

CLEANUP 2024 PROGRAM

Sunday, 15 September 2024	Sunday, 15 September 2024											
	8:00 - 17:00		Exhibition and Poster Display Build, Hall L									
	09:00 - 12:30		Workshop 1		Workshop 2		Workshop 3		Workshop 4		Workshop 5	
	City Room 1		City Room 2		City Room 3		City Room 4		Room 181			
			Advances in PFAS Analytical Chemistry, Data Interpretation, and Effective Management of PFAS in Groundwater		Site Characterization, Mass Flux, Incremental Sampling Methodology, Artificial Intelligence in Site Cleanup, and Balancing Legacy and Emerging Contaminants in Site Cleanup		Human Health Risk Assessment – the How to Guide		Data and PFAS Analytics – AI Approach (Subject to confirmation by Presenter)		Faster, Better, Cheaper: Risk-Based Investigation and Remediation	
	13:30 - 17:00		Workshop 1 Continued		Workshop 2 Continued		Workshop 3 Continued		Workshop 6		-	
	City Room 1		City Room 2		City Room 3		City Room 4					
			Advances in PFAS Analytical Chemistry, Data Interpretation, and Effective Management of PFAS in Groundwater		Site Characterization, Mass Flux, Incremental Sampling Methodology, Artificial Intelligence in Site Cleanup, and Balancing Legacy and Emerging Contaminants in Site Cleanup		Human Health Risk Assessment – the How to Guide		ASbestos-in-Soil (ASBIS) Master Class			
	15:00 - 18:00		Registration Foyer M									
	18:00 - 18:00		Speaker Support, Foyer M									
	17:30 - 18:30		Welcome drinks, Foyer M									

Monday, 16 September 2024	Monday, 16 September 2024											
	Exhibition and Poster Displays Open, Hall L											
	Speaker Support, Foyer M											
	Registration Open, Foyer M											
	OFFICIAL CONFERENCE OPENING											
	Hall N											
	8.45 - 9.00 Traditional Welcome to Country Ceremony											
	9.00 - 9.15 Official Conference Opening & Welcome											
	9.15 - 10.00 Commemorative Brian Robinson Lecture: One Planet, One Health: Uncovering the Impact of pollution from the soil to the soul Ms. Natalia Rodriguez Eugenia, Global Soil Partnership, Food and Agriculture Organization of the United Nations											
	10.00 - 10.15 Global Soil Partnership and Its Technical Network in Tackling Soil Pollution Sergejus Ustinov, Food and Agriculture Organization of the United Nations (FAO), Rome, Italy											
	10.15 - 10.45 Morning Tea and Poster Viewing - Hall L											
	CONCURRENT SESSION 1											
	10.45 - 12.15		Session 1A PFAS Analytics		Session 1B PFAS Fate and Transport		Session 1C Advances in Site Characterisation and Implications to Conceptual Site Models		Session 1D Recent Advances in Remediation Technologies		Session 1E Environmental Policy and Guidance	
	Hall N		City Room 1		City Room 2		City Room 3		City Room 4			
	10.45 - 11.00		299 NON-TARGETED SCREENING FOR PFAS: A DETAILED LOOK BEHIND THE SCENES OF CONTAMINATED SITES, Prof. Christian Zwiener, University of Tübingen		293 FATE AND TRANSPORT OF PFAS CONSIDERING BOTH PER- AND POLYFLUOROALKYL SUBSTANCES, FLUOROSURFACTANT PHYSICAL CHEMISTRY AND MULTIPLE BULK USES, Dr Ian Ross, CDM Smith		193 HIGH RESOLUTION SITE CHARACTERISATION AND IMPLICATIONS TO CONCEPTUAL SITE MODELS, Dr Jonda Garcia-Rincón, Legion Dilling		43 Emerging technologies for the remediation of contaminated soil and groundwater- Mengfang Chen, Prof. Mengfang Chen, Research Professor, Institute of Soil Science, Chinese Academy of Sciences		300 LEGACY CONTAMINATION: EPA VICTORIA PERSPECTIVE, Dr Lee Miesis, EPA VIC	
