

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
		City Room 1	City Room 2	City Room 3	City Room 4	Room L81
		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 Characterization, 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 (DRAFT 6.09.24)
	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 Characterization, 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				
	17.30 - 18.30	Welcome drinks, Foyer M				

Monday, 16 September 2024	Monday, 16 September 2024					
	Exhibition and Poster Display Open, Hall L Speaker Support, Foyer M Registration Open, Foyer M					
	OFFICIAL CONFERENCE OPENING					
	Hall M					
	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 Sergio Litnov, 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 M					
	10.45 - 11.00	209 NONTARGET SCREENING FOR PFAS: A DETAILED LOOK BEHIND THE SCENES OF CONTAMINATED SITES, Prof. Christian Zwilerer, University of Tübingen	213 FATE AND TRANSPORT OF PFAS CONSIDERING BOTH PER- AND POLYFLUORINATED SUBSTANCES, FLUOROCARBONIC ACID, PHYSICAL CHEMISTRY AND MULTIPLE USES, Dr. Ian Ross, CDM Smith	119 HIGH RESOLUTION SITE CHARACTERISATION AND IMPLICATIONS TO CONCEPTUAL SITE MODELS, Dr. Jonás García-Rincón, Legion Dilling	309 EMERGING TECHNOLOGIES FOR CONTAMINATED SITES, Ningfang Chen, Chinese Academy of Sciences	300 LEGACY CONTAMINATION: EPA VICTORIA PERSPECTIVE, Dr. Lee Nieu, EPA VIC
	11.00 - 11.15					
	11.15 - 11.30	47 NON-TARGETED SCREENING FOR PFAS USING DIRECT INFUSION ULTRAHIGH RESOLUTION ESI/MS MASS SPECTROMETRY, Robert Young, CSIRO	53 HYDRATED ELECTROLYTES: THE FUTURE OF PFAS DEGRADATION, M. Mostafaei, University of Adelaide	31 ACHIEVING CLEANLINESS: REVISITING CONCEPTUAL SITE MODEL TO SUCCESSFULLY REMEDIATE AN ASBESTOS IMPACTED SITE, M. Benedict Robinson, Stattec Australia	111 INNOVATIVE USE OF ALBERTINO TO ENHANCE ASBESTOS AND ASBESTOS-IN-SOIL (ASBIS) ASSESSMENT AND REMEDIATION PROJECTS, M. Ross McFarland, Aecom	41 ENVIRONMENTAL GUIDANCE FOR THE HUMAN HEALTH RISK ASSESSMENT OF VOLATILE CHLORINATED HYDROCARBON VAPOUR INTRUSION, Dr. Ian Delaney, SA Health
	11.30 - 11.45	217 APPLICATIONS OF HIGH RESOLUTION MASS SPECTROMETRY IN PFAS ANALYSIS, Dr. Jacobo Jasso, AECOM	152 VOLATILE PFAS MONITORING IN OFFGAS FROM FULL SCALE FOAM FRACTIONATION AT A LIQUID WASTE FACILITY, Simon Dong, Arcadis	40 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.	43 VETIVER FLOATING WEEDS FOR CLEANUP OF LAKE WATERS, Dr. Sara Parvizi-Banu Komarudin, Teriti Hudu Agricultural University	255 BIOAVAILABILITY BASED SOIL GUIDELINES, Laureate Prof. Ravi Naidu, University of Newcastle
