




CLEANUP 2024 PROGRAM

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 LB1	
	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 and Case Studies	Faster, Better, Cheaper: Risk-Based Investigation and Remediation (STARTS 8.00am)	
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 (ASBINS) Master Class		
15.00 - 18.00	Registration Foyer M Speaker Support, Foyer M					
17.30 - 18.30	Welcome drinks, Foyer M					

Monday, 16 September 2024						
7:30	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 Eugenio, 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 Chair: Dr Feng Shi Deputy Chair: Ms Nipuni Welivitiya	Session 1B PFAS Fate and Transport Chair: Dr Charles Newell Deputy Chair: Jens Blatevogel	Session 1C Advances in Site Characterisation and Implications to Conceptual Site Models Chair: Dr Alvin Lal Deputy Chair: TBC	Session 1D Recent Advances in Remediation Technologies Chair: Prof Ming Hung Wong Deputy Chair: Dr Mezbahul Bahar	Session 1E Environmental Policy and Guidance Chair: Laureate Professor Ravi Naidu Deputy Chair: Dr Jussi Reinikainen	
Hall N City Room 1 City Room 2 City Room 3 City Room 4						
10.45 - 11.00	259 NONTARGET SCREENING FOR PFAS: A DETAILED LOOK BEHIND THE SCENES OF CONTAMINATED SITES, Prof. Christian Zwiener, University of Tuebingen	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 Jonás García-Rincón, Legion Drilling	308 EMERGING TECHNOLOGIES FOR CONTAMINATED SITES, Mengfang Chen, Chinese Academy of Sciences	300 LEGACY CONTAMINATION: EPA VICTORIA PERSPECTIVE, Dr Lee Miezis, EPA VIC	
11.00 - 11.15						
11.15 - 11.30	67 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, Stantec Australia	111 INNOVATIVE USE OF ALERTPRO TO ENHANCE ASBESTOS AND ASBESTOS-IN-SOIL (ASBINS) 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 Delaere, SA Health	
11.30 - 11.45	217 APPLICATIONS OF HIGH RESOLUTION MASS SPECTROMETRY IN PFAS ANALYSIS, Dr Jacob Jaine, Als Global	152 VOLATILE PFAS MONITORING IN OFFGAS FROM FULL SCALE FOAM FRACTIONATION AT A LIQUID WASTE FACILITY, Simon Dong, Arcadis	60 ADVANCEMENTS IN MONITORED NATURAL ATTENUATION ASSESSMENTS AT COMPLEX SITES WITH INCORPORATION OF ADVANCED DATA ANALYTICS AND INNOVATIVE CHARACTERIZATION TOOLS, Dr Matthew Lee, Geosyntec Consultants International, Inc.	63 VETIVER FLOATING WETLANDS FOR CLEANUP OF LAKE WATERS, Dr Sara Parwin Banu Kamaludeen, Tamil Nadu Agricultural University	255 BIOAVAILABILITY BASED SOIL GUIDELINES, Laureate Prof Ravi Naidu, University of Newcastle	
11.45 - 12.00	91 UNDERSTANDING THE FATE AND BEHAVIOUR OF PFAS IN PORT PHILLIP BAY, Mr Navneet Singh, ADE Consulting Group	163 APPLICATION OF PFAS FORSENIKS – EXAMINING THE DISTRIBUTION OF PFAS IN SOURCES AND RECEPTORS, Mr Jai Singh, Cdm Smith	246 IMPACT OF FLOW METERS ON GROUND GAS RISK ASSESSMENTS, Nick Woodford, Tetra Tech Coffey	118 REMEDIATION POTENTIAL OF MORUS ALBA L. INTERCROPPED WITH SEDUM ALFREDII H. AND ARUNDO DONAX L. FOR METAL-CONTAMINATED SOIL IN MINE, Professor Zhaohui Guo, Central South University	71 TECHNICAL CHALLENGES FOR CONTAMINATED LAND PRACTITIONERS WHEN CONSIDERING RECENT ENHEALTH VAPOUR INTRUSION GUIDANCE, Stanley Howell, Jacobs	
12.00 - 12.15	13 CAPTURING FLUOROCARBON RADICALS DURING PFAS INCINERATION USING MOLECULAR-BEAM PYROLYSIS MASS SPECTROMETRY, Dr Wenchao 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, Dr Gillian Kopitke, GHD Pty Ltd	188 AEROBIC CO-COMPOSTING DEGRADATION OF HIGHLY DIOXIN-CONTAMINATED FIELD SOIL: A STUDY OF BACTERIAL COMMUNITY, Dr. Huu Tuan Tran, Van Lang University (VLU), Vietnam	180 PRIORITISE JET FUEL ADDITIVES USING CHEM-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 sessions rooms					