	11.00 - 11.15		47 NON-TARGETED SCREENING FOR PFAS USING DIRECT INFUSION ULTRAHIGH RESOLUTION FT-ICR MASS SPECTROMETRY, Robert Young, CSIRO		53 HYDRATED ELECTRONS: THE FUTURE OF PFAS DEGRADATION?, Ms Mabel Day, University of Adelaide		31 ACHIEVING CLEANLINESS: REVISING CONCEPTUAL SITE MODEL TO SUCCESSFULLY REMEDIATE AN ASBESTOS IMPACTED SITE, Mr Benedict Robinson, Stanlec Australia		111 INNOVATIVE USE OF ALERTPRO TO ENHANCE ASBESTOS AND ASBESTOS-IN-SOIL (ASBIS) ASSESSMENT AND REMEDIATION PROJECTS, Mr Ross McFarland, Aecom		41 ENHEALTH GUIDANCE FOR THE HUMAN HEALTH RISK ASSESSMENT OF VOLATILE CHLORINATED HYDROCARBON VAPOUR INTRUSION, Dr Ian Deloreau, SA Health	
	11.15 - 11.30		67 APPLICATIONS OF HIGH RESOLUTION MASS SPECTROMETRY IN PFAS ANALYSIS, Dr Jacob Jaime, Ai Global		132 VOLATILE PFAS MONITORING IN OFFGAS FROM FULL SCALE FOAM FRACTIONATION AT A LIQUID WASTE FACILITY, Simon Dang, Arcadis		40 ADVANCEMENTS IN MONITORED NATURAL ATTENUATION ASSESSMENTS AT COMPLEX SITES WITH INCORPORATION OF ADVANCED DATA ANALYTICS AND INNOVATIVE CHARACTERIZATION TOOLS, Dr Julie Konsek, Geosyntec Consultants International, Inc.		43 VETIVER FLOATING WETLANDS FOR CLEANUP OF LAKE WATERS, Dr Sara Pawlin Banu Kamaladeen, Tamil Nadu Agricultural University		255 BIOAVAILABILITY BASED SOIL GUIDELINES, Laureate Prof Ravi Nadai, University of Newcastle	
	11.30 - 11.45		217 QUANTIFICATION OF PERFLUOROALKYL AND POLYFLUOROALKYL SUBSTANCES (PFAS) CONCENTRATION IN ESTUARINE SYSTEM: UNDERSTANDING THE INFLUENCING FACTORS, Mr Harneet Singh, ADE Consulting Group		143 APPLICATION OF PFAS FORENSICS – EXAMINING THE DISTRIBUTION OF PFAS IN SOURCES AND RECEPTORS, Mr Jos Singh, Cdm Smith		244 IMPACT OF FLOW METERS ON GROUND GAS RISK ASSESSMENTS, Nick Woodford, Tetra Tech Coffey		118 REMEDIATION POTENTIAL OF MORUS ALBA L. INTERCROPPED WITH SEDUM ALFREDI H. AND ARUNDO DONAX L FOR METAL-CONTAMINATED SOIL IN MINE, Professor Zhaozhi Guo, Central South University		71 TECHNICAL CHALLENGES FOR CONTAMINATED LAND PRACTITIONERS WHEN CONSIDERING RECENT ENHEALTH VAPOUR INTRUSION GUIDANCE, Olivia Henderson, Jacobs	
	11.45 - 12.00		91 CAPTURING FLUOROCARBON RADICALS DURING PFAS INCINERATION USING MOLECULAR-BEAM PYROLYSIS MASS SPECTROMETRY, Dr Wenhao Lu, CSIRO		104 ENHANCING PFAS IMMOBILIZATION IN CONTAMINATED SOILS USING ACTIVATED CARBON AND GRASS UNDER SIMULATED RAINFALL, Mr Minshu Liang, University Of Adelaide		238 FROM POLLUTION PATHWAYS TO SOLUTION PATHWAYS, Mrs Kirsty Dalton, Ghd Pty Ltd		188 AEROBIC CO-COMPOSTING DEGRADATION OF HIGHLY DIOXIN-CONTAMINATED FIELD SOIL, A STUDY OF BACTERIAL COMMUNITY, Dr. Huo Tuan Tran, Thai Nguyen University of Agriculture and Forestry (tuaf), Vietnam		180 PRIORITISE JET FUEL ADDITIVES USING CHEMS-I AND IMAP, Yanju Liu, University of Newcastle	
	12.15 - 13.15		Lunch and Poster Viewing - Hall L									
	PLENARY SESSION 1											
	Hall N											
	13.15 - 14.00 Plenary Session 1: Theory-to-Practice: Soil Ecosystem Services for Delivering a Healthy Environment. Dr Brent Clothier, Principal Scientist, Plant & Food Research, New Zealand Life Cycle Management Centre, Massey University											
	14.00 - 14.05 Move to session rooms											
	CONCURRENT SESSION 2											