	11.45 - 12.00	91 QUANTIFICATION OF PERFLUOROPOLYETHERS AND POLYFLUOROPOLYETHERS (PFAS) CONCENTRATION IN ESTUARINE SYSTEMS: UNDERSTANDING THE INFLUENCING FACTORS, M. Hovvaneet Singh, ADE Consulting Group	143 APPLICATION OF PFAS FOR FORENSIC – EXAMINING THE DISTRIBUTION OF PFAS IN SOURCES AND RECEPTORS, M. Jai Singh, CDM Smith	244 IMPACT OF FLOW METERS ON GROUND GAS RISK ASSESSMENTS, Nick Woodroffe, Tetra Tech Collyer	116 REMEDIATION POTENTIAL OF MORIS ALBA L. INTERCROPPED WITH SEDUM ALBIDUM L. AND ARUNDINODAX L. FOR METAL-CONTAMINATED SOIL IN HUNGARY, Professor Zsuzsanna Gácsi, Central South University	71 TECHNICAL CHALLENGES FOR CONTAMINATED LAND FRACTIONATION: WHEN CONSIDERING RECENT ENHANCED VAPOUR INTRUSION GUIDANCE, Stanley Howell, Jacobs
	12.00 - 12.15	13 CAPTURING FLUOROCARBON RADICALS DURING PFAS INCINERATION USING MOLECULAR BEAM PROTONS MASS SPECTROMETRY, Dr. Wenxiao Lu, CSIRO	154 ENHANCING PFAS IMMOBILIZATION IN CONTAMINATED SOILS USING ACTIVATED CARBON AND GRASS UNDER SIMULATED RAINFALL, M. Minshu Long, University of Adelaide	238 FROM POLLUTION PATHWAYS TO SOLUTION PATHWAYS, Dr. Oliver Kopfrke, GHD Pty Ltd	189 AEROBIC CO-COMPOSTING DEGRADATION OF HEAVILY DROWN-CONTAMINATED FIELD SOIL: A STUDY OF BACTERIAL COMMUNITY, Dr. Hui Xian Tan, Thai Nguyen University of Agriculture and Forestry (Vietnam)	185 PROMISE JET FUEL ADDITIVES USING CHEM-1 AND IMAP, Yanyan Lu, University of Newcastle
	12.15 - 12.30	Lunch and Poster Viewing - Hall L				
	PLENARY SESSION 1					
	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	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 M						
Sponsored by						
SGS Where you need to be sure						
14.05 - 14.20	155 YOUR LABORATORY'S REQUIREMENTS FOR PFAS ANALYSIS IN NEW DRAFT 3.0, Nathan Cornhill, SGS Australia	160 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 Allison, Pylon Environmental Inc.	255 NON-ORGANIC ON-SITE REGENERATION OF PER- AND POLYFLUOROPOLYETHERS (PFAS) AS A REMEDIATION ALTERNATIVE FOR GROUNDWATER CONTAMINATION, M. Hovvaneet Singh, ADE Consulting Group	244 MASS FLUX-BASED CRITERIA FOR THE MANAGEMENT OF GROUNDWATER CONTAMINATION, Greg Davis, CSIRO	
14.20 - 14.35						
14.35 - 14.50	340 EMERGING TRENDS IN PFAS ANALYSIS: FOCUS ON VOLATILE PFAS AND OTHER FLUORINATED COMPOUNDS, Dr. Courtney Miller, Agilent Technologies	132 SYSTEMATIC MASS FLUX REVIEW OF DEFENCE'S 28-SITE PFAS MANAGEMENT PROGRAM, M. Jonathan Ho, AECOM	113 USE OF REAL TIME GROUND GAS MONITORING GASFLUX DEVICES TO SUPPORT RISK ASSESSMENT AND MITIGATION, M. Alessandro Sica, Servintec Pty Ltd	377 INSIGHTS INTO THE REMEDIATION SYSTEM FOR THE DEGRADATION OF POLYCYCLIC AROMATIC HYDROCARBONS, Zhikang Zhao, Institute of Soil Science, Chinese Academy of Sciences	309 AN OVERVIEW OF PROGRESS FROM NICOLE'S PFAS WORKING GROUP, M. Garrett Williams, A/L Laboratories	
