

CLEANUP 2024 PROGRAM

Sunday, 15 September 2024

Monday, 16 September 2024

Tuesday, 17 September 2024									
Exhibition and Poster Displays Open, Hall L									
Speaker Support - Foyer M									
Registration, Foyer M									
PLENARY SESSION 2									
Hall N									
9:00 - 9:15 Welcome Day 2									
9:15 - 10:00 Plenary Session 2: Anything But PFAS - Professor Mark Taylor, Chief Environmental Scientist and Executive Director, EPA, Victoria									
10:00 - 10:30 Morning Tea and Poster Viewing - Hall L									
CONCURRENT SESSION 4									
10:30 - 12:15									
Hall N									
City Room 1									
City Room 2									
City Room 3									
City Room 4									
10:30 - 10:45									
73 PFAS: MANAGEMENT STRATEGY VIEWED THROUGH A GLOBAL LENS, Dr. Rosa Gwinn, AECOM									
141 PHYTOREMEDIATION OF TCE BY EUCALYPTUS TREES, Mr Mark Chapman, Aecom Australia									
114 EDUCATION AND TRAINING FOR CONTAMINATED LAND PROFESSIONALS: TIME TO RISE OUR GAME!, Dr Sophie Wood, UTS									
10:45 - 11:00									
237 INNOVATIVE ENVIRONMENTAL REMEDIATION TECHNOLOGIES (INERT) FOR IMPROVING SOIL HEALTH, Dr Md Nazamuzam, GCER, University of Newcastle									
137 DETERMINING THE COST, TIME AND RISK INCLUDED IN A TRANSACTION FOR A CONTAMINATED LAND ASSET, Mr Noel Storan, Construction and Remediation Advisory Services Pty Ltd									
11:00 - 11:15									
62 HOW DOES EU'S POLICY FRAMEWORK TACKLE PREVENTION AND MANAGEMENT OF PFAS POLLUTION?, Dr Jussi Reinikainen, Finnish Environment Institute (Syke)									
57 OPTIMISING REMEDIAL OUTCOMES - USING NATURAL SOURCE ZONE DEPLETION AND GEOPHYSICAL SURVEYS TO SUPPLEMENT CONVENTIONAL SAMPLING FOR SITE CLOSE OUT, Mr Andre Smit, Ghd									
139 DATA VISUALISATION - SHINING A LIGHT ON SUBSURFACE DATA TO OPTIMISE REMEDIATION OPTIONS ASSESSMENT, Mr Abe Wright, CDM Smith									
11:15 - 11:30									
268 NEW TECHNOLOGIES TO DEGRADE PFAS TOWARD SITE APPLICATIONS, Cheng Fang, Ion									
123 PFAS MASS FLUX - A PLATFORM FOR DEVELOPING REALISTIC REMEDIAL GOALS AND SUSTAINABLE ACTION, Ms Rachael Casson, AECOM									
165 APPLICATION OF CLOUD-BASED DIGITAL ENVIRONMENTAL AUDITING TO SUPPORT A LARGE-SCALE REMEDIATION PROJECT, AND HOW IT COULD BE FURTHER ENHANCED THROUGH GENERATIVE AI, Mr Christian Walls, Cdm Smith									
11:30 - 11:45									
262 PFAS IN CHINA: OCCURRENCE, RISK, POLICIES AND MANAGEMENT, Pfas in China: Occurrence, Risk, Policies And Management Fang Wang, Institute of Soil Science, Chinese Academy of Sciences									
131 CLOSURE - WHEN IS ENOUGH ENOUGH? AN AUDITOR'S PERSPECTIVE FOR PFAS REMEDIATION, Jonathan Meese, CDM Smith									
24 PREDICTING PFAS FLUX AT COMPLEX INDUSTRIAL SITES - WHY IT CAN BE PAINFUL AND WHY WE DO IT ANYWAY!, Mr George Boyer, Aurecon									
186 LOW COST MACHANOCEMICAL SYNTHESIS OF ORGANOCATALYSTS FOR REMEDIATING PFOS AND METAL CO-POLLUTANTS, Dr Bhobananda Bawa, University Of Newcastle									
204 PREDICTION OF SALTWATER INTRUSION USING NUMERICAL AND SURROGATE MODELLING: CASE STUDY OF TACABE COASTAL AQUIFER, VANUATU, Mr Ashneel Shrivast, James Cook University									
11:45 - 12:00									
134 TREATMENT OF COMPLEX PFAS EFFLUENT (FRANCEAUS), Ms Carole Couder, Veolia									
224 BIORATIONAL PEST MANAGEMENT STRATEGIES: A PREVENTION TOOL OF CHEMICAL PESTICIDE HAZARD, Dr. Md Mahabub Rahman, Bangabandhu Sheikh Mujibur Rahman Agricultural University (Burmali)									
167 INTERACTION OF MCM-41 WITH IMIDACLOPRID TO REVEAL ITS MULTIFUNCTIONAL APPLICATION, Mr Safiullah Omar Nasif, University of Newcastle									
200 CHALLENGES IN CONSTRUCTING A RESIDENTIAL SUBDIVISION ON A LANDFILL - A CASE STUDY, Dr Ian Swane, Ian Swane & Associates									
12:00 - 12:15									
289 ADDRESSING PFAS CONTAMINATION IN INDIA: POLICY PROGRESS AND PATHWAY FORWARD, Dr Nilini Verma, Chitkara University									
257 A BRIEF OUTLOOK ON TECHNOLOGIES: CURRENT ISSUES & CHALLENGES, Dr Jayarany Vijayandharan, Forest Research Institute Malaysia									
10 AN ADVANCED DECISION SUPPORT TOOL TO FACILITATE PRELIMINARY TECHNICAL AND SUSTAINABILITY EVALUATION OF POTENTIAL REMEDIATION TECHNOLOGIES AT A CONTAMINATED SITE INVOLVING MULTIPLE CONTAMINANTS, Mr Louis Chan, The Hong Kong University of Science and Technology									