	14.05 - 15.35		Session 2A PFAS Analytics		Session 2B PFAS Groundwater Modelling		Session 2C Advances in Site Characterisation and Implications to Conceptual Site Models		Session 2D Recent Advances in Remediation Technologies		Session 2E Environmental Policy and Guidance	
	Hall N		City Room 1		City Room 2		City Room 3		City Room 4			
	14.05 - 14.20		155 YOUR LABORATORY'S REQUIREMENTS FOR PFAS ANALYSIS IN NEMP DRAFT 3.0, Nathan Camilleri, SGS Australia		149 PROGRESS IN MODELING PFAS PLUMES IN GROUNDWATER, Dr Charles Newell, GSI Environmental INC		84 FACING THE BLACK BOX: EXPLORING THE BENEFITS AND CHALLENGES OF ARTIFICIAL INTELLIGENCE IN SITE CLEANUP, Jeremy Musson, Rhyon Environmental inc.		218 ROOT PROTEOME MODULATION REVEALS NOVEL INSIGHTS INTO CADMIUM TOLERANCE IN BRASSICA NAPUS L., Dr. Swapna Kumar Ray, International University Of Business Agriculture And Technology		244 MASS FUEL BASED CRITERIA FOR THE MANAGEMENT OF GROUNDWATER CONTAMINATION, Greg Davis, CSIRO	
	14.20 - 14.35		245 EMERGING TRENDS IN PFAS ANALYSIS: VOLATILE PFAS AND OTHER VOLATILE FLUORINATED COMPOUNDS, Dr Courtney Milner, Agilent Technologies		133 SYSTEMATIC MASS FLUX REVIEW OF DEFENCE'S 28-SITE PFAS MANAGEMENT PROGRAM, Mr Jonathan Ho, AECOM		113 USE OF REAL TIME GROUND GAS MONITORING GASFLUX SENSORS TO SUPPORT RISK ASSESSMENT AND MITIGATION, Mr Alessandro Sica, Servetto Pty Ltd		225 TWO-STAGE SEQUENTIAL BIOREMEDIATION OF TANNERY WASTEWATER FOR SUSTAINABLE MANAGEMENT , Professor Piyath Malaviya, University Of Jammu			
	14.35 - 14.50		245 EMERGING TRENDS IN PFAS ANALYSIS: VOLATILE PFAS AND OTHER VOLATILE FLUORINATED COMPOUNDS, Dr Courtney Milner, Agilent Technologies		133 SYSTEMATIC MASS FLUX REVIEW OF DEFENCE'S 28-SITE PFAS MANAGEMENT PROGRAM, Mr Jonathan Ho, AECOM		113 USE OF REAL TIME GROUND GAS MONITORING GASFLUX SENSORS TO SUPPORT RISK ASSESSMENT AND MITIGATION, Mr Alessandro Sica, Servetto Pty Ltd		81 OPTIMIZATION OF CR(VI) REMOVAL FROM WATER USING NANOCOMPOSITE- INSIGHTS FROM BOX-BEHKEN DESIGN, Mr Gourav Mondal, Indian Statistical Institute		Title TSA General William - AIS Global	
	14.50 - 15.05		29 A RIGOROUS APPROACH TO PFAS ANALYSIS IN SOLID SAMPLES, Mr Alex Kettle, University Of Adelaide		204 AFCEC's Programmatic Efforts to Assess PFAS Leaching from the Vadose Zone at AFFI-Impacted Sites", Richard Hunter Anderson		277 RAPID ON-SITE DETECTION OF UNDERGROUND PETROLEUM PIPELINE LEAKS AND RISK ASSESSMENT USING PORTABLE GAS CHROMATOGRAPHY-MASS SPECTROMETRY AND SOLID PHASE MICROEXTRACTION, Ying Cheng, University of Newcastle		277 INSIGHTS INTO THE FERRATE-SULFITE SYSTEM FOR THE DEGRADATION OF POLYCYCLIC AROMATIC HYDROCARBONS, Zhiliang Zhao, Institute of Soil Science, Chinese Academy of Sciences			
	15.05 - 15.20		44 DEVELOPMENT AND VALIDATION OF A DIFFUSION-BASED EQUILIBRIUM PASSIVE SAMPLER FOR PFAS DETECTION IN AQUATIC ENVIRONMENTS, Dr. Brent Clothier, SREM		5 APFEC's Programmatic Efforts to Assess PFAS Leaching from the Vadose Zone at AFFI-impacted Sites", Richard Hunter Anderson		5 APPLYING STATE-OF-THE-PRACTICE TOOLS TO DETERMINE THE PRESENCE AND TRANSPORT OF PFAS AT A FORMER AIR FORCE BASE, Mr. Ryan Samuels, AECOM		202 HIGH-ENERGY INJECTION OF ACTIVATED CARBON SLURRIES FOR IN-SITU REMEDIATION OF ORGANIC CONTAMINANTS: THE AUSTRALIAN EXPERIENCE, Alex Guskowski, Legion Dilling		226 SUSTAINABILITY AND REMEDIATION: THE HIDDEN COST OF GOING TOO FAR, Geologist Kristina Hill, GHD	