14.50 - 15.05	29 A RIGOROUS APPROACH TO PFAS ANALYSIS IN SOLID SAMPLES, M. Alex Kelle, University of Adelaide	302 THE U.S. DEFENSE DEPARTMENT'S PROGRAMMATIC EFFORTS TO ASSESS PFAS LEACHING FROM AFFECTED SITES, Dr. Richard Anderson, SERP/EDCF	204 RAPID ON-SITE DETECTION OF UNDERGROUND PETROLEUM PIPELINE LEAKS AND RISK ASSESSMENT USING PORTABLE GAS CHROMATOGRAPHY-MASS SPECTROMETRY AND SOIL PHASE MICROEXTRACTION, Ying Cheng, University of Newcastle	203 HIGH-ENERGY IRRADIATION OF ACTIVATED CARBON SUBSTITUTES FOR IN-SITU REMEDIATION OF ORGANIC CONTAMINANTS: THE AUSTRALIAN EXPERIENCE, Dr. Jonás García-Rincón, Legion Dilling		
15.05 - 15.20	284 ADVANCED PREDICTION AND DETECTION OF PFAS IN GROUNDWATER: A COMPARATIVE STUDY USING ECDN AND ERM TECHNIQUES, M. Assad Sirivastava, Indian Institute of Information Technology		150 PFAS IN THE VADOSE ZONE – A CONCEPTUAL MODEL PART 2: APPLICATION TO AUSTRALIAN SOILS, Dr. Peter Beck, GHD Pty. Ltd.	94 ADVANCEMENTS IN REDUCTIVE MANTO MATERIALS FOR REMEDIATION OF DIVERSE EMERGING AND PRIORITY POLLUTANTS: EFFICACY OF REACTIVE MATERIALS DEVELOPED BY NAKAMURA & CO., LTD., HOSONUMA, JAPAN, Dr. Ravi Singh, Hochschule Weimer, Weimar, Germany	234 SUSTAINABILITY AND REMEDIATION: THE HIDDEN COST OF DOING TOO FAR, Geologist Katrina Hill, GHD	
15.20 - 15.35	153 ANALYSIS OF PFAS IN AIR: VALIDATION & METHODOLOGY, Dr. Andrew Wight, SGS Australia Pty. Ltd.	288 ADVANCED PREDICTION AND DETECTION OF PFAS IN GROUNDWATER USING DEEP-LEARNING CONVOLUTIONAL NEURAL NETWORK (ECON) TECHNIQUE, To Ujima, SA M V Government Arts and Commerce College, Dr. Leelavathi Ann D T Ramesh	177 USING THE HYDRAULIC PROFILING TOOL (HPT) TO INVESTIGATE GROUNDWATER FLOW PATHTHAYS AT A SITE WITH SALTWATER INTRUSION, Ismael Benetti, GHD	214 ROOF PROTECTOR MODULATION REVEALS NOVEL INSIGHTS INTO COLD-DRY TOLERANCE IN BRASSICA RAPES L. L. Dr. Sivanur Kumar Roy, International University of Business Agriculture and Technology	20 WASTE DERIVED RILL AUDITS: WHAT ARE THEY AND WHEN COULD THEY BE APPLICABLE, M. Kerry Kart, 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 M						
Sponsored by						
GHD						
16.05 - 16.20	182 DETECTION & BIOACCUMULATION OF LEGACY AND NOVEL PFAS IN THE (P)ARTIAL 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, Romanya Iyer, Novotek Biocore	87 VARIABILITY AND UNCERTAINTY ASSOCIATED WITH SAMPLING, ANALYSIS, AND RISK ASSESSMENT, M. Hui Atabaki, SCHW Consultant	109 HALOGENATED HALOXYLATES AND ITS RELEVANCE FOR SUSTAINABLE REMEDIATION OF CONTAMINANTS FROM WATER, Dr. Brando Basso, GCEB, University of Newcastle	140 THE IMPORTANCE OF CLIMATE TO REMEDIAL ACTION AND TECHNOLOGY PERFORMANCE FOR GROUNDWATER CLEANUP, Scott Warner, University of Newcastle, Australia / BSI Group USA	
16.20 - 16.35				237 INNOVATIVE MOF-CHITOSAN INTEGRATION TO REDUCE MICROPLASTIC POLLUTION IN FARMHOUSE ORGANIC MEMBRANES, M. Mahdoshah 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 Oumman, Aecom	184 ASSESSING THE ROLE OF MACHINE LEARNING MODELS IN GROUNDWATER CONTAMINANT MONITORING AND MANAGEMENT, Dr. ASAD SRINIVASULU, University of Newcastle	41 REMOTELY SENSED LAND MANAGEMENT SOLUTIONS, Amy Shiger, Stattec Australia	110 UTILISING AUSTRALIAN CLAY MINERALS TO COMBAT METHANE EMISSION FROM CATTLE BIOPDS, Dr. M. Ravi Kumar, The University of Newcastle	