235 LANDFILL GAS MITIGATION TO FACILITATE DEVELOPMENT IN THE PERTH METROPOLITAN AREA, Ms Shondae Coleman, Australian Environmental Auditors									
12:15 - 13:15 Lunch and Poster Viewing - Hall L									
CONCURRENT SESSION 5									
13:15 - 14:15									
Hall N									
City Room 1									
City Room 2									
City Room 3									
City Room 4									
13:15 - 13:30									
292 PFAS POLICY UPDATE- UK, Paul Nathaniel, Land Quality Management Ltd Nottingham									
298 REMOVAL OF PER- AND POLYFLUOROALKYL SUBSTANCES FROM WASTEWATER VIA AEROSOL CAPTURE, Zoom Nguyen, CDM Smith									
234 UTILIZING RISK BASED SAMPLING METHODS COUPLED WITH FIELD INSTRUMENTS FOR NEAR REAL TIME REMEDIATION, Marvin Hestlet, Element Environmental									
284 REGENERATIVE REMEDIATION: ESG IN PRACTICE, Frank Sweet, AECOM									
13:30 - 13:45									
50 REGENERABLE ION EXCHANGE TREATMENT WITH HYDROTHERMAL ALKALINE TREATMENT (HAUT): FULL SPECTRUM PFAS CAPTURE AND DESTRUCTION, Steve Woodard, Emerging Contaminants Treatment Technologies									
231 A PFAS MASS FLUX STUDY AND ITS USE IN SITE MANAGEMENT, Alice Walker, Ghd									
145 MODELLING MONITORING AND DETECTING GROUNDWATER FLOW AND CONTAMINANT TRANSPORT AT MINE SITES - WITH POSSIBLE EXTENSION TO OTHER MINING APPLICATIONS, Dr. Bilal Datta, James Cook University, Townsville, QLD									
187 CELEBRATING THE WORLD'S MOST SUSTAINABLE GROUNDWATER REMEDY: THE PERMEABLE REACTIVE BARRIER AT 30 YEARS, Scott Warner, University of Newcastle, Australia / BSI Group USA									
14:00 - 14:15									
88 UNITED STATE ENVIRONMENTAL PROTECTION AGENCY FINAL PFAS NATIONAL PRIMARY DRINKING WATER REGULATION, Susan Schow, Retired, State of Maine Health Data Organization									
236 NATURE INSPIRED INNOVATION: LONG-TERM MANAGEMENT OF PFAS CONTAMINATED WATER USING FLOATING WETLANDS, Dr John Awad, Cairo									
203 POLICY CHALLENGES RELATED TO DIFFUSE POLLUTION - CASE PFAS, Dr Jussi Reinikainen, Finnish Environment Institute (Syke)									
243 ANTIMONY (V) COPRECIPITATION WITH SCHWERTMANNITE IN ACID-SULFATE SYSTEMS, - Mohammad Rategat, Southern Cross University									
56 A CASE STUDY: INVESTIGATION AND REMEDIATION OF IMPACTED SOIL AND GROUNDWATER ON A MAJOR PETROLEUM HYDROCARBON AND CHEMICAL STORAGE AND DISTRIBUTION TERMINAL IN VICTORIA FOR REDEVELOPMENT AS NON-SENSITIVE COMMERCIAL LAND USE, Mrs Nina Nival, Australian Environmental Auditors									
14:15 - 14:30									
129 PFAS Policy Update in Australia, Dr Shaun Thomas, Principal Advisor Wastewater, Compliance and Regulatory Practice Branch EPA South Australia									
249 DILUTION IS THE SOLUTION TO THE POLLUTION (EQUATION), Mr Iyden Tiddy, Telco Tech Coffey									
59 HOMEMADE COPPER-SILVER PLATES AS AN ALTERNATIVE FOR CLEANING MERCURY-CONTAMINATED TAILINGS FROM ARTISANAL AND SMALL-SCALE GOLD MINING IN COLOMBIA, Mr. Alfonso Rodriguez, Pure Earth									
117 ASSESSMENT OF IMPACT LEVELS FOR EFFECTIVE REHABILITATION OF THE OIL-POLLUTED MANGROVE SHORELINE OF OGONOLAND, NIGERIA, PROFESSOR NENIBARNI TABBEY, Hydrocarbon Pollution Remediation Project (hyprop)									
14:30 - 14:45									
85 ASSESSMENT OF PER- AND POLYFLUOROALKYL SUBSTANCES (PFAS) CONTAMINATION IN DRINKING WATER SOURCES IN INDUSTRIAL AREAS (BADO) OF HIMACHAL PRADESH, INDIA, Dr Nilini Verma, Chitkara University									
110 BACKGROUND AND BASELINE - UNRAVELLING THE DIFFERENCES AND IMPLICATIONS, Ms Dana Windle, ERM Australia									
220 GRAVIMETRIC FIELD ESTIMATION OF RADIOACTIVITY IN SOILS AT A NORM IMPACTED SITE, Matthew Crow, ERM Australia Pty Ltd									
11 THE ROLE OF SURFACTANTS (BRU 35 AND TWEEN 80) IN ELECTROCHEMICAL REMEDIATION OF POLYCYCLIC AROMATIC HYDROCARBONS FROM A NATURAL SOIL, Ms Seidghem Mohammadi, Southern Cross University									
14:45 - 15:15 Afternoon Tea and Poster Viewing - Hall L									
CONCURRENT SESSION 6									
15:15 - 17:00									
Hall N									
City Room 1									
City Room 2									
City Room 3									
City Room 4									
15:15-15:30									
84 CONTAMINATED MINING SITE RISK ASSESSMENT AND BROWNFIELD REUSE IN NORTHERN TAIWAN, Mr. Yun-Jie Lai, Apollo Technology Co., Ltd.									