	15.20 - 15.35		135 ANALYSIS OF PFAS IN AIR: VALIDATION & METHODOLOGY, Dr Andrew Wright, SGS Australia Pty. Ltd		288 ADVANCED PREDICTION AND DETECTION OF PFAS IN GROUNDWATER USING ENHANCED CONVOLUTIONAL NEURAL NETWORK (ECNN) TECHNIQUE, T Q Uma, Sri M V Government Arts, Commerce, and Management College		177 USING THE HYDRAULIC PROFILING TOOL (HPT) TO INVESTIGATE GROUNDWATER FLOW PATHWAYS AT A SITE WITH SALTWATER INTRUSION, Hannah Bennett, GHD		94 ADVANCEMENTS IN REDUCTIVE NANO MATERIALS FOR REMEDIATION OF DIVERSE EMERGING AND PRIORITY POLLUTANTS: EFFICACY OF REACTIVE MATERIALS DEVELOPED BY NAKAMURAISO CO., LTD., HIROSHIMA, JAPAN, Dr. Rahul Singh, Hochschule Wismar, Wismar, Germany		20 WASTE DERIVED FILL AUDITS: WHAT ARE THEY AND WHEN COULD THEY BE APPLICABLE, Ms Kerry Kent, Australian Environmental Auditors	
	15.35 - 16.05		Afternoon Tea and Poster Viewing - Hall L									
	CONCURRENT SESSION 3											
	16.05 - 17.35		Session 3A PFAS Exposure		Session 3B PFAS Remediation		Session 3C Advances in Site Characterisation and Implications to Conceptual Site Models		Session 3D Recent Advances in Remediation Technologies		Session 3E Climate Change and Natural Disaster Management	
	Hall N		City Room 1		City Room 2		City Room 3		City Room 4			
	16.05 - 16.20		182 DETECTION & (BIO) ACCUMULATION OF LEGACY AND NOVEL PFAS IN THE (MARINE) ENVIRONMENT, Dr Rainer Lohmann, University of Rhode Island's Graduate School of Oceanography		279 PROMISING TECHNOLOGIES FOR THE REMEDIATION OF PFAS IMPACTED SOIL AND GROUNDWATER, Ramona Jey, Novlec Ewcc		234 UTILIZING RISK BASED SAMPLING METHODS COUPLED WITH FIELD INSTRUMENTS FOR NEAR REAL TIME REMEDIATION, Marvin Heskett, Element Environmental		97 COMBINED REMEDIATION STRATEGIES FOR OIL AND HEAVY METAL CONTAMINATED SOILS, Dr Sifau Adejumo, University of Ibadan		140 THE IMPORTANCE OF CLIMATE TO REMEDIAL ACTIONS AND TECHNOLOGY PERFORMANCE FOR GROUNDWATER CLEANUP, Scott Warner, University of Newcastle, Australia / BBJ Group USA	
	16.20 - 16.35								109 MAGNETIC HALOYSITE AND ITS AEROGEL FOR SUSTAINABLE REMEDIATION OF CONTAMINANTS FROM WATER, Dr Amal Karthi Dels, Institute of Leather Engineering and Technology, University of Dhaka			
	16.35 - 16.50		76 AUSTRALIAN ENVIRONMENTAL PFAS EXPOSURE IN 2024, Dr Mark Bowman, GHD		184 APPLICATION OF MULTI-INCREMENTAL SAMPLING METHODOLOGY FOR VALIDATION OF PFAS SOIL REMEDIATION, James Guzman, Aecom		237 ASSESSING THE ROLE OF MACHINE LEARNING MODELS IN GROUNDWATER CONTAMINANT MONITORING AND MANAGEMENT, Dr ASANI SRINIVASULU, University of Newcastle		237 INNOVATIVE MOF-COANIONIC INTEGRATION TO REDUCE MICROPLASTIC FOULING IN FORWARD OSMOSIS MEMBRANES, Ms Mohadesher Zargra, Edith Cowan University		170 UTILISING AUSTRALIAN CLAY MINERALS TO COMBAT METHANE EMISSION FROM CATTLE BURPS, Dr Md Rashidul Islam, The University of Newcastle	
	16.50 - 17.05		92 PFAS AND WASTE WATER TREATMENT PLANTS – STRATEGIES FOR AN “END-OF-PIPE” PROBLEM, Dr Matthew Aikeland, Ade Consulting Group		4 LEVERAGING PRIMAB TO ASSESS CONTAMINANT MIGRATION PATHWAYS AT A COMPLEX GEOLOGIC SITE, WASHINGTON, D.C., Mr. Ryan Samuels, AECOM		46 REMOTELY SENSED LAND MANAGEMENT SOLUTIONS, Amy Steiger, Stanlec Australia		127 EFFECTS OF MANAGEMENT PRACTICES ON SOIL ORGANIC CARBON DYNAMICS IN RANGELAND ECOSYSTEMS, Dr Soimar Bidaul, University of Newcastle			