CONCURRENT SESSION 2						
14.05 - 15.35	Session 2A PFAS Analytics Chair: Mr Simon Matthews Deputy Chair: Dr Courtney Milner Sponsored by 	Session 2B PFAS Groundwater Modelling Chair: Dr Alvin Lal Deputy Chair: Mr Christian Wallis	Session 2C Advances in Site Characterisation and Implications to Conceptual Site Models Chair: Matthew Barham Deputy Chair: Mr Mark Chapman	Session 2D Recent Advances in Remediation Technologies Chair: Mengfang Chen Deputy Chair: Dr Md Nuruzzaman	Session 2E Environmental Policy and Guidance Chair: Summer Streets Deputy Chair: Dr Yanju Liu	
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	160 PROGRESS IN MODELING PFAS PLUMES IN GROUNDWATER, Dr Charles Newell, GSI Environmental INC	86 FACING THE BLACK BOX: EXPLORING THE BENEFITS AND CHALLENGES OF ARTIFICIAL INTELLIGENCE IN SITE CLEANUP, Jeremy Musson, Pinyon Environmental Inc.	252 NON-ORGANIC ONSITE REGENERATION OF PER- AND POLY-FLUOROALKYL SUBSTANCES-LADEN GRANULAR ACTIVATED CARBON, Mahso Modiri, EA Engineering, Science and Technology	314 USE OF MASS FLUX AND MASS DISCHARGE TO IMPROVE DECISION MAKING AT CONTAMINATED SITES, Najj Akkadiss, SCHOW Consultant	
14.20 - 14.35						
14.35 - 14.50	245 EMERGING TRENDS IN PFAS ANALYSIS: FOCUS ON VOLATILE PFAS AND OTHER FLUORINATED COMPOUNDS, Dr Courtney Milner, Agilent Technologies	302 THE U.S. DEFENSE DEPARTMENT'S PROGRAMMATIC EFFORTS TO ASSESS PFAS LEACHING FROM AFFF-IMPACTED SITES, Dr Richard Anderson, SERDP/ESTCP	113 USE OF REAL TIME GROUND GAS MONITORING GASFLUX SENSORS TO SUPPORT RISK ASSESSMENT AND MITIGATION, Mr Alessandro Sica, Senversa Pty Ltd	277 INSIGHTS INTO THE FERRATE-SULFITE SYSTEM FOR THE DEGRADATION OF POLYCYCLIC AROMATIC HYDROCARBONS, Zhiliang Zhao, Institute of Soil Science, Chinese Academy of Sciences	309 AN OVERVIEW OF PROGRESS FROM NICOLE'S PFAS WORKING GROUP, Mr Geraint Williams, ALS Laboratories	
14.50 - 15.05	29 A RIGOROUS APPROACH TO PFAS ANALYSIS IN SOLID SAMPLES, Mr Alex Kelfie, University of Adelaide		206 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	202 HIGH-ENERGY INJECTION OF ACTIVATED CARBON SLURRIES FOR IN-SITU REMEDIATION OF ORGANIC CONTAMINANTS: THE AUSTRALIAN EXPERIENCE, Dr Jonás García-Rincón, Legion Drilling		
15.05 - 15.20	286 ADVANCED PREDICTION AND DETECTION OF PFAS IN GROUNDWATER: A COMPARATIVE STUDY USING ECNN AND ERNN TECHNIQUES, Mr Asadi Srinivasulu, Indian Institute Of Information Technology	288 ADVANCED PREDICTION AND DETECTION OF PFAS IN GROUNDWATER USING ENHANCED CONVOLUTIONAL NEURAL NETWORK (ECNN) TECHNIQUE, T G Uma, Sir M V Government Arts and Commerce College, Dr Leelavathy AM, Dr Y Ramesh	148 PFAS IN THE VADOSE ZONE – A CONCEPTUAL MODEL: PART 1 KEY PROCESSES THAT REQUIRE CONSIDERATION, Dr. Peter Beck, Ghd Pty. Ltd.	96 ADVANCEMENTS IN REDUCTIVE NANO MATERIALS FOR REMEDIATION OF DIVERSE EMERGING AND PRIORITY POLLUTANTS: EFFICACY OF REACTIVE MATERIALS DEVELOPED BY NAKAMURAKISO CO., LTD., HIROSHIMA, JAPAN, Dr. Rahul Singh, Hochschule Wismar, Wismar, Germany	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		177 Q&A and Open discussion	218 USING THE HYDRAULIC PROFILING TOOL (HPT) TO INVESTIGATE GROUNDWATER FLOW PATHWAYS AT A SITE WITH SALTWATER INTRUSION, Hannah Bennett, GHD	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					