287 PFAS IN DRINKING WATER: CHALLENGES WITH IMPLEMENTING THE NEW US REGULATIONS, - Tamara Macbeth, CDM Smith									
294 LET'S STOP THE WHACK-A-MOLE APPROACH TO EMERGING CONTAMINANTS, Dr Shaily Mathandaa, University of California									
15:30 - 15:45									
114 ABANDONED MINE TAILING DUMPS SITE FUGITIVE DUST PROBLEMS, PHYTOCAPS AND OPTIONS FOR SUSTAINABLE REMEDIATION: A CASE OF DAMIEN ABANDONED MINE SITE IN CENTRAL NAMIBIA, Mr Tshivute Iipinge, Namibia University of Science and Technology									
Sustainable Bioremediation in Remote South Australia, Ms Natalie Newman, EHS Support Pty Ltd.									
210 TREATMENT OF SALINE EFFLUENT FROM COAL COMBUSTION ASH IMPOUNDMENTS: CASE STUDY OF PILOT-SCALE MINERAL RECOVERY FROM SALINE WATER OF AN ASH IMPOUNDMENT IN SOUTH AUSTRALIA, Dr Akshay Anand, Paci Renewables Pty Ltd									
15:45 - 16:00									
89 THE PRECAUTIONARY PRINCIPLE - HAS IT HELPED OR HINDERED COMMUNICATING AND MANAGING PFAS RISKS?, Mr Andrew Thomas, GHd Pty Ltd									
27 MATERIALS AND PROCESSES FOR PHOTOCATALYTIC DESTRUCTION OF PERSISTENT ORGANIC POLLUTANTS, Dr Cameron Sheares, The University of Adelaide									
15 ASSESSMENT OF hydraulic profiling tool (HPT) results as part of a conceptual site model, Annaliese Murdoch, GHd									
201 MICRO-/NANOPLASTICS IN OUR DAILY LIVES, Cheng Fang, Ion									
16:00 - 16:15									
275 REGENERATIVE REMEDIATION: GENERATING SUSTAINABLE POST-REMEDIATION HUMAN AND ECOLOGICAL VALUE FROM IMPAIRED PROPERTIES, JOHN BLEIER, AECOM									
48 TREATMENT OF A 4 MLD LAGOON SYSTEM POTW EFFLUENT TO PFAS DRINKING WATER STANDARDS USING FOAM FRACTIONATION, Mr Steve Woodard, Emerging Contaminants Treatment Technologies									
26 DISCHARGE OF MICROPLASTICS AND PLASTIC ADDITIVES FROM MUNICIPAL SOLID WASTE OPEN DUMPS INTO THE ENVIRONMENT, Professor Mathitika Vithanage, Ecosphere Resilience Research Center, University of Sri Jayewardenepura									
200 RAPID ASSESSMENT AND REMEDIATION OF AN AIRCRAFT CRASH SITE ON TWO ISLANDS, NT, Mr Darren Skuse, Jacobs									
16:15 - 16:30									
190 MINECARE: ADVANCED SOFTWARE SOLUTIONS FOR MANAGING CONTAMINATED MINE SITES, Dr Liang Wang, The University Of Newcastle									
49 FOAM FRACTIONATION COUPLED WITH HYDROTHERMAL ALKALINE TREATMENT FOR REMEDIATION OF A PFAS-IMPACTED FIRE TRAINING POND, Charles Gordon, Emerging Contaminants Treatment Technologies									
36 FROM START TO FINISH (And a little bit in between) - Monique Hitchens, ADE Consulting Group									
36 IMPACTS OF MUNICIPAL SOLID WASTE MANAGEMENT ON LAGOON GARBAGE: A CASE STUDY OF THAI NOI, THAILAND, Preeanart Kiddee, Department of Biological and Environmental Sciences, Faculty of Science and Digital Innovation, Thaksin University									
198 REAL-TIME SOIL ASSESSMENT: REMSCAN IN KUWAIT'S ENVIRONMENTAL REMEDIATION PROGRAM, Dr Sean Manning, Ethek									
16:30 - 16:45									
253 ESG-DRIVEN ENVIRONMENTAL RISK ASSESSMENTS: IMPORTANCE OF ECOLOGICAL RECEPTORS FOR ACHIEVING UNSDGs, - Abinandan Suthanarum, The University of Newcastle									
61 ELECTROCHEMICAL OXIDATION FOR ONSITE PFAS DESTRUCTION, Katie Henderson, Ovivo									
40 Fieldwork Survival Guide: Strategies for Health and Mental Resilience - Chiel van Rensburg, GHd									
40 PFAS IN DUST MEASUREMENT - ENVIRONMENTAL AND OCCUPATIONAL CONSIDERATIONS, Tim Dawle, ADE Consulting Group									
52 EVOLUTION OF A CSM - WHEN PLUMES COLLIDE USING MULTIPLE LINES OF EVIDENCE TO ASSESS THE INTERACTION OF A CHLORINATED HYDROCARBON AND A PETROLEUM HYDROCARBON PLUME IN A FRACTURED ROCK AQUIFER, Mr Ben Korkelev, Skantec									
16:45 - 17:00									
112 INFLUENCES OF LAYERED SILICATE MINERALS ON THE RUMEN ECOSYSTEM FOR METHANE INHIBITION, Zubair Hosen, University of Newcastle, NSW, Australia									
16 REGENERABLE RESIN FOR PFAS REMOVAL - 5 YEARS LATER ... WHAT WE'VE LEARNED, Dr. David Kempisty, Ec2									
301 Q&A and Open discussion									
158 STARTING AT THE END: OPTIMISING ENHANCED IN-SITU BIOREMEDIATION FOR TCE, Mr Abe Wright, CDM Smith									
18:30 - 19:00 Pre-dinner drinks									
19:00 - 23:30 Gala Dinner - Panorama Ballroom									