	17.05 - 17.20		247 A STUDY ON PBEA, PPKA, AND PFDA TOXICITY IN CAENORHABDITIS ELEGANS EXAMINES TRANS- AND MULTIGENERATIONAL EFFECTS OF THESE PERSISTENT PER- AND POLYFLUORINATED COMPOUNDS, Dr Tannay Sana, GCER, The University of Newcastle		21 THERMAL DESTRUCTION OF PFAS: HEAD GROUP DEPENDENCE AND KINETIC BOTTLENECKS, Jens Biotvogel, CSIRO		241 MULTIPLE SOURCE EVALUATION FOR PFAS SUPPLEMENTED WITH EMERGING DIGITAL TOOLS, Tom Feeless, GHD		77 OPTIMISATION OF A GROUNDWATER TREATMENT SYSTEM DURING COMMISSIONING, Ali Ridha, Aurecon Indonesia		138 NATURAL HAZARDS, CLIMATE CHANGE & CONTAMINATED LAND, Mr Howard Waldron, Lothecare Pty Ltd	
	17.20 - 17.35		240 LITHIUM-ION BATTERY COMPONENTS ARE AT THE NEXUS OF SUSTAINABLE ENERGY AND ENVIRONMENTAL PFAS RELEASE, Associate Professor Jennifer Guello, Texas Tech University		47 PFAS REMOVAL WITHIN A BIOLOGICAL PROCESS, Mr Steve Woodard, Emerging Contaminants Treatment Technologies		108 COMBINING HANDHELD XRF ANALYSIS AND ARCGIS FOR RISK EVALUATION AND REMEDIATION PLANNING AT AN ABANDONED ASBESTIC MINE, Dr Liang Wang, The University Of Newcastle		55 SYNERGISTIC ADSORPTION AND PHOTOCATALYTIC DEGRADATION OF METHYLENE BLUE (MB) DYE OVER DEFECTIVE MIL-68H(FE) MOFs, Samira Sadeghi, Ph.D. Candidate		153 CLIMATE RESILIENCE IN CONTAMINATED SITES REMEDIATION, Mr Ivan Kwan, CDM Smith Australia	
	17.35 - 18.30		Drinks and Poster Session - Hall L									
	18.45 - Late		CleanUp in The Pub									

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

Session 4A PFAS Policy		Session 4B PFAS Remediation		Session 4C Diffuse pollution		Session 4D Recent Advances in Remediation Technologies		Session 4E Case Studies		
Hall N		City Room 1		City Room 2		City Room 3		City Room 4		
10:30 - 10:15										
10:30 - 10:45	73	PFAS: MANAGEMENT STRATEGY VIEWED THROUGH A GLOBAL LENS. Dr. Rosa Gwin, AECOM	169	DATA EVALUATION FRAMEWORK FOR DELINEATION OF PFAS SOURCE ZONES AND "BACKGROUND" PFAS SOURCES. Jeff Gamlin, GSI Environment	254	DIFFUSE POLLUTION EXPOSURE: A 'ONE HEALTH' PERSPECTIVE. Laureate Professor Ravi Naidu, GCER	141	PHYTOREMEDIATION OF TCE BY EUCALYPTUS TREES. Mr Mark Chapman, Aecom Australia	114	EDUCATION AND TRAINING FOR CONTAMINATED LAND PROFESSIONALS: TIME TO RAISE OUR GAME?, Dr Sophie Wood, UTS
10:45 - 11:00							227	INNOVATIVE ENVIRONMENTAL REMEDIATION TECHNOLOGIES (INERT) FOR IMPROVING SOIL HEALTH. Dr Md Nuruzaman, 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	42	HOW DOES EU'S POLICY FRAMEWORK TACKLE PREVENTION AND MANAGEMENT OF PFAS POLLUTION?, Dr Jussi Reinikainen, Finnish Environment Institute (Syke)	93	RAPID AND VIRTUALLY COMPLETE MECHANOCHEMICAL REDUCTIVE DEFUORINATION OF PER- AND POLYFLUOROALKYL SUBSTANCES (PFAS) IN CONTAMINATED SOIL USING SODIUM AND AMINES AS CO-MILLING AGENTS: A PROMISING FIRST APPROACH FOR THE DEVELOPMENT OF NOVEL NON-COMBUSTION PFAS REMEDIATION PROCESSES FOR SOILS. Dr. Rahul Singh, Hochschule Wismar, Wismar, Germany		Soil health or OC's approach to Fertilizer customization - Leonardus Vergulst, OCIP Group, Morocco	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	125	PFAS MASS FLUX - A PLATFORM FOR DEVELOPING REALISTIC REMEDIAL GOALS AND SUSTAINABLE ACTION. Ms Rachael Casson, AECOM	80	EXPLORING THE POTENTIAL: CAN ARSENIC TOLERANT SULFA SOLUBILISING BACTERIA REDUCE ARSENIC TOXICITY IN RICE?, Ms Shreyaa Chakrabarti, Indian Statistical Institute	145	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 