Sunday, 15 September 2024

Monday, 16 September 2024

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	
		Chair: Kevin Alvarado Deputy Chair: Dr Ian Ross Sponsored by 		Chair: Dr Fang Wang Deputy Chair: Dr Yanju Liu		Chair: Susan Schow Deputy Chair: Dr Liang Wang		Chair: Mr Ross McFarland Deputy Chair: Dr Amir Mohseni		Chair: Jeremy Musson Deputy Chair: Dr Ying Cheng	
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 Iery, Navfac Exwc	87	VARIABILITY AND UNCERTAINTY ASSOCIATED WITH SAMPLING, ANALYSIS, AND RISK ASSESSMENT, Mr Najj Akladiss, SCHOW Consultant	109	MAGNETIC HALLOYSITE AND ITS AEROGEL FOR SUSTAINABLE REMEDIATION OF CONTAMINANTS FROM WATER, Dr Bhaba Biswas, GCER, University of Newcastle	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							237	INNOVATIVE MOF-CHITOSAN INTEGRATION TO REDUCE MICROPLASTIC FOULING IN FORWARD OSMOSIS MEMBRANES, Dr Masoumeh Zargar, Edith Cowan University			
16.35 - 16.50	121	AUSTRALIAN ENVIRONMENTAL PFAS EXPOSURE IN 2024, Dr Mark Bowman, GHD	76	APPLICATION OF MULTI-INCREMENTAL SAMPLING METHODOLOGY FOR VALIDATION OF PFAS SOIL REMEDIATION, James Guzman, Aecom	184	ASSESSING THE ROLE OF MACHINE LEARNING MODELS IN GROUNDWATER CONTAMINANT MONITORING AND MANAGEMENT, Dr ASADI SRINIVASULU, University of Newcastle	46	REMOTELY SENSED LAND MANAGEMENT SOLUTIONS, Amy Steiger, Stantec Australia	170	UTILIZING 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 Askeland, ADE Consulting Group	150	PFAS IN THE VADOSE ZONE – A CONCEPTUAL MODEL: PART 2 APPICATION TO AUSTRALIAN SOILS, Dr. Peter Beck, Ghd Pty. Ltd.	77	OPTIMISATION OF A GROUNDWATER TREATMENT SYSTEM DURING COMMISSIONING, Ali Ridha, Aurecon Indonesia	127	EFFECTS OF MANAGEMENT PRACTICES ON SOIL ORGANIC CARBON DYNAMICS IN RANGELAND ECOSYSTEMS, Dr Salmaz Bidast, University of Newcastle	
17.05 - 17.20	267	A STUDY ON PFBA, PFHXA, AND PFOA TOXICITY IN CAENORHABDITIS ELEGANS EXAMINES TRANS- AND MULTIGENERATIONAL EFFECTS OF THESE PERSISTENT PER- AND POLYFLUORINATED COMPOUNDS, Dr Tanmay Sana, GCER, The University of Newcastle	21	THERMAL DESTRUCTION OF PFAS: HEAD GROUP DEPENDENCE AND KINETIC BOTTLENECKS, Jens Blotveogel, CSIRO	241	MULTIPLE SOURCE EVALUATION FOR PFAS SUPPLEMENTED WITH EMERGING DIGITAL TOOLS, Tom Fewless, GHD	196	ADVANCING PFAS SEPARATION FROM SOLUTION USING HIGH SHEAR MIXTURES, Dr Shervin Kabiri, University of Adelaide	138	NATURAL HAZARDS, CLIMATE CHANGE & CONTAMINATED LAND, Mr Howard Waldron, Lotsearch 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 Guelfo, Texas Tech University	47	PFAS REMOVAL WITHIN A BIOLOGICAL PROCESS, Mr Darin Stoker, Emerging Compounds Treatment Technologies	108	COMBINING HANDHELD XRF ANALYSIS AND ARCGIS FOR RISK EVALUATION AND REMEDIATION PLANNING AT AN ABANDONED ARSENIC MINE, Dr Liang Wang, The University of Newcastle			153	CLIMATE RESILIENCE IN CONTAMINATED SITES REMEDIATION, Mr Ivan Kwan, CDM Smith Australia	
17.35 - 18.35	Drinks and Poster Session - Hall L Sponsored by 										
18.45 - Late	CleanUp in The Pub										