Wednesday, 18 September 2024

Exhibition and Poster Displays Open - Hall L											
Speaker Support, Foyer M											
Registration, Foyer M											
PLENARY SESSION 3											
Hall N											
9:00 - 9:15 Welcome Day 3											
9:15-10:00 Plenary Session 3: Plastics, Endocrine Disrupting Chemicals and Health: Effects on the Neuroendocrine System Marina Fernandez, PhD, Associate Researcher, The Instituto 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 Biosolid		Session 7C Legacy Contaminants		Session 7D Recently Emerged and Emerging Contaminants		Session 7E One health and communication	
Hall N		City Room 1		City Room 2		City Room 3		City Room 4			
10:30 - 10:45		194 RISK-BASED BENCHMARKS AND OTHER CONSIDERATIONS FOR ECOLOGICAL RISK ASSESSMENT OF PFAS , Greg Garvey, GSI Environment		290 UNDERSTANDING AND MANAGEMENT OF PER AND POLYFLUORINATED SUBSTANCES (PFAS) IN BIOSOLIDS, Distinguished Professor Andrew Ball, RMIT University		291 HALF A CENTURY OF SLOOOOW PROGRESS ON RISK BASED REMEDIATION - LESSONS AND OPPORTUNITIES TO ACCELERATE, Paul Nathanson, Land Quality Management Ltd Nottingham		82 CHARACTERIZATION AND ECOLOGICAL RISK ASSESSMENT OF MICROPLASTICS IN SEDIMENTS OF A TROPICAL WEST AFRICAN LAGOON ECOSYSTEM, Professor Lucian Chikwue, University of Lagos, Lagos - Nigeria		260 EFFECTIVE COMMUNICATION OF RISK - TO COMMUNITIES AFFECTED BY SOIL CONTAMINATION, Michael Stoforad, ANCCOED	
10:45 - 11:00											
11:00 - 11:15		39 EMERGING CONTAMINANTS IN WASTE INDUSTRY- CHALLENGES AND SOLUTIONS, Gus Martins, HUSKER Australia		120 PFAS IN BIOSOLIDS: TRANSFER TO SOIL AND CROPS PRESENTS RISKS TO CONSUMERS OF BEEF AND MILK, Summer Streets, Minnesota Pollution Control Agency		44 FROZEN IN TIME: DETECTING LEGACY HYDROCARBON CONTAMINATION USING PASSIVE SOIL GAS SAMPLING AT WILKES STATION, EAST ANTARCTICA, Kathryn East, Australian Antarctic Division		79 ADVANCED MATERIALS AND MEMBRANES FOR ENHANCED MICROPLASTIC/NANOPLASTIC AND SYNERGISTIC FOULING RESISTANCE, Dr Masoumeh Zargar, Edith Cowan University		70 DEVELOPING FRAMEWORKS THAT SUPPORT COMMUNICATION OF INDOOR AIR RISK AND RESPONSE , Met kanisilana Jacobs	
11:15 - 11:30		136 ADDRESSING PFAS CHALLENGES IN WATER: VEOLIA RETURN OF EXPERIENCE IN NORTH AMERICA AND AUSTRALIA, Mr Matt East, Veolia		283 EXPLORING THE FATE OF PFAS IN BIOSOLIDS PYROLYSIS THROUGH PYRICO PILOT PLANT, Aravind Sarapaneni, RMIT University		264 POTENTIAL OF BUSHFIRES ON THE MINERALOGICAL TRANSFORMATION OF MOST USED ASBESTOS, Gish Chappadi, GCSER		101 MACHINE LEARNING APPROACHES FOR PREDICTING MICROPLASTIC POLLUTION IN PEATLAND AREAS, Dr. Huu Tuan Tran, Thai Nguyen University Of Agriculture And Forestry (tuaf), Vietnam		174 THE ART OF COMMUNICATING RISKS TO COMMUNITY: STRATEGIES FOR TECHNICAL PROFESSIONALS, Mr Drew Morgan, GHD Pty Ltd	
11:30 - 11:45		144 BRIDGING FARM TO FARM TRANSITION - ARE WE DONE YET? STATUS AND STATE OF THE ART, Peter Storch, Accedis Australia Pacific								297 ASSESSING THE IMPACT OF HEAVY CHEMICAL FERTILIZER USE ON SOIL HEALTH IN CAMEROON, Indana Georges Caribala, University of Dschang	
11:45 - 12:00		176 INVESTIGATING THE TOXICITY OF PERFLUOROOCTANE SULFONIC ACID (PFOS) ON GROUNDWATER ISOPODS AND AMPHIPODS, Dr M.A. Ayupika Wijayawardana, The University of Newcastle and cicCare		107 KEY PFAS LAND USES IN THE YANGTZE RIVER DELTA OF CHINA: IMPLICATIONS FOR ENVIRONMENTAL MANAGEMENT PRIORITIES, Dr. Yuanqun Cheng, Suzhou University of Science and Technology		28 TOWARDS A RISK-BASED APPROACH TO THE TRANSPORT OF SOIL CONTAINING ASBESTOS, Simon Mason, Argon Environmental		124 CARBAMAZEPINE AND ELEMENTAL CONCENTRATION IN EFFLUENT WATER OF WASTEWATER TREATMENT PLANTS THAT FITS IN RECENT EMERGED AND EMERGING CONTAMINANT (DRUGS), Kenneth Sagan, Department Of Marine And Environmental Sciences		296 HEAVY METAL IN INDOONESIAN PADDY SOILS: STATUS AND IMPLICATION TO ONE HEALTH, Thy Suberman, National Research and Innovation Agency	