Wallis, Cam 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 Meeds, CDM Smith	24	PREDICTING PFAS FLUX AT A COMPLEX INDUSTRIAL SITE - WHY IT CAN BE PAINFUL AND WHY WE DON'T ANYWAY!. Mr George Bayer, Aurecon	186	LOW COST MACHANOCEMICAL SYNTHESIS OF ORGANOCATALYSTS FOR REMEDIATING PFOS AND METAL CO-POLLUTANTS. Dr Bhabendra Biswas, University Of Newcastle	204	PREDICTION OF SALTWATER INTRUSION USING NUMERICAL AND SUBGATE MODELLING: CASE STUDY OF TACABE COASTAL AQUIFER, VANUATU. Mr Ashneel Sharan, James Cook University
11:45 - 12:00			134	TREATMENT OF COMPLEX PFAS EFFLUENT (FRANCE&US). Ms Carole Couderc, Veolia	224	BIORATIONAL PEST MANAGEMENT STRATEGIES: A PREVENTION TOOL OF CHEMICAL PESTICIDES HAZARD. Dr. Md Mahabuzur Rahman, Bangladesh Sheikh Mujibur Rahman Agricultural University (Bermu)	167	INTERACTION OF MCM-41 WITH IMIDACLOPRID TO REVEAL ITS MULTIFUNCTIONAL APPLICATION. Mr Saifullah Omar Nasir, 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 Hnin Verma, Chikara University	197	EMERGING USES OF INJECTABLE COLLOIDAL CARBON TO REMEDIATE PFAS IN GROUNDWATER AND SEDIMENT. Brendan Brodie, Environmental Resources Management	257	A BRIEF OUTLOOK ON TECHNOLOGIES: CURRENT ISSUES & CHALLENGES. Dr Jayaraj Vijayanathan, 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 PERI-METROPOLITAN AREA. Ms Shander Coleman, Australian Environmental Auditors
12:15 - 12:15	Lunch and Poster Viewing - Hall L									

CONCURRENT SESSION 5

Session 5A PFAS Policy		Session 5B PFAS Remediation		Session 5C Diffuse pollution		Session 5D Mining and ESG		Session 5E Case Study		
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	87	VARIABILITY AND UNCERTAINTY ASSOCIATED WITH SAMPLING, ANALYSIS, AND RISK ASSESSMENT. Mr Najj Alkaddas, SCHOW Consultant	284	REGENERATIVE REMEDIATION: ESG IN PRACTICE. Frank Sweet, AECOM	42	UNRAVELLING CONTAMINANT MIGRATION PATHWAYS AT A FORMER PESTICIDE MANUFACTURING FACILITY. Mr Gary Masur, Hella Ehs Pty Ltd
13:30 - 13:45									32	DEMONSTRATION OF LNAPL NATURAL SOURCE ZONE DEPLETION TO ACHIEVE SITE CLOSURE – A CASE STUDY FROM REGIONAL WESTERN AUSTRALIA. Dr Daniel Boland, GHD
13:45 - 14:00	88	UNITED STATE ENVIRONMENTAL PROTECTION AGENCY FINAL PFAS NATIONAL PRIMARY DRINKING WATER REGULATION. Susan Schow, Retired, State of Maine Health Data Organization	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	MODELING 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 / Btl Group USA
14:00 - 14:15									236	NATURE-INSPIRED INNOVATION: LONG-TERM MANAGEMENT OF PFAS CONTAMINATED WATER USING FLOATING WETLANDS. Dr John Awad, Cairo
14:15 - 14:30	PFAS Policy Update in Australia. Dr Shaun Thomas, Principal Advisor Wastewater, Compliance and Regulatory Practice Branch EPA South Australia	129	CAN PREVIOUSLY SEQUESTERED PFAS BE RELEASED IN GROUNDWATER AFTER IN-SITU IMMOBILISATION. Dr Anthony Umeh, Global Center for Environmental Remediation, University of Newcastle	249	DILUTION IS THE SOLUTION TO THE POLLUTION (EQUATION). Mr Bryden Tisdley, Tetra Tech Canada	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 OOOGLAND, NIGERIA. PROFESSOR NENIBABIN ZABNEY, Hydrocarbon Pollution Remediation Project (Hyperm)	
14:30 - 14:45										85
14:45 - 15:15	Afternoon Tea and Poster Viewing - Hall L									

CONCURRENT SESSION 6