16.50 - 17.05		92 PFAS AND WASTE WATER TREATMENT PLANTS – STRATEGIES FOR AN "END-OF-PIPE" PROBLEM, Dr. Matthew Anderson, ADE Consulting Group	148 PFAS IN THE VADOSE ZONE – A CONCEPTUAL MODEL PART 1: KEY PROCESSES THAT REQUIRE CONSIDERATION, Dr. Peter Beck, GHD Pty. Ltd.	77 OPTIMISATION OF A GROUNDWATER TREATMENT SYSTEM DURING COMMISSIONING, Al. Rofiq, Auzon Indonesia	127 EFFECTS OF MANAGEMENT PRACTICES ON SOIL ORGANIC CARBON DYNAMICS IN RANGELAND ECOSYSTEMS, Dr. Samira Boud, University of Newcastle	
17.05 - 17.20	247 A STUDY ON PER-FLUORINATED AND POLYFLUORINATED POLYMER- AND CARBON-BASED FILMS EXAMINES TRANS- AND MULTIGENERATIONAL EFFECTS OF THESE PERSISTENT PER- AND POLYFLUORINATED COMPOUNDS, Dr. Tammy Sana, GCEB, The University of Newcastle	21 THERMAL DESTRUCTION OF PFAS: HEAD GROUP DEPENDENCE AND KINETIC BOTTLENECKS, Jens Bollwag, CSIRO	241 MULTIPLE SOURCE EVALUATION FOR PFAS SUPPLEMENTED WITH EMERGING DIGITAL TOOLS, Tom Fawcett, GHD	51 SYNERGETIC ADSORPTION AND PHOTOCATALYTIC DEGRADATION OF METHYLENE BLUE (MB) DYE OVER EFFECTIVE ML-888FE) MOF, Somnath Sodeghy, Ph.D. Candidate	138 NATURAL HAZARDS, CLIMATE CHANGE & CONTAMINATED LAND, M. Howard Wadston, Lohsearch Pty Ltd	
17.20 - 17.35	240 ULTRASONIC BATTERY COMPONENTS ARE AT THE NEXUS OF SUSTAINABLE ENERGY AND ENVIRONMENTAL PFAS RELEASE, Associate Professor Jennifer Goettli, Texas Tech University	47 PFAS REMOVAL WITHIN A BIOLOGICAL PROCESS, M. Daria Stokar, Emerging Compounds Treatment Technologies	108 COMBINING HANDHELD XRF ANALYSIS AND ARBOS FOR RISK EVALUATION AND REMEDIATION PLANNING AT AN ABANDONED ARSENIC MINE, Dr. Liang Wang, The University of Newcastle	196 ADVANCING PFAS SEPARATION FROM SOLUTION USING HIGH SHEAR MIXTURES, Dr. Shweta Khatke, University of Adelaide	135 CLIMATE RESILIENCE IN CONTAMINATED SITES REMEDIATION, M. Ivan Kwan, CDM Smith Australia	
Drinks and Poster Session - Hall L Sponsored by						
VEOLIA						
18.45 - 19.05	Cleanup in The Pub					

Tuesday, 17 September 2024

Wednesday, 18 September 2024

7:30-8:00	Speaker Support, Foyer M Exhibition and Poster Displays Open, Hall L Registration, Foyer A				
PLENARY SESSION 3					
Hall M					
8:20-9:15	Welcome Day 3				
9:15-10:00	Plenary Session 3: <i>Toxicity, Endocrine Disrupting Chemicals and Health: Effects on the Neuroendocrine System</i> 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 M	City Room 1	City Room 2	City Room 3	City Room 4
10:30-10:45					