12:00 - 12:15		131				192 BIOACCESSIBILITY AND HEALTH RISK ASSESSMENT OF ARSENIC IN CHILDREN'S DIETS FROM ARSENIC ENDEMIC AREA IN BANGLADESH, A/Prof Mohammad Mahmudur Rahman, The University of Newcastle		168 DISTRIBUTION AND RISK ASSESSMENT OF MICROPLASTICS IN AGRICULTURAL SOILS, Ms Karthika Sangildura, Tamil Nadu Agricultural University		254 EFFECTIVE RISK COMMUNICATION: WHAT DOES IT TAKE?, Dr Kate Hughes, Ecology Data Bank Services	
12:15 - 13:15 Lunch and Poster Viewing - Hall L											
CONCURRENT SESSION 8											
13:30 - 15:00		Session 8A PFAS Risk and toxicity		Session 8B Waste and Circular economy		Session 8C Legacy Contaminants		Session 8D Recently Emerged and Emerging Contaminants		Session 8E Risk Characterisation including Bio Availability	
Hall N		City Room 1		City Room 2		City Room 3		City Room 4			
13:15 - 13:30		208 USE OF RISK-BASED SAMPLING METHODS AND "TOTAL PFAS RISK" TO EXPEDITE ASSESSMENT AND REMEDIATION OF PFAS-CONTAMINATED SITES, Roger Brewer, Hawaai Department Of Health		299 WHAT'S UBIQUITOUS AND OPAQUE? A DISCUSSION OF CIRCULAR ECONOMY, ESG AND WASTE, Nate Smith, Tellus Holding Group		175 MANAGING PERSISTENT ORGANIC POLLUTANTS (POPS): LEGACY POPS, EMERGING CHEMICALS, PLASTICS, AND HOUSEHOLD DIRTY DOZEN, Prof Ming Hung Wong, The Education University of Hong Kong		247 LIVING WITH CHEMICALS: UNDERSTANDING THE SOURCES AND RISK FROM CONTAMINANTS IN HOMES AND GARDENS, Kara Fry, Environment Protection Authority Victoria		119 MINNESOTA'S APPROACH TO DERIVATION OF PFAS CRITERIA FOR THE PROTECTION OF HUMAN HEALTH, Summer Streets, Minnesota Pollution Control Agency	
13:30 - 13:45											
13:45 - 14:00		199 MANAGING PFAS RISK IN FIRE SAFETY THROUGH SUSTAINABLE APPROACH IN PETRONAS DOWNSTREAM, Dal Raq Singh Sandhu, Petronas Chemical Methanol Sdn Bhd		230 ESTABLISHING BASELINE CONTAMINATION OF MICROPLASTICS IN ORGANIC WASTES, Dr Mike Williams, Ciro		99 DEVELOPMENT OF AN ADAPTIVE FRAMEWORK FOR OPTIMIZING BIODEGRADATION IMPLEMENTATION AT A FRACTURED BEDROCK CHLORINATED SOLVENT DNAPL SITE, Dr Matthew Lee, Geosyntec		213 EXTRACTION OF GLYPHOSATE AND AMINOMETHYLPHOSPHONIC ACID FROM CONTRASTING AUSTRALIAN SOILS , Miss W.arpun P. Welthyra, GCSER, University of Newcastle		25 THIRSTY WORK: CLIMATE-DEPENDENT STOCK WATER SCREENING LEVELS FOR THE BROAD PFAS FAMILY, Katie Richardson, Servpro	
14:00 - 14:15		276 ADDRESSING KEY UNCERTAINTIES IN RISK ASSESSMENT THROUGH THE LATEST SAMPLING AND ANALYTICAL METHODS FOR CONCRETE IMPACTED BY PFAS AT FIRE TRAINING AREAS, Mr Gerard Grant, ALS		33 TOWARDS SUSTAINABLE WASTE MANAGEMENT: UNDERSTANDING HEAVY METAL ENRICHMENT IN MSWI BOTTOM ASH, MSc Thomas Kremlicka, Montanuniversität Leoben		83 OPTIMIZING CHEMICAL FIXATION TECHNIQUES FOR EFFECTIVE LEAD IMMOBILIZATION IN GARNET WASTE, Miss Emily Bloomfield, Veolia Environmental Services		214 ADVANCES IN THE IDENTIFICATION OF DIFFERENT TYPES OF ASBESTOS: AN ANALYTICAL APPROACH, Dr Sajanand Gopalan, CRC CARE/GCSER, The University of Newcastle		58 MEASURING THE IMPACT OF BIO-ACCESSIBLE HMS ON COOKED RICE FROM CHROMITE-ASBESTOS MINE WASTE CONTAMINATED SOIL: PREDICTING ANTHROPOGENIC AND DIETARY RISK BY EMPLOYING MODELS, Ms SONALI BANERJEE, Indian Statistical Institute	
14:15 - 14:30		90 ASSESSING THE DISTRIBUTION AND ENVIRONMENTAL RISK OF PFAS AT A HISTORICAL CONCRETE PAD, Dr Matthew Asteland, Ade Consulting Group Pty Ltd		173 CLOSING THE LOOP ON NAPPIES: AN AUSSIE TRIAL, Dr Anu Kumar, CSIRO		189 CO-SORPTION OF ANTIMONY AND METALS ONTO IRON MINERALS, Ms Bridie Clelland, Gcer		216 ASSESSING THE RISK OF CONTAMINANTS OF EMERGING CONCERN IN WASTEWATER USING EFFECTS-BASED METHODS, Hung Tan, EPA Victoria		143 ASSESSING PFAS RISK FROM SITE SOURCES -- A MASS FLUX APPROACH COMPARED TO BIOTA CONCENTRATION DATA, Kathleen Prohasky, ERM Australia Pty Ltd	
14:30 - 14:45		18 REDUCING PFAS LOADS IN STORMWATER AT A FUEL TERMINAL, Mr Stuart Denham, Aurecon		34 SELECTIVE GENERATION OF PHYSICAL SEPARATION TRAITS FOR PROCESSING MATERIAL FROM LANDFILL , Dipl.-Ing. Paul Demichar, Montanuniversität Leoben		22 ADVANCES IN THE CHARACTERISATION AND REMEDIATION OF URBAN-CONTAMINATED SITES: INSIGHTS FROM A COLLABORATIVE EFFORT, Dr Jorda Garcia-Rincón, Legion Drilling		126 MICROPLASTIC REMOVAL USING BIOCHAR DERIVED FROM LOW-COST AGRICULTURAL RESIDUES , Mr Aderemi Adeleye, University Of Newcastle		149 VAPOUR INTRUSION RISK ASSESSMENT -- DO YOU HAVE THE RIGHT DATAT?, Mr Ken Kiefer, ERM	