Session 6A Mining and ESG		Session 6B PFAS Remediation		Session 6C ALCICA Session for Early Career Professionals		Session 6D Recently Emerged and Emerging Contaminants		Session 6E Case Study	
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.		Introduction and brief about the session - Larissa Willoughby, Australia Environmental Auditor		294		106	
	289	PFAS IN DRINKING WATER: CHALLENGES WITH IMPLEMENTING THE NEW US REGULATIONS. . Tamara Macabuez, CDM Smith		Sustainable Bioremediation in Remote South Australia. Ms Natalie Newman, EHS Support Pty Ltd.		LET'S STOP THE WHACK-A-MOLE APPROACH TO EMERGING CONTAMINANTS. Dr Shaily Mahendran, University of California		REMEDICATING SUBSURFACE COMBUSTION IN COAL WASH IN A SENSITIVE LAND USE SETTING - CASE STUDY . Matthew Barberson (Merrl Beberoglu), Wap Australia Pty Ltd	
15:30 - 15:45	116	ABANDONED MINE TAILING DUMPS SITE FUGITIVE DUST PROBLEMS. PHYTOCAPS AND OPTIONS FOR SUSTAINABLE REMEDIATION: A CASE OF OAMITES ABANDONED MINE SITE IN CENTRAL NAMIBIA. Mr Tshivule Iipinge, Namibia University of Science and Technology		27		210		210	
15:45 - 16:00	89	THE PRECAUTIONARY PRINCIPLE - HAS IT HELPED OR HINDERED COMMUNICATING AND MANAGING PFAS RISKS?, Mr Andrew Thomas, GHQ Pty Ltd		27		15		201	
16:00 - 16:15	275	REGENERATIVE REMEDIATION: GENERATING SUSTAINABLE POST-REMEDIATION HUMAN AND ECOLOGICAL VALUE FROM IMPAIRED PROPERTIES. JOHN BLEIER, AECOM		48		26		230	
16:15 - 16:30	190	MINECARE: ADVANCED SOFTWARE SOLUTIONS FOR MANAGING CONTAMINATED MINE SITES. Dr Liang Wang, The University Of Newcastle		49		36		198	
16:30 - 16:45	253	ESG-DRIVEN ENVIRONMENTAL RISK ASSESSMENTS: IMPORTANCE OF ECOLOGICAL RECEPTORS FOR ACHIEVING UNSDGs . Abinandan Sudharanam, The University of Newcastle		61		40		52	
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		301		158	
18:30 - 19:00	Pre-dinner drinks								
19:00 - 23:30	Gala Dinner - Panorama Ballroom								

Tuesday, 17 September 2024

Wednesday, 18 September 2024

Wednesday, 18 September 2024											
Exhibition and Poster Displays Open, Hall L											
Speaker Support, Foyer M											
Registration, Foyer M											
PLENARY SESSION 3											
Hall N											
9:20 - 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 Nathanael, Land Quality Management Ltd Nottingham		82 CHARACTERIZATION AND ECOLOGICAL RISK ASSESSMENT OF MICROPLASTICS IN SEDIMENTS OF A TROPICAL WEST AFRICAN LAGOON ECOSYSTEM, Professor Lucian Chukwu, University of Lagos, Lagos - Nigeria		240 EFFECTIVE COMMUNICATION OF RISK - TO COMMUNITIES AFFECTED BY SOIL CONTAMINATION, Michael Støpford, ANCORCO	
10:45 - 11:00											
11:00 - 11:15		39 EMERGING CONTAMINANTS IN WASTE INDUSTRY- CHALLENGES AND SOLUTIONS, Gus Martini, HUEKER Australia		120 PFAS IN BIOSOLIDS: TRANSFER TO SOIL AND CROPS PRESENTS RISKS TO CONSUMERS OF BEEF AND MILK, Summer Streets, Minnesota Pollution Control Agency		64 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 - Mel Karantonis, Jacobs	
11:15 - 11:30		136 ADDRESSING PFAS CHALLENGES IN WATER- VEOIA RETURN OF EXPERIENCE IN NORTH AMERICA AND AUSTRALIA, Mr Matt East, Veolia				69 LABORATORY TREATABILITY STUDY FOR REMEDIATION OF LIGHT NON-AQUEOUS PHASE LIQUID - Mr Matthew Tendani, Aurecon		100 OCCURRENCE AND DISTRIBUTION OF MICROPLASTIC POLLUTION IN PEATLAND AREAS, Dr. Ngoc Son Hai Nguyen, Thai Nguyen University Of Agriculture And Forestry (huaf), Vietnam		174 THE ART OF COMMUNICATING RISKS TO COMMUNITY: STRATEGIES FOR TECHNICAL PROFESSIONALS, Mr Drew Morgan, GHD Pty Ltd	
