL RISK FOR METAL CONTAMINATION IN SEDIMENTS THROUGH THE APPLICATION OF DGT TECHNIQUE, Ms. Liang-Li Chang, Apollo Technology Co., Ltd.
19	P2	HUNTING THE SOURCE, Brad Dermody, Aurora Environmental
23	P3	INVESTIGATION OF MOBILE, RESIDUAL, AND ENTRAPPED LNAPL USING LASER-INDUCED FLUORESCENCE AS A LINE OF EVIDENCE, Dr Jonás García-Rincón, Legion Drilling
35	P4	OBSERVATIONS ON THE ROAD TO ENHANCING NSZD AT A PETROLEUM PIPELINE RELEASE SITE, Matt Rousseau, GHD
37	P5	DEGRADATION OF PER- AND POLYFLUOROALKYL SUBSTANCE (PFAS) IN AQUEOUS FILM FORMING FOAM (AFFF) AND FOAM FRACTIONATE BY ULTRASOUND., Mr Olalekan Simon Awoyemi, GCER, University of Newcastle
38	P6	ULTRASONIC DEFLUORINATION OF PFAS: EFFICIENCY VERSUS ABSOLUTE AMOUNT, Mr Olalekan Simon Awoyemi, GCER, University of Newcastle
43	P7	PFAS ANALYSIS ON THE SCIEX 7500 SYSTEM: 15 MONTHS OF ROBUSTNESS DATA, Dr Charlie Liu, SCIEX
45	P8	PEOPLE AND PFAS: QUANTITATION IN HUMAN SERUM AND BLOOD USING VOLUMETRIC ABSORPTIVE MICROSAMPLING (VAMS), Dr Charlie Liu, SCIEX
51	P9	LEAD ABATEMENT AND ISOLATION IN VULNERABLE COMMUNITIES, Dr Henry Ellis, Enviropacific
54	P10	DETERMINING THE SOURCE OF ODOUR FROM A STORMWATER DISCHARGE USING MULTIPLE LINES OF EVIDENCE APPROACH, Mr. Roderick Zhang, WSP Australia
72	P11	MANAGING THE RISK OF SAMPLING PFAS AT A CHLORINATED HYDROCARBON SITE, Sid Park, Jacobs
75	P12	REINFORCING THE NEED FOR A MIXED-GAS APPROACH TO OPTIMISE PFAS REMOVAL EFFICIENCY IN FOAM FRACTIONATION, Mr Justin Baulch, Evocra Pty Ltd
93	P13	MAKE YOUR OWN SUSTAINABLE AND GREEN LAB GRADE NITROGEN GAS, Dr Nicole Pendini, PEAK Scientific
102	P14	FARMERS' PERCEPTION REGARDING GREENHOUSE GAS EMISSIONS FROM RICE CULTIVATION IN BANGLADESH AND MITIGATION POTENTIAL, Mr Md Maruf BILLAH, Global Centre For Environmental Remediation
103	P15	SOIL VAPOUR CONCENTRATION PROFILING TO IDENTIFY CONTAMINANT SOURCE ZONES USING THE NEW HEADSPACE-IN-VIAL SAMPLING & ANALYSIS METHOD, Mr Adrian Heggie, WSP Australia
115	P16	"FOREVER EVOLVING" FOR "FOREVER CHEMICALS" NMI PFAS PROFICIENCY TESTING, Mark Lewin, National Measurement Institute
122	P17	THE MACHANO-CHEMICAL EFFECT OF BALL MILLING ON VARIOUS HALLOYSITE NANOTUBES AND THEIR CARBON CAPTURE PERFORMANCE, Mr Siavash Davoodi, University of Newcastle
128	P18	A NEW CLIMATE-CHANGE CONCERN: GROUNDWATER RISE AND GEOCHEMICAL AFFECTS FROM AN INCREASING SEA LEVEL AND INFLUENCE ON CONTAMINANT CONDITIONS, Scott Warner, University of Newcastle, Australia / BBJ Group USA
130	P19	CONTROLLED RELEASE NITROGENOUS FERTILIZER TO ENHANCE NUTRIENT USE EFFICIENCY, Anjuman Ara Rajonee, University of Newcastle