10:45-11:00	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 Boll, RMIT University	291 HALF A CENTURY OF SLOOOWPROGRESS ON RISK BASED REMEDIATION - LESSONS AND OPPORTUNITIES TO ACCELERATE, Paul Nathaniel, Local Quality Management Ltd Nottingham	80 CHARACTERIZATION AND ECOLOGICAL RISK ASSESSMENT OF MICROPLASTICS IN SEDIMENTS OF A TROPICAL WEST AFRICAN LAGOON ECOSYSTEM, Professor Lucien Chikwe, University of Lagos	280 EFFECTIVE COMMUNICATION OF RISK - TO COMMUNITIES AFFECTED BY SOIL CONTAMINATION, Michael Stophard, ANCCRED
11:00-11:15	39 EMERGING CONTAMINANTS IN WASTE INDUSTRY: CHALLENGES AND SOLUTIONS, Gus Morris, HUSSEY Australia	120 PFAS IN BIOSOLIDS: TRANSFER TO SOIL AND CROPS PRESENTS RISKS TO CONSUMERS OF BEEF AND HAM, Summer Street, Minnesota Pollution Control Agency	44 FROZEN IN TIME: DETECTING LEGACY HYDROCARBON CONTAMINATION USING PASSIVE SOIL GAS SAMPLING AT WICKES STATION, EAST ANTHARCICA, Kathryn East, Australian Antarctic Division	79 ADVANCED MATERIALS AND MEMBRANES FOR ENHANCED MICROPLASTIC/NANOPLASTIC AND SYNERGISTIC POLLUTANT RESISTANCE, Dr Masoumeh Zargar, Edith Cowan University	70 DEVELOPING FRAMEWORKS THAT SUPPORT COMMUNICATION OF RISK/OF AIR RISK AND RESPONSE - Neil Kerkorian, Jacobs
11:15-11:30	136 ADDRESSING PFAS CHALLENGES IN WATER- VECULA RETURN OF EXPERIENCE IN NORTH AMERICA AND AUSTRALIA, IM MOUT Ead, Vietot	203 ARSENIC OXIDATION AND REMOVAL FROM WATER VIA CORE-SHELL ANIOXIDE/LAICH3 NANOCOMPOSITE ADSORPTION, Dr Yutong Wang, The University of Newcastle	100 OCCURRENCE AND DISTRIBUTION OF MICROPLASTIC POLLUTION IN PEATLAND AREAS, Dr Ngoc Son Ha Nguyen, Thai Nguyen University of Agriculture And Forestry (Tua), Vietnam	174 THE ART OF COMMUNICATING RISKS TO COMMUNITY: STRATEGIES FOR TECHNICAL PROFESSIONALS, Carla Pignatelli, GHF Pty Ltd	
11:30-11:45	166 REFRIGHTING FOAM TRANSITION - ARE WE DONE YET? STATUS AND STATE OF THE ART, IM Simon Dong, Arcadis Australia Pacific	283 EXPLORING THE FATE OF PFAS IN BIOSOLIDS: PYROLYSIS THROUGH PYROCO PILOT PLANT, Aaround Sunsuporn, RMT University	266 POTENTIAL OF BIURETHERS ON THE MINERALOGICAL TRANSFORMATION OF MOIST USED ASBESTOS, Gish Choppo, GCEB	101 MACHINE LEARNING APPROACHES FOR PREDICTING MICROPLASTIC POLLUTION IN PEATLAND AREAS, Dr Hui Tuan Tran, Thai Nguyen University of Agriculture And Forestry (Tua), Vietnam	297 ASSESSING THE IMPACT OF HEAVY CHEMICAL FERTILIZER USE ON SOIL HEALTH IN CAMEROON, Naborio Georges Mafou, University of Dschang
11:45-12:00	176 INVESTIGATING THE TOXICITY OF PERFLUOROOCTANE SULFONIC ACID (PFOS) ON GROUNDWATER BIOSOLIDS AND ANTIMICROBIALS, Dr H.A.A. Ayarola Woyawoyadana, The University of Newcastle and enScience	107 PFAS IN BIOSOLIDS - IS EVERYONE MEASURING THE SAME THING? INSIGHTS FROM A PROFICIENCY TESTING STUDY, IMs Lumbini Arin, National Measurement Institute	28 TOWARDS A RISK-BASED APPROACH TO THE TRANSPORT OF SOIL CONTAINING ASBESTOS, Simon Mason, Argon Environmental	168 DISTRIBUTION AND RISK