Tuesday, 17 September 2024

7:30	Speaker Support, Foyer M
8:00	Exhibition and Poster Displays Open, Hall L 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		Session 4A PFAS Policy	Session 4B PFAS Remediation	Session 4C Diffuse Pollution	Session 4D Recent Advances in Remediation Technologies	Session 4E Case Studies
		Chair: Rebecca Hughes Deputy Chair: Mark Taylor	Chair: Dr Ramona Iery Deputy Chair: Mr Ivan Kwan	Chair: Frank Sweet Deputy Chair: Dr Athila Toftzser	Chair: Gillian Kopfke Deputy Chair: Hsu-Tuan Tran Sponsored by: 	Chair: Mr Ross McFarland Deputy Chair: Dr Ayanka Wijayawardena
		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	169	254	57	114
10.45 - 11.00						191
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)	95	313	141	159
11.15 - 11.30			268	125	227	165
11.30 - 11.45	262	PFAS IN CHINA: OCCURRENCE, RISK, POLICIES AND MANAGEMENT, Fang Wang, Institute of Soil Science, Chinese Academy of Sciences	151	257	80	204
11.45 - 12.00			134	162	167	200
12.00 - 12.15	289	ADDRESSING PFAS CONTAMINATION IN INDIA: POLICY PROGRESS AND PATHWAY FORWARD, Dr Nitin Verma, Chitkara University	17	224	265	235


Lunch and Poster Viewing - Hall L

CONCURRENT SESSION 5

13.15 - 14.45		Session 5A PFAS Policy	Session 5B PFAS Remediation	Session 5C Diffuse Pollution	Session 5D Mining and ESG	Session 5E Case Study
		Chair: Najj Alkadiss Deputy Chair: Dr Mark Bowman	Chair: Jeff Gamlin Deputy Chair: Dr Cheng Fang	Chair: Dr Jussi Reinikainen Deputy Chair: Summer Streets	Chair: Frank Sweet Deputy Chair: Dr Girish Choppala	Chair: Professor Lucian Chukwu Deputy Chair: Mr Christian Wallis
		Hall N	City Room 1	City Room 2	City Room 3	City Room 4
13.15 - 13.30	292	PFAS POLICY UPDATE- UK, Paul Nathanail, Land Quality Management Ltd Nottingham	298	234	284	42
13.30 - 13.45						32
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	231	172	187
14.00-14.15			236	203	89	56
14.15 - 14.30	311	PFAS POLICY AND REGULATION IN AUSTRALIA: MANAGING HISTORICAL AND PREVENTING FUTURE CONTAMINATION THROUGH THE UPDATED PFAS NEMP AND ICHEMS, Dr Shaun Thomas, Environment Protection Authority South Australia	129	249	161	117
14.30-14.45			85	239		11