133	P20	VEOLIA LANDFILL LEACHATE PFAS TREATMENT JOURNEY, Don Kual, Veolia
139	P21	ROTUMA FUEL TERMINAL DEMOLITION - CHALLENGES IN REMOTE SITE REMEDIATION, Mr Isaac Segal, Kleinfelder
144	P22	HYDROCARBON RISK TO REMEDIATION – A PROPOSED BASEMENT DEVELOPMENT CASE STUDY, Kathleen Prohasky, ERM Australia Pty Ltd
146	P23	DEVELOPMENT OF AN ON-SITE THRESHOLD DETECTION TOOL FOR HYDROCARBON CONTAMINATION IN SOILS, Ms. Deeksha Beniwal, Ziltek
171	P24	FROM CONVENIENCE TO CONCERN: MICROPLASTIC SHEDDING BETWEEN BOTTLES AND CAPS IN CONSUMER PRODUCTS, Mr Siyuan Liu, University of Newcastle
179	P25	EFFECT OF SILICON NANOPARTICLES ON CADMIUM TRANSLOCATION AND YIELD OF RICE UNDER CADMIUM STRESS, Md Tofail Hosain, Global Centre For Environmental Remediation (GCER), The University of Newcastle
183	P26	UNDERSTANDING THE USE, OCCURRENCE, AND POTENTIAL RISKS OF JET FUEL ADDITIVES, Dr Chamila Samarasinghe (presented by Dr Yanju Liu), Global Centre for Environmental Remediation
185	P27	ANALYSIS OF JET FUEL ADDITIVES AND THEIR METABOLITES IN JET FUEL, GROUNDWATER AND SOIL BY GAS AND LIQUID CHROMATOGRAPHY – MASS SPECTROMETRY, Doctor Francisca Munyeza, University of Newcastle
195	P28	ECO-FRIENDLY AND ECONOMICALLY AFFORDABLE NANOENCAPSULATED PESTICIDE FORMULATION: A FRONTIER IN NEXT GENERATION AGRICULTURE, Dr Santosh Kumar Paul, The University of Newcastle, Australia
207	P29	ADDRESSING FOOD SAFETY IN URBAN AGRICULTURE, Dr Md Meftaul Islam, The University of Newcastle
208	P30	DEGRADATION OF HERBICIDES IN VARIED AUSTRALIAN SOILS: POSSIBLE IMPACTS ON NON-TARGET BIOTA, Aney Parven, The University of Newcastle

209	P31	HEAVY METAL CONTENT IN WATER, SOIL AND PLANT ADJACENT TO TEXTILE INDUSTRY, Ms Kamrun Nahar Mousomi, GCER, University of Newcastle, Australia
211	P32	ARE BIOPESTICIDES EFFECTIVE AGAINST BRINJAL PEST?, Fatima Farhana, GCER, University of Newcastle
215	P33	REMEDIATION OF HYDROPHOBIC SOILS USING MICROBIAL TREATMENT IN CONJUNCTION WITH BIOCHAR AND CLAY, Mrs. Naveeda Majid (presented by Dr Mezbaul Bahar), University of Newcastle
219	P34	SPATIAL VARIATION OF HEAVY METAL(LOID)S IN PADDY SOIL OF CKDU ENDEMIC AREA , Dr Mudalige Kulathunga (presented by Dr Ayanka Wijayawardena), crcCARE
222	P35	CARBAMAZEPINE TOXICITY IN LEMNA SP., Mrs Andrea Carpio, University of Newcastle
223	P36	INFLUENCE OF POLYETHYLENE AND POLYVINYL CHLORIDE MICROPLASTICS ON SEED GERMINATION OF BARLEY AND MUNG BEAN, Ms Tapati Roy, GCER, The University of Newcastle
228	P37	THE ROLE OF GEOCHEMISTRY AS A FUNCTION OF ALLUVIAL FAN AGING IN ORGANIC CARBON STABILISATION, Dr Amir Mohseni, University of Newcastle