ASSESSMENT OF MICROPLASTICS IN AGRICULTURAL SOILS, Dr Sara Parvizi Banu Karamaladeen, Tamil Nadu Agricultural University	296 HEAVY METAL IN INDOCHINEAN PADDY SOILS: STATUS AND IMPLICATION TO ONE HEALTH, Vity Solomon, 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 Yuanyuan 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, Aijazat Mohammad Mohamud Rahman, The University of Newcastle	74 SC-PFAS REMOVAL BY CATIONIC FUNCTIONALISED FLAX, IMs Shalpi Datta, University of Auckland	256 EFFECTIVE RISK COMMUNICATION: WHAT DOES IT TAKE? Dr Kate Hughes, Ecology Data Bank Services
12:15-12:30	Lunch and Poster Viewing - Hall L				
CONCURRENT SESSION 8					
13:05-14:30	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 M	City Room 1	City Room 2	City Room 3	City Room 4
13:05-13:20					
13:20-13:35	258 USE OF RISK-BASED SAMPLING METHODS AND "TOTAL PFAS RISK" TO OPTIMIZE ASSESSMENT AND REMEDIATION OF PFAS-CONTAMINATED SITES, Roger Brewer, Howard Department Of Health	299 WHAT'S URGENT AND OPAQUE? A DISCUSSION OF CIRCULAR ECONOMY, ESG AND WASTE, Nite Smith, Telus	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	249 LIVING WITH CHEMICALS: UNDERSTANDING THE SOURCES AND RISK FROM CONTAMINANTS IN HOMES AND GARDENS, Kara Py, Environment Protection Authority Victoria	119 MINNESOTA'S APPROACH TO DERIVATION OF PFAS CRITERIA FOR THE PROTECTION OF HUMAN HEALTH, Summer Street, Minnesota Pollution Control Agency
13:35-13:50	274 ADDRESSING KEY UNCERTAINTIES IN RISK ASSESSMENT THROUGH THE LATEST SAMPLING AND ANALYTICAL METHODS FOR CONCRETE IMPACTED BY PFAS AT FIRE TRAINING AREAS, IM Geoff Wilkins, ALS	230 ESTABLISHING BASELINE CONTAMINATION OF MICROPLASTICS IN ORGANIC WASTES, Dr Mike Williams, Cato	77 DEVELOPMENT OF AN ADAPTIVE FRAMEWORK FOR OPTIMISING BIOREMEDIATION IMPLEMENTATION AT A FRACTURED BEDROCK CHLORINATED SOLVENT DNAPL SITE, Dr Matthew Lee, Geosyntec	213 EXTRACTION OF GLYPHOSATE AND AMINOMETHYLPHOSPHONIC ACID FROM CONTAMINATED AUSTRALIAN SOILS - IMs Widiqurni P. Widiyana, GCEB-University of Newcastle	23 THIRTY WORK: CLIMATE-DEPENDENT STOCK WATER SCREENING LEVELS FOR THE BROAD PFAS FAMILY, Kate Richardson, Servintia
13:50-14:05	90 ASSESSING THE DISTRIBUTION AND ENVIRONMENTAL RISK OF PFAS AT A HISTORICAL CONCRETE PAD, Dr Matthew Askland, Aika Consulting Group Pty Ltd	33 TOWARDS SUSTAINABLE WASTE MANAGEMENT: UNDERSTANDING HEAVY METAL ENRICHMENT IN MWM BOTTOM ASH, IMs Thomas Kemnitz, Montanuniversität Leoben	81 OPTIMIZING CHEMICAL FIXATION TECHNIQUES FOR EFFECTIVE LEAD IMMOBILIZATION IN GARBAGE WASTE, IMs Emily Bloomfield, Waste Environmental Service	15 MICRO-/NANOPLASTICS IN OUR DAILY LIVES, Cheng Fang UoN	38 MEASURING THE IMPACT OF BIO-ACCESSIBLE HUS ON COOKED RICE FROM CHROMITE-ASBESTOS MINE WASTE CONTAMINATED SOIL: PREDICTING ANTHROPOGENIC AND DIETARY RISK BY SURFACING ACCESS, IMs ZOUHA BANERJEE, Indian Statistical Institute