14:45 - 15:00		295 BIOAVAILABILITY OF PFOA, PFHxS AND PFOS IN SOIL: METHOD DEVELOPMENT AND RECOMMENDATIONS: IN VIVO STUDY, Luchun Duan, University of Newcastle		44 OUTCOMES-BASED FINANCING FOR PLASTIC WASTE MANAGEMENT , Mr Steve Hardman, Plastic Collective		164 ASBESTOS IN THE SOUTH PACIFIC: CLEAN-UP AND RISKS DURING NATURAL DISASTERS, Mr Avin Chand, The University of The South Pacific		248 EMERGING CONTAMINANTS IN CROPS IRRIGATED BY RECYCLED WASTEWATER, Dr Sijig Li, CSIRO		244 SOIL BIOAVAILABILITY - THE MISSING (BUT POWERFUL) STEP, Dr Belinda Goldsworthy, enri&s	
15:00 - 15:30 Afternoon Tea and Poster Viewing - Hall L											
PLENARY SESSION 4											
Hall N											
15:30 - 16:15 Plenary Session: Preventing and managing soil contamination: the EU approach. Dr Bono Peeters Policy officer - Soil Team Directorate-General for Environment of the European Commission, Brussels (Virtual)											
16:15 - 16:45 Conference Closing - Award Presentations, Delegate Prize Announcements, Closing remarks											

Thursday, 19 September 2024

9:00 - 10:30		City Room 3	
11:00 - 12:30		PFAS Research Symposium (Invite only) City Rooms 1-3	
13:30 - 15:00		Technical Tour departing from West entrance of Adelaide Convention Centre (Meet at 8:30am for a 9:00AM departure)	
15:30 - 17:00			

POSTER PRESENTATIONS

7	P1	ECO-TECHNOLOGICAL APPROACHES BY FREE-FLOATING PLANTS AND MICROBIAL ELECTROCHEMICAL PROCESSES FOR THE SUSTAINABLE BIOREMOVAL OF POLLUTANTS AND RECOVERY OF NUTRIENTS FROM WASTEWATER, Dr. Usharani Rathinam Krishnaswamy, Department of Civil & Environmental Engineering, UNESP, Sao Paulo State University, Bauru, SP, Brazil
12	P2	EXPLORING THE ECOLOGICAL RISK FOR METAL CONTAMINATION IN SEDIMENTS THROUGH THE APPLICATION OF DGT TECHNIQUE, Ms. Liang-Li Chang, Apollo Technology Co., Ltd.
17	P3	TANTALUM-BASED METAL OXIDES FOR THE PHOTOCATALYTIC DEGRADATION OF PFAS, Miss Rachael Matthews, The University Of Adelaide
19	P4	HUNTING THE SOURCE, Mr Darko Mikic, Aurora Environmental
23	P5	INVESTIGATION OF MOBILE, RESIDUAL, AND ENTRAPPED LNAPL USING LASER-INDUCED FLUORESCENCE AS A LINE OF EVIDENCE, Dr Jonás García-Rincón, Legion Drilling
35	P6	OBSERVATIONS ON THE ROAD TO ENHANCING NSZD AT A PETROLEUM PIPELINE RELEASE SITE, Matt Rousseau, GHD
37	P7	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	P8	ULTRASONIC DEFLUORINATION OF PFAS: EFFICIENCY VERSUS ABSOLUTE AMOUNT, Mr Olalekan Simon Awoyemi, Gcer, University Of Newcastle
43	P9	PFAS ANALYSIS ON THE SCIEX 7500 SYSTEM: 15 MONTHS OF ROBUSTNESS DATA, Dr Charlie Liu, SCIEX
45	P10	PEOPLE AND PFAS: QUANTITATION IN HUMAN SERUM AND BLOOD USING VOLUMETRIC ABSORPTIVE MICROSAMPLING (VAMS), Dr Charlie Liu, SCIEX
51	P11	LEAD ABATEMENT AND ISOLATION IN VULNERABLE COMMUNITIES, Dr Henry Ellis, Enviropacific
54	P12	DETERMINING THE SOURCE OF ODOUR FROM A STORMWATER DISCHARGE USING MULTIPLE LINES OF EVIDENCE APPROACH, Mr. Roderick Zhang, WSP Australia
68	P13	SOLID ORGANIC ACID DELIMING TO REDUCE NITROGENOUS COMPOUND IN TANNERY WASTEWATER, Ms. Sakina Islam, Khulna University of Engineering & Technology
72	P15	MANAGING THE RISK OF SAMPLING PFAS AT A CHLORINATED HYDROCARBON SITE, Sid Park, Jacobs
74	P16	SC-PFAS REMOVAL BY CATIONIC FUNCTIONALISED FLAX, Miss Shailja Data, University of Auckland
75	P17	REINFORCING THE NEED FOR A MIXED-GAS APPROACH TO OPTIMISE PFAS REMOVAL EFFICIENCY IN FOAM FRACTIONATION, Mr Justin Baulch, Evocra Pty Ltd
93	P18	MAKE YOUR OWN SUSTAINABLE AND GREEN LAB GRADE NITROGEN GAS, Dr Nicole Pendini, Peak Scientific
102	P19	FARMERS' PERCEPTION REGARDING GREENHOUSE GAS EMISSIONS FROM RICE CULTIVATION IN BANGLADESH AND MITIGATION POTENTIAL, Mr Md Maruf BILLAH, Global Centre For Environmental Remediation
105	P20	STABILIZATION AND REDUCTION OF THE SHORT- AND LONG-CHAIN PER- AND POLY-FLUOROALKYL SUBSTANCES IN CONTAMINATED SOIL, Dr Rahim Shahrokhi, Seoul National University
103	P21	SOIL VAPOUR CONCENTRATION PROFILING TO IDENTIFY CONTAMINANT SOURCE ZONES USING THE NEW HEADSPACE-IN-VIAL SAMPLING & ANALYSIS METHOD, Mr Adrian Heggie, WSP Australia