Afternoon Tea and Poster Viewing - Hall L

Tuesday, 17 September 2024

CONCURRENT SESSION 6						
Session 6A Mining and ESG		Session 6B PFAS Remediation		Session 6C ACLCA Session for Early Career Professionals	Session 6D Recently Emerged and Emerging Contaminants	Session 6E Case Study
Chair: Dr Natalia Rodriguez Eugenio Deputy Chair: Prof Brent Clothier		Chair: Dr Bhaba Biswas Deputy Chair: Dr Cheng Fang		Chair: Ms Lariss Willoughby	Chair: Dr Shaily Mahendra Deputy Chair: Dr Afilia Toltzser	Chair: Prof Megharaj Mallavarapu Deputy Chair: Dr Grish Choppala
Hall N		City Room 1		City Room 2	City Room 3	City Room 4
15.15 - 17.00						
15.15-15.30	190 MINECARE: ADVANCED SOFTWARE SOLUTIONS FOR MANAGING CONTAMINATED MINE SITES, Dr Liang Wang, The University of Newcastle	287 PFAS IN DRINKING WATER: CHALLENGES WITH IMPLEMENTING THE NEW US REGULATIONS, Tamzen Macbeth, CDM Smith	Introduction and brief about the session - Larissa Willoughby, Australian Environmental Auditors		294 LET'S STOP THE WHACK-A-MOLE APPROACH TO EMERGING CONTAMINANTS, Dr Shaily Mahendra, University of California	106 REMIEDIATING SUBSURFACE COMBUSTION IN COAL-WASH IN A SENSITIVE LAND USE SETTING - CASE STUDY, Matthew Barberson (Merf Berberoglu), Wsp Australia Pty Ltd
15.30 - 15.45			Sustainable Bioremediation in Remote South Australia, Ms Natalie Newman, EHS Support Pty Ltd.			201 AUSTRALIA'S SAFEST PLACE FOR PERMANENT ISOLATION OF HAZARDOUS MATERIALS - TELLUS HOLDINGS' SANDY RIDGE FACILITY, WESTERN AUSTRALIA, Ms Jade Ritchie, Tellus
15.45 - 16.00	84 CONTAMINATED MINING SITE RISK ASSESSMENT AND BROWNFIELD REUSE IN NORTHERN TAIWAN, Mr. Yun-Jie Lai, Apollo Technology Co., Ltd.	27 MATERIALS AND PROCESSES FOR PHOTOCATALYTIC DESTRUCTION OF PERSISTENT ORGANIC POLLUTANTS, Dr Cameron Shearer, The University of Adelaide	Assessment of hydraulic profiling tool (HPT) results as part of a conceptual site model- Annette Murdoch, GHD		69 LABORATORY TREATABILITY STUDY FOR REMEDIATION OF LIGHT NON-AQUEOUS PHASE LIQUID, Mr Matthew Tendam, Aurecon	250 RAPID ASSESSMENT AND REMEDIATION OF AN AIRCRAFT CRASH SITE ON TIWI ISLANDS, NT, Mr Liam Spurr, Jacobs
16.00 - 16.15	243 ANTIMONY(V) COPRECIPITATION WITH SCHWERTMANNITE IN ACID-SULFATE SYSTEMS., Mohammad Rastegari, Southern Cross University	48 TREATMENT OF A 4 MLD LAGOON SYSTEM POTW EFFLUENT TO PFAS DRINKING WATER STANDARDS USING FOAM FRACTIONATION, Cameron Marshall, Emerging Compounds Treatment Technologies	Living with our legacy: Advancing sustainable waste management in Victoria - Matthew Barham, CDM Smith		26 DISCHARGE OF MICROPLASTICS AND PLASTIC ADDITIVES FROM MUNICIPAL SOLID WASTE OPEN DUMPS INTO THE ENVIRONMENT, Professor Meththika Vithanage, Ecosphere Resilience Research Center, University of Sri Jayewardenepura	198 REAL-TIME SOIL ASSESSMENT: REMSCAN IN KUWAIT'S ENVIRONMENTAL REMEDIATION PROGRAM, Dr Sean Manning, Ziltek
16.15 - 16.30	275 REGENERATIVE REMEDIATION: GENERATING SUSTAINABLE POST-REMEDATION HUMAN AND ECOLOGICAL VALUE FROM IMPAIRED PROPERTIES, Paul Steinwede, AECOM	49 FOAM FRACTIONATION COUPLED WITH HYDROTHERMAL ALKALINE TREATMENT FOR REMEDIATION OF A PFAS-IMPACTED FIRE TRAINING POND, Charlie Gordon, Emerging Compounds Treatment Technologies	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 THALE NOI, THAILAND, Peeranart Kiddee, Department of Biological and Environmental Sciences, Thaksin University	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 Kortlever, Stantec
16.30 - 16.45	253 ESG-DRIVEN ENVIRONMENTAL RISK ASSESSMENTS: IMPORTANCE OF ECOLOGICAL RECEPTORS FOR ACHIEVING UNSDGS, Abinandan Sudharsanam, The University of Newcastle	61 ELECTROCHEMICAL OXIDATION FOR ONSITE PFAS DESTRUCTION, Katie Henderson, Ovivo	Fieldwork Survival Guide: Strategies for Health and Mental Resilience - Cheri van Rensburg, GHD		40 PFAS IN DUST MEASUREMENT - ENVIRONMENTAL AND OCCUPATIONAL CONSIDERATIONS, Tim Dowle, ADE Consulting Group	158 STARTING AT THE END: OPTIMISING ENHANCED IN SITU BIOREMEDIATION FOR TCE, Mr Abe Wright, CDM Smith
16.45 - 17.00	112 INFLUENCES OF LAYERED SILICATE MINERALS ON THE RUMEN ECOSYSTEM FOR METHANE INHIBITION, Zubaer Hosen, University of Newcastle, NSW, Australia	16 REGENERABLE RESIN FOR PFAS REMOVAL - 5 YEARS LATER ... WHAT WE'VE LEARNED., Dr. David Kempisty, Ect2	Q&A and Open discussion		214 ADVANCES IN THE IDENTIFICATION OF DIFFERENT TYPES OF ASBESTOS: AN ANALYTICAL APPROACH, Dr Saianand Gopalan, CRC CARE/GCER, The University of Newcastle	Q&A and Open discussion
18.30 - 19.00	Pre-dinner drinks - Foyer M					
19.00 - 23.30	Gala Dinner - Panorama Ballroom Sponsored by 					