14:05-14:20	18 REDUCING PFAS LOADS IN STORMWATER AT A FUEL TERMINAL, IM Stuart Delfino, Aurecon	173 CLOSING THE LOOP-ON HAPPEN: AN AUSSIE TRIAL, Dr Anu Kumar, CSIRO	189 CO-ADSORPTION OF ANTIMONY AND METALS ONTO IRON MINERALS, IMs Biele Cleland, GCEB	214 ASSESSING THE RISK OF CONTAMINANTS OF EMERGING CONCERN IN WASTEWATER USING EFFECTS-BASED METHODS, Ning Sun, EPA Victoria	143 ASSESSING PFAS RISK FROM SITE SOURCES - A MASS FLUX APPROACH COMPARED TO BIOTA CONCENTRATION DATA, Kathleen Potholoy, ERM Australia Pty Ltd
14:20-14:35	265 BIOAVAILABILITY OF PFOS, PHOS AND PFOS IN SOL-METHOD DETERMINATION AND RECOMMENDATIONS IN VIVO STUDY, Lichun Du, University of Newcastle	34 SELECTIVE GENERATION OF PHYSICAL SEPARATION TRAITS FOR PROCESSING MATERIAL FROM LAMINATE, Doping Paul Demichlor, Montanuniversität Leoben	22 ADVANCES IN THE CHARACTERIZATION AND REMEDIATION OF URANIUM-CONTAMINATED SITES: INSIGHTS FROM A COLLABORATIVE EFFORT, Dr Jonás García-Rodríguez, Legan Dilling	304 QUANTITATIVE ANALYSIS OF FIVE PESTICIDES TO DETERMINE THEIR PRE-HARVEST INTERVAL IN 36 LANDS BITTER GOURD, IMs Yoshiko Laborn, University of Newcastle	149 VAPOUR INTRUSION RISK ASSESSMENT - DO YOU HAVE THE RIGHT DATAS, IM Ken Keller, ERM
14:35-14:50	301 DYNAMICS OF PER- AND POLYFLUORINATED SUBSTANCES (PFAS) AND EXPOSURE PATHWAYS IN AFF-IMPACTED MINING SITES OF WESTERN AUSTRALIA, Fongqi Qi, University of Newcastle	310 FOOD CONTAMINATION INCLUDING PER- AND POLY-FLUORINATED SUBSTANCES (PFAS) SAMPLING AND ANALYSIS, IMs Min Hong (Rose) Nguyen, Romacell	164 ASBESTOS IN THE SOUTH PACIFIC: CLEAN-UP AND RISKS DURING NATURAL DISASTERS, IMs Avin Choud, The University of the South Pacific	246 EMERGING CONTAMINANTS IN CROPS IRRIGATED BY RECYCLED WASTEWATER, Dr Ségolène CSIRO	244 SOIL BIOAVAILABILITY - THE MISSING [BUT POWERFUL] STEP, Dr Belinda Goldsworthy, enRisk
14:50-15:15	Afternoon Tea and Poster Viewing - Hall L				
PLENARY SESSION 4 & 5					
Hall M					
15:15-15:45	Plenary Session 4: <i>Caring for Land and Water' as Cherished by the Indigenous Community</i> Professor Peter Rodall FROM MAICD, Rodall & Associates Wollombroun, Australia				
15:45-16:15	Plenary Session 5: <i>Preventing and managing soil contamination: the EU approach</i> Dr Bova Plestien Policy officer - Soil team Directorate-General for Environment of the European Commission, Brussels (Virtual)				
16:15-16:45	Conference Closing - Award Presentation, Delegate Rise Announcements, Closing Remarks				

Thursday, 19 September 2024

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 (Insite only) City Rooms 1 & 2
11:00-12:30		
13:30-15:00		
15:30-17:00		

Wednesday, 18 September 2024

## 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
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.