115	P22	"FOREVER EVOLVING" FOR "FOREVER CHEMICALS" NMI PFAS PROFICIENCY TESTING, Mark Lewin, National Measurement Institute
122	P23	THE MACHANOCHEMICAL EFFECT OF BALL MILLING ON VARIOUS HALLOYSITE NANOTUBES AND THEIR CARBON CAPTURE PERFORMANCE, Mr Siavash Davoodi, University Of Newcastle
123	P24	COAL AND COAL COMBUSTION BYPRODUCTS AND ENVIRONMENTAL ISSUES THAT FITS IN IN LEGACY CONTAMINANTS (TOXIC METALS), Kenneth Sajwan, Department Of Marine And Environmental Sciences
128	P25	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	P26	CONTROLLED RELEASE NITROGENOUS FERTILIZER TO ENHANCE NUTRIENT USE EFFICIENCY, Anjuman Ara Rajonee, University of Newcastle
133	P27	VEOLIA LANDFILL LEACHATE PFAS TREATMENT JOURNEY, Don Kuai, Veolia
139	P28	ROTUMA FUEL TERMINAL DEMOLITION - CHALLENGES IN REMOTE SITE REMEDIATION, Mr Isaac Segal, Kleinfelder

144	P29	HYDROCARBON RISK TO REMEDIATION – A PROPOSED BASEMENT DEVELOPMENT CASE STUDY, Kathleen Prohasky, ERM Australia Pty Ltd
146	P30	DEVELOPMENT OF AN ON-SITE THRESHOLD DETECTION TOOL FOR HYDROCARBON CONTAMINATION IN SOILS, Ms. Deeksha Beniwal, Ziltek
147	P31	ARSENIC CONTAMINATION IN A CREEK ADJACENT TO A FORMER GOLD MINING: PHU LEK, LOEI PROVINCE THAILAND, Assoc. Prof. Netnapid Tantemsapya, Suranaree University Of Technology
148	P32	PFAS IN THE VADOSE ZONE – A CONCEPTUAL MODEL: PART 1 KEY PROCESSES THAT REQUIRE CONSIDERATION, Dr. Peter Beck, Ghd Pty. Ltd.
150	P33	PFAS IN THE VADOSE ZONE – A CONCEPTUAL MODEL: PART 2 APPICATION TO AUSTRALIAN SOILS, Dr. Peter Beck, Ghd Pty. Ltd.
154	P34	CARBON STOCK STATUS AND ITS ECOSYSTEM SERVICES VALUATION OF SOIL UNDER MAIZE - WHEAT - MUNG BEAN CROPPING SYSTEM OF LONG-TERM CONSERVATION AGRICULTURE FIELDS, Dr. GK Dinesh, SRM College of Agricultural Sciences
156	P35	UNLOCKING THE POTENTIAL OF VERMICOMPOST: ENHANCING SOIL HEALTH AND MITIGATING POLLUTION, Ms. Monika Mahajan, Banaras Hindu University
157	P36	UNDERSTANDING THE SOURCES, TOXICITY, RISK ASSESSMENTS AND REMEDIATION OF MERCURY - CONTAMINATED SOILS – A LOOK AT THE CURRENT APPROACHES., Ms Sofia B Shah, USP
161	P37	CHEMICAL ANALYSIS OF RECYCLED RUBBER FROM END-OF-LIFE TYRES: IMPLICATIONS FOR CIRCULAR ECONOMY, Dr Divina Angela Navarro, Csiro Environment
171	P38	FROM CONVENIENCE TO CONCERN: MICROPLASTIC SHEDDING BETWEEN BOTTLES AND CAPS IN CONSUMER PRODUCTS, Mr Siyuan Liu, University of Newcastle
172	P39	ZEOLITE SYNTHESIS FROM COAL FLY ASH FOR CO2 CAPTURE AND UTILISATION, Dr Md Rashidul Islam, The University of Newcastle
178	P40	PFAS CONTAMINATION IN POULTRY FARMS, Roheela Yasmeen, Lahore Garrison University
179	P41	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, Callaghan, Nsw 2308, Australia
181	P42	VARIETAL DIFFERENCE IN GRAIN TOTAL AND SPECIATED ARSENIC CONCENTRATIONS OF IRRIGATED RICE IN BANGLADESH, Mr Md Imran Ullah Sarkar, The University Of Newcastle
183	P43	UNDERSTANDING THE USE, OCCURRENCE, AND POTENTIAL RISKS OF JET FUEL ADDITIVES, Dr Chamila Samarasinghe, Global Centre for Environmental Remediation
185	P44	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
191	P45	CHARACTERISTICS AND INFLUENCING FACTORS OF ORGANIC CARBON CONTENT IN PURPLE SOIL CULTIVATED LAND IN SICHUAN BASIN, CHINA, Jingling Xue, University Of Newcastle
195	P46	ECO-FRIENDLY AND ECONOMICALLY AFFORDABLE NANOENCAPSULATED PESTICIDE FORMULATION: A FRONTIER IN NEXT GENERATION AGRICULTURE, Dr Santosh Kumar Paul, The University of Newcastle, Australia
196	P47	ADVANCING PFAS SEPARATION FROM SOLUTION USING HIGH SHEAR MIXTURES, Dr Shervin Kabiri, University Of Adelaide
205	P48	ARSENIC OXIDATION AND REMOVAL FROM WATER VIA CORE-SHELL MNO2@LA(OH)3 NANOCOMPOSITE ADSORPTION, Dr. Yulong Wang, The University Of Newcastle
207	P49	ADDRESSING FOOD SAFETY IN URBAN AGRICULTURE, Dr Md Meftaul Islam, The University Of Newcastle
208	P50	DEGRADATION OF HERBICIDES IN VARIED AUSTRALIAN SOILS: POSSIBLE IMPACTS ON NON-TARGET BIOTA, Aney Parven, The University Of Newcastle
209	P51	HEAVY METAL CONTENT IN WATER, SOIL AND PLANT ADJACENT TO TEXTILE INDUSTRY, Ms Kamrun Nahar Mousomi, GCER, University of Newcastle, Australia