Wednesday, 18 September 2024

7:30	Speaker Support, Foyer M
8:00	Exhibition and Poster Displays Open, Hall L 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
	Chair: Katie Richardson Deputy Chair: Dr Belinda Goldsworthy	Chair: Aravind Surapaneni Deputy Chair: Fangjie Qi	Chair: Jens Blotvogel Deputy Chair: A/Prof Mohammad Rahman	Chair: Mengfang Chen Deputy Chair: Dr Cheng Fang	Chair: Michael Stopford Deputy Chair: Sergejus Ustinov
	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	260 EFFECTIVE COMMUNICATION OF RISK - TO COMMUNITIES AFFECTED BY SOIL CONTAMINATION, Michael Stopford, ANCORÉ
10:45 - 11:00					
11:00 - 11:15	39 EMERGING CONTAMINANTS IN WASTE INDUSTRY- CHALLENGES AND SOLUTIONS, Gus Martins, HUESKER Australia	120 PFAS IN BIOSOLIDS: TRANSFER TO SOIL AND CROPS PRESENTS RISKS TO CONSUMERS OF BEEF AND MILK. Summer Streets, Minnesota Pollution Control Agency	66 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 Karistianos, Jacobs
11:15 - 11:30	136 ADDRESSING PFAS CHALLENGES IN WATER: VEOLIA RETURN OF EXPERIENCE IN NORTH AMERICA AND AUSTRALIA. Mr Matt Ead, Veolia		205 ARSENIC OXIDATION AND REMOVAL FROM WATER VIA CORE-SHELL MnO2@LA(OH)3 NANOCOMPOSITE ADSORPTION, Dr. Yulong Wang, The University of Newcastle	100 OCCURRENCE AND DISTRIBUTION OF MICROPLASTIC POLLUTION IN PEATLAND AREAS, Dr. Ngoc Son Hai Nguyen, Thai Nguyen University of Agriculture And Forestry (TUA), Vietnam	174 THE ART OF COMMUNICATING RISKS TO COMMUNITY: STRATEGIES FOR TECHNICAL PROFESSIONALS, Carla Pignatelli, GHD Pty Ltd
11:30 - 11:45	166 FIREFIGHTING FOAM TRANSITION - ARE WE DONE YET? STATUS AND STATE OF THE ART, Mr Simon Dong, Arcadis Australia Pacific	283 EXPLORING THE FATE OF PFAS IN BIOSOLIDS PYROLYSIS THROUGH PYROCO PILOT PLANT, Aravind Surapaneni, RMIT University	266 POTENTIAL OF BUSHFIRES ON THE MINERALOGICAL TRANSFORMATION OF MOST USED ASBESTOS, Girish Choppala, GCER	101 MACHINE LEARNING APPROACHES FOR PREDICTING MICROPLASTIC POLLUTION IN PEATLAND AREAS, Dr. Huu Tuan Tran, Van Lang University (VLU), Vietnam	296 HEAVY METAL IN INDONESIAN PADDY SOILS: STATUS AND IMPLICATION TO ONE HEALTH, Yiyi Sulaeman, National Research and Innovation Agency
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 crcCare	107 PFAS IN BIOSOLIDS - IS EVERYONE MEASURING THE SAME THING? INSIGHTS FROM A PROFICIENCY TESTING STUDY, Mrs Luminita Antin, National Measurement Institute	28 TOWARDS A RISK-BASED APPROACH TO THE TRANSPORT OF SOIL CONTAINING ASBESTOS, Simon Mason, Agon Environmental	168 DISTRIBUTION AND RISK ASSESSMENT OF MICROPLASTICS IN AGRICULTURAL SOILS, Dr Sara Parwin Banu Kamaludeen, Tamil Nadu Agricultural University	256 EFFECTIVE RISK COMMUNICATION: WHAT DOES IT TAKE?, Dr Kate Hughes, Ecology Data Bank Services
12:00 - 12:15	131 KEY PFAS LAND USES IN THE YANGTZE RIVER DELTA OF CHINA: IMPLICATIONS FOR ENVIRONMENTAL MANAGEMENT PRIORITIES, Dr. Yuanyan 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	74 SC-PFAS REMOVAL BY CATIONIC FUNCTIONALISED FLAX, Miss Shaifia Data, University of Auckland	Q&A and Open discussion
12:15 - 13:05	Lunch and Poster Viewing - Hall L				