11:30 - 11:45		144 FIREFIGHTING FOAM TRANSITION - ARE WE DONE YET?, STATUS AND STATE OF THE ART, Peter Storch, Arcadis Australia Pacific		283 EXPLORING THE FATE OF PFAS IN BIOSOLIDS PYROLYSIS THROUGH PYROCO PILOT PLANT, Aravind Sarapaneni, RMIT University		246 POTENTIAL OF BUSHFIRES ON THE MINERALOGICAL TRANSFORMATION OF MOST USED ASBESTOS, Girthi Chappala, GCER		101 MACHINE LEARNING APPROACHES FOR PREDICTING MICROPLASTIC POLLUTION IN PEATLAND AREAS, Dr. Nhu Tuan Tran, Thai Nguyen University Of Agriculture And Forestry (huaf), Vietnam		297 ASSESSING THE IMPACT OF HEAVY CHEMICAL FERTILIZER USE ON SOIL HEALTH IN CAMEROON, Ndama Georges Marfai, University of Dschang	
11:45 - 12:00		176 INVESTIGATING THE TOXICITY OF PERFLUOROOCTANE SULFONIC ACID (PFOS) ON GROUNDWATER ISOPODS AND AMPHIPODS, Dr M.A., Ayanka Wijayawardana, The University of Newcastle and cscCare		107 PFAS IN BIOSOLIDS - IS EVERYONE MEASURING THE SAME THING? INSIGHTS FROM A PROFICIENCY TESTING STUDY, Ms Luminita Anin, National Measurement Institute		28 TOWARDS A RISK-BASED APPROACH TO THE TRANSPORT OF SOIL CONTAINING ASBESTOS, Simon Mason, Agon 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 INDONERIAN PADDOY SOILS: STATUS AND IMPLICATION TO ONE HEALTH, Yui Sujaeman, National Research and Innovation Agency	
12:00 - 12:15		131 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				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 Sangildurai, Tamil Nadu Agricultural University		256 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, Hawaii 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 DIRT 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 DOWNTOWN, Dal Raqaj Singh Sandhu, Petronas Chemical Methanol Sdn Bhd		230 ESTABLISHING BASELINE CONTAMINATION OF MICROPLASTICS IN ORGANIC WASTES, Dr Mike Williams, Cato		99 DEVELOPMENT OF AN ADAPTIVE FRAMEWORK FOR OPTIMIZING REMEDIATION 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.d.rupani P. Welivita, GCER, 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 Gerard, 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 Siamand Gopalani, CRC CARE/GCER, The University of Newcastle		58 MEASURING THE IMPACT OF BIO-ACCESSIBLE HMs ON COOKED RICE FROM CHRONITE-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 Askland, 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, Gcor		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 Prohaska, 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 Demschler, 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 Ademir Adeleye, University of Newcastle		149 VAPOUR INTRUSION RISK ASSESSMENT - DO YOU HAVE THE RIGHT DATA?, 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		144 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 Goldworthy, enRISK	
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 Bodo 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		
Thursday, 19 September 2024	9:00 - 10:30	City Room 3
	11:00 - 12:30	Technical Tour departing from West entrance of Adelaide Convention Centre (Meet at 8:30am for a 9:00AM departure)
	13:30 - 15:00	PFAS Research Symposium (Invite only) City Rooms 1-3
	16:30 - 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 NANOCCLAYS, 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
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