211	P52	ARE BIOPESTICIDES EFFECTIVE AGAINST BRINJAL PEST?, Fatima Farhana, GCER, University of Newcastle
212	P53	THE BIOAVAILABILITY REDUCTION OF COPPER IN BIOSOLIDS BLENDED WITH BENTONITE IN AGRICULTURAL UTILIZATION, Associate Professor Dr. Thammared Chuasavathi, Khon Kaen University
215	P54	REMEDIATION OF HYDROPHOBIC SOILS USING MICROBIAL TREATMENT IN CONJUNCTION WITH BIOCHAR AND CLAY, Mrs. Naveeda majid, University of Newcastle
219	P55	SPATIAL VARIATION OF HEAVY METAL(LOID)S IN PADDY SOIL OF CKDU ENDEMIC AREA , Dr Mudalige Kulathunga, Department Of Agriculture
222	P56	CARBAMAZEPINE TOXICITY IN LEMNA SP., Mrs Andrea Carpio, University Of Newcastle

223	P57	INFLUENCE OF POLYETHYLENE AND POLYVINYL CHLORIDE MICROPLASTICS ON SEED GERMINATION OF BARLEY AND MUNG BEAN, Ms Tapati Roy, GCER, The University Of Newcastle, Callaghan, 2308, Australia
228	P58	THE ROLE OF GEOCHEMISTRY AS A FUNCTION OF ALLUVIAL FAN AGING IN ORGANIC CARBON STABILISATION, Dr Amir Mohseni, University of Newcastle
229	P59	MINING IN THE UNITED STATES, Professor And Director Kenneth Sajwan, Savannah State University
232	P60	QUANTIFYING GROUNDWATER PROCESSES ALONG THE MURRAY VALLEY BY INTERPRETING TIME SERIES DATA USING IMPULSE RESPONSE FUNCTIONS, Dr Mark Hocking, Tetra Tech Coffey
239	P61	DIRECT DRIVE HIGH RESOLUTION PASSIVE SAMPLING FOR CHARACTERIZING THE DISTRIBUTION OF PFAS IN GROUNDWATER AND SURFACE-GROUND WATER INTERFACES, Dr. William Jackson, Texas Tech University
242	P62	TRANSFORMATION OF PFAS-PRECURSORS BY CO-METABOLIC BACTERIA CULTURES RELEVANT TO AQUEOUS FILM FORMING FOAM (AFFF) SITES, Jessica LaFond, Texas Tech University
251	P63	ADSORPTION BEHAVIOR OF GLYPHOSATE TO SURFACE MODIFIED MONTMORILLONITE NANOCLOCKS, Mr Saifullah Omar Nasif, University of Newcastle
252	P64	NON-ORGANIC ONSITE REGENERATION OF PER- AND POLY-FLUOROALKYL SUBSTANCES-LADEN GRANULAR ACTIVATED CARBON , Sr Research Scientist Mahsa Modiri, EA Engineering, Science, And Technology
263	P65	SANDBAR CROPPING SYSTEMS: AN INNOVATIVE ORGANIC APPROACH TO SUPPORT LIVELIHOOD OF THE CLIMATE VULNERABLE PEOPLE IN BANGLADESH, Dr. Mohammed Sarker, Bangladesh Agricultural University
265	P66	NEW SOLUTION FOR TCE GROUNDWATER CONTAMINATION: THE PROMISE OF "NANO-MATCARE™ PLUS", Dr Mezbaul Bahar, University Of Newcastle
270	P67	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	P68	PERFORMANCE EVALUATION OF PILOT-SCALE TRIAL OF PFAS REMEDIATION USING A SUBSURFACE HORIZONTAL REACTOR WITH MATCARE™ TECHNOLOGY Mr David Kudagamege, University Of Newcastle
272	P69	DAPHNIDS AS A SURROGATE FOR ASSESSING THE TOXICITY OF WEATHERED HYDROCARBONS. , Dr Anithadevi Kenday Sivaram, The University of Newcastle
274	P70	CHALLENGES OF GREEN REMEDIATION: AN AFRICAN PERSPECTIVE, Dr Beatrice Otunola, University Of The Witwatersrand
278	P71	NOVEL ENHANCED DEFLUORINATION OF PFAS BY BIOCHAR-ASSISTED ULTRASOUND COUPLING FERRATE: PERFORMANCE AND MECHANISM, Dr Yongjia Lei, Sichuan Agricultural University
280	P72	FATE AND BEHAVIOUR OF JET FUEL ADDITIVES IN SOIL, Dr Chamila Samarasinghe, Global Centre for Environmental Remediation
282	P73	THERMAL DESORPTION OF PFAS-CONTAINING SOIL: IN SITU & EX SITU , Gorm Heron, TRS Group
285	P74	TOWARDS AN APPROPRIATE LEGAL FRAMEWORK FOR GREEN AND SUSTAINABLE REMEDIATION IN THE NIGER DELTA REGION OF NIGERIA: LESSONS FROM AUSTRALIA, Dr Izuoma Egeruoh-Adindu, Nigerian Institute Of Advanced Legal Studies Abuja/lagos Nigeria
286	P75	ADVANCED PREDICTION AND DETECTION OF PFAS IN GROUNDWATER: A COMPARATIVE STUDY USING ECNN AND ERNN TECHNIQUES, Mr Asadi Srinivasulu, Indian Institute Of Information Technology
162	P76	STATE OF THE PRACTICE: CASE STUDIES FOR DISTINGUISHING CONTAMINATION FROM BACKGROUND IN SOIL AND GROUNDWATER, Dr Hannah Mikkonen, Cdm Smith
142	P77	UNVEILING THE PAST THROUGH HISTORICAL BUSINESS DIRECTORIES, Mr Howard Waldron, Lotsearch Pty Ltd
78	P78	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
68	P79	SOLID ORGANIC ACID DELIMING TO REDUCE NITROGENOUS COMPOUND IN TANNERY WASTEWATER, Ms. Sakina Islam, Khulna University of Engineering & Technology