CONCURRENT SESSION 8

13:05 - 14:50	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
	Chair: Greg Garvey Deputy Chair: Scott Warner	Chair: Dr Anu Kumar Deputy Chair: Mr Saifulah Omar Nasif	Chair: Ms Pierina Otness Deputy Chair: Dr Solmaz Bidast	Chair: Professor Lucian Chukwu Deputy Chair: Katie Richardson	Chair: Dr Belinda Goldsworthy Deputy Chair: Dr Luchun Duan
	Hall N	City Room 1	City Room 2	City Room 3	City Room 4
13:05 - 13:20	258 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	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
13:20 - 13:35					
13:35 - 13:50	276 ADDRESSING KEY UNCERTAINTIES IN RISK ASSESSMENT THROUGH THE LATEST SAMPLING AND ANALYTICAL METHODS FOR CONCRETE IMPACTED BY PFAS AT FIRE TRAINING AREAS, Mr Geraint Williams, ALS	230 ESTABLISHING BASELINE CONTAMINATION OF MICROPLASTICS IN ORGANIC WASTES, Dr Mike Williams, CSIRO	99 DEVELOPMENT OF AN ADAPTIVE FRAMEWORK FOR OPTIMIZING BIOREMEDIATION 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.nipuni P. Welivitiya, GCER- University of Newcastle	25 THIRSTY WORK: CLIMATE-DEPENDENT STOCK WATER SCREENING LEVELS FOR THE BROAD PFAS FAMILY, Katie Richardson, Servensa
13:50 - 14:05	90 ASSESSING THE DISTRIBUTION AND ENVIRONMENTAL RISK OF PFAS AT A HISTORICAL CONCRETE PAD, Dr Matthew Askeland, Ade Consulting Group Pty Ltd	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	15 MICRO-/NANOPLASTICS IN OUR DAILY LIVES, Cheng Fang, UoN	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
14:05 - 14:20	18 REDUCING PFAS LOADS IN STORMWATER AT A FUEL TERMINAL, Mr Stuart Derham, Aurecon	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
14:20 - 14:35	295 BIOAVAILABILITY OF PFOA, PFHXS AND PFOS IN SOIL- METHOD DEVELOPMENT AND RECOMMENDATIONS: IN VIVO STUDY. Luchun Duan, University of Newcastle	34 SELECTIVE GENERATION OF PHYSICAL SEPARATION TRAITS FOR PROCESSING MATERIAL FROM LANDFILL. Dipl.-Ing. Paul Demschar, Montanuniversität Leoben	22 ADVANCES IN THE CHARACTERISATION AND REMEDIATION OF LNAPL-CONTAMINATED SITES: INSIGHTS FROM A COLLABORATIVE EFFORT, Dr Jonás García-Rincón, Legion Drilling	304 QUANTITATIVE ANALYSIS OF FIVE PESTICIDES TO DETERMINE THEIR PRE-HARVEST INTERVAL IN SRI LANKA BITTER GOURD, Mrs Yoshida Lakshani, University of Newcastle	149 VAPOUR INTRUSION RISK ASSESSMENT - DO YOU HAVE THE RIGHT DATA?, Mr Ken Kiefer, ERM
14:35 - 14:50	301 DYNAMICS OF PER- AND POLYFLUOROALKYL SUBSTANCES (PFAS) AND EXPOSURE PATHWAYS IN AFFF-IMPACTED MINING SITES OF WESTERN AUSTRALIA. Fangjie Qi, University of Newcastle	Q&A and Open discussion	181 VARIETAL DIFFERENCE IN GRAIN TOTAL AND SPECIATED ARSENIC CONCENTRATIONS OF IRRIGATED RICE IN BANGLADESH, Mr Md Imran Ullah Sarkar (presented by Associate Professor Mohammad Mahmudur Rahman), University of Newcastle	248 EMERGING CONTAMINANTS IN CROPS IRRIGATED BY RECYCLED WASTEWATER, Dr Sijig Li, CSIRO	244 SOIL BIOAVAILABILITY - THE MISSING (BUT POWERFUL) STEP, Dr Belinda Goldsworthy, enRiskS
14:50 - 15:15	Afternoon Tea and Poster Viewing - Hall L				