232	P38	QUANTIFYING GROUNDWATER PROCESSES ALONG THE MURRAY VALLEY BY INTERPRETING TIME SERIES DATA USING IMPULSE RESPONSE FUNCTIONS, Dr Mark Hocking, Tetra Tech Coffey
242	P39	TRANSFORMATION OF PFAS-PRECURSORS BY CO-METABOLIC BACTERIA CULTURES RELEVANT TO AQUEOUS FILM FORMING FOAM (AFFF) SITES, Jessica LaFond, Texas Tech University
251	P40	ADSORPTION BEHAVIOR OF GLYPHOSATE TO SURFACE MODIFIED MONTMORILLONITE NANOCLOCKS, Mr Saifullah Omar Nasif, University of Newcastle
270	P41	USING A NUCLEAR ANALYSIS TECHNIQUE TO RAPIDLY SCREEN FOR PFAS IN FIBRE-BASED FOOD PACKAGING, Dr Armand Atanacio, Australian Nuclear Science and Technology Organisation
271	P42	PERFORMANCE EVALUATION OF PILOT-SCALE TRIAL OF PFAS REMEDIATION USING A SUBSURFACE HORIZONTAL REACTOR WITH MATCARE™ TECHNOLOGY , Mr Danidu Kudagamage, University of Newcastle
272	P43	DAPHNIDS AS A SURROGATE FOR ASSESSING THE TOXICITY OF WEATHERED HYDROCARBONS. , Dr Anithadevi Kenday Sivaram (presented by Prof. Megharaj Mallavarapu), The University of Newcastle
274	P44	CHALLENGES OF GREEN REMEDIATION: AN AFRICAN PERSPECTIVE, Dr Beatrice Otunola, University of The Witwatersrand
278	P45	NOVEL ENHANCED DEFLUORINATION OF PFAS BY BIOCHAR-ASSISTED ULTRASOUND COUPLING FERRATE: PERFORMANCE AND MECHANISM, Dr Yongjia Lei, Sichuan Agricultural University
280	P46	FATE AND BEHAVIOUR OF JET FUEL ADDITIVES IN SOIL, Dr Chamila Samarasinghe (presented by Dr Yanju Liu), Global Centre for Environmental Remediation
142	P47	UNVEILING THE PAST THROUGH HISTORICAL BUSINESS DIRECTORIES, Mr Howard Waldron, Lotsearch Pty Ltd
78	P48	THE USE OF DECISION UNIT MULTI-INCREMENT SAMPLING (DUMIS) AT A PAHS-CONTAMINATED SITE IN CHINA, Jing Song, Institute of Soil Science, Chinese Academy of Sciences
186	P49	LOW COST MACHANO-CHEMICAL SYNTHESIS OF ORGANOCLAYS FOR REMEDIATING PFOS AND METAL CO-POLLUTANTS, Dr Bhabananda Biswas, University of Newcastle
303	P50	TRANSFORMATION AND FATE AND BEHAVIOUR OF ZINC OXIDE NANOPARTICLES RELEASED FROM PERSONAL CARE PRODUCTS TO ENVIRONMENTAL WATERS, Anwar Khan, Global Centre for Environmental Remediation (GCER)
126	P51	MICROPLASTIC REMOVAL USING BIOCHAR DERIVED FROM LOW-COST AGRICULTURAL RESIDUES , Mr Aderemi Adeleye, University of Newcastle
305	P52	BIO-REACTIVE MATERIAL-SUPPORTED DELIVERY OF PHOSPHATE SOLUBILISING BACTERIA FOR SUSTAINABLE BIOFERTILIZERS, Rafique Uddin, Global Center for Environmental Remediation (GCER)
307	P53	EFFECTS OF MICROBUBBLE OZONATION PROCESS ON EFFLUENT FROM PAPER RECYCLING INDUSTRY WASTEWATER, Aaima Iftikhar, COMSATS University Islamabad