19	P3	HUNTING THE SOURCE, Brad Dermody, Aurora Environmental
23	P4	INVESTIGATION OF MOBILE, RESIDUAL, AND ENTRAPPED LNAPL USING LASER-INDUCED FLUORESCENCE AS A LINE OF EVIDENCE, Dr. Jonás García-Rincón, Legion Drilling
35	P5	OBSERVATIONS ON THE ROAD TO ENHANCING NSZD AT A PETROLEUM PIPELINE RELEASE SITE, Matt Rousseau, GHD
37	P6	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	P7	ULTRASONIC DEFLUORINATION OF PFAS: EFFICIENCY VERSUS ABSOLUTE AMOUNT, Mr Olalekan Simon Awoyemi, GCER, University of Newcastle
43	P8	PFAS ANALYSIS ON THE SCIEX 7500 SYSTEM: 15 MONTHS OF ROBUSTNESS DATA, Dr Charlie Liu, SCIEX
45	P9	PEOPLE AND PFAS: QUANTITATION IN HUMAN SERUM AND BLOOD USING VOLUMETRIC ABSORPTIVE MICROSAMPLING (VAMS), Dr Charlie Liu, SCIEX
51	P10	LEAD ABATEMENT AND ISOLATION IN VULNERABLE COMMUNITIES, Dr Henry Ellis, Enviropacific
54	P11	DETERMINING THE SOURCE OF ODOUR FROM A STORMWATER DISCHARGE USING MULTIPLE LINES OF EVIDENCE APPROACH, Mr. Roderick Zhang, WSP Australia
72	P12	MANAGING THE RISK OF SAMPLING PFAS AT A CHLORINATED HYDROCARBON SITE, Sid Park, Jacobs
75	P13	REINFORCING THE NEED FOR A MIXED-GAS APPROACH TO OPTIMISE PFAS REMOVAL EFFICIENCY IN FOAM FRACTIONATION, Mr Justin Baulch, Evocra Pty Ltd
93	P14	MAKE YOUR OWN SUSTAINABLE AND GREEN LAB GRADE NITROGEN GAS, Dr Nicole Pendini, PEAK Scientific
102	P15	FARMERS' PERCEPTION REGARDING GREENHOUSE GAS EMISSIONS FROM RICE CULTIVATION IN BANGLADESH AND MITIGATION POTENTIAL, Mr Md Maruf BILLAH, Global Centre For Environmental Remediation
105	P16	STABILIZATION AND REDUCTION OF THE SHORT- AND LONG-CHAIN PER- AND POLY-FLUOROALKYL SUBSTANCES IN CONTAMINATED SOIL, Dr Rahim Shahrokhi, Seoul National University
103	P17	SOIL VAPOUR CONCENTRATION PROFILING TO IDENTIFY CONTAMINANT SOURCE ZONES USING THE NEW HEADSPACE-IN-VIAL SAMPLING & ANALYSIS METHOD, Mr Adrian Heggie, WSP Australia
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122	P19	THE MACHANO-CHEMICAL EFFECT OF BALL MILLING ON VARIOUS HALLOWSITE NANOTUBES AND THEIR CARBON CAPTURE PERFORMANCE, Mr Siavash Davoodi, University of Newcastle
128	P20	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
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146	P25	DEVELOPMENT OF AN ON-SITE THRESHOLD DETECTION TOOL FOR HYDROCARBON CONTAMINATION IN SOILS, Ms. Deeksha Beniwal, Ziltek
147	P26	ARSENIC CONTAMINATION IN A CREEK ADJACENT TO A FORMER GOLD MINING: PHU LEK, LOEI PROVINCE THAILAND, Assoc. Prof. Netnapid Tantemsapaya, Suranaree University Of Technology
154	P27	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	P28	UNLOCKING THE POTENTIAL OF VERMICOMPOST: ENHANCING SOIL HEALTH AND MITIGATING POLLUTION, Ms. Monika Mahajan, Banaras Hindu University
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171	P30	FROM CONVENIENCE TO CONCERN: MICROPLASTIC SHEDDING BETWEEN BOTTLES AND CAPS IN CONSUMER PRODUCTS, Mr Siyuan Liu, University of Newcastle
178	P31	PFAS CONTAMINATION IN POULTRY FARMS, Roheela Yasmeen, Lahore Garrison University
179	P32	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
181	P33	VARIETAL DIFFERENCE IN GRAIN TOTAL AND SPECIATED ARSENIC CONCENTRATIONS OF IRRIGATED RICE IN BANGLADESH, Mr Md Imran Ullah Sarkar (presented by Md Tofail Hosain), The University of Newcastle
183	P34	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	P35	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	P36	ECO-FRIENDLY AND ECONOMICALLY AFFORDABLE NANOENCAPSULATED PESTICIDE FORMULATION: A FRONTIER IN NEXT GENERATION AGRICULTURE, Dr Santosh Kumar