PLENARY SESSION 4 & 5

Hall N	
15:15 - 15:45	Plenary Session 4: Caring for Land and Water' as Cherished by the Indigenous Community Professor Peter Radoll FRSN MAICD, Radoll & Associates Williamstown, Australia
15:45 - 16:15	Plenary Session 5: Preventing and managing soil contamination: the EU approach. Dr Bavo 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

City Rooms 1-3	
9:00 - 10:30	Technical Tour departing from West entrance of Adelaide Convention Centre (Meet at 8:30am for a 9:00AM departure) PFAS Research Symposium (Invite only) City Rooms 1-2
11:00 - 12:30	
13:30 - 15:00	
15:30 - 17:00	

Wednesday, 18 September 2024

Thursday, 19 September 2024

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 Pardini, 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 MECHANO-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 Kuai, 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	REMEDICATION OF HYDROPHOBIC SOILS USING MICROBIAL TREATMENT IN CONJUNCTION WITH BIOCHAR AND CLAY, Mrs. Naveeda Majid (presented by Dr Mezbau 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 NANOCCLAYS, 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
278	P44	NOVEL ENHANCED DEFLUORINATION OF PFAS BY BIOCHAR-ASSISTED ULTRASOUND COUPLING FERRATE: PERFORMANCE AND MECHANISM, Dr Yongjia Lei, Sichuan Agricultural University
280	P45	FATE AND BEHAVIOUR OF JET FUEL ADDITIVES IN SOIL, Dr Chamila Samarasinghe (presented by Dr Yanju Liu), Global Centre for Environmental Remediation
142	P46	UNVEILING THE PAST THROUGH HISTORICAL BUSINESS DIRECTORIES, Mr Howard Waldron, Lotsearch Pty Ltd
78	P47	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	P48	LOW COST MECHANOCHEMICAL SYNTHESIS OF ORGANOCCLAYS FOR REMEDIATING PFOS AND METAL CO-POLLUTANTS, Dr Bhabananda Biswas, University of Newcastle
303	P49	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	P50	MICROPLASTIC REMOVAL USING BIOCHAR DERIVED FROM LOW-COST AGRICULTURAL RESIDUES , Mr Aderemi Adeleye, University of Newcastle
305	P51	BIO-REACTIVE MATERIAL-SUPPORTED DELIVERY OF PHOSPHATE SOLUBILISING BACTERIA FOR SUSTAINABLE BIOFERTILIZERS, Rafique Uddin, Global Center for Environmental Remediation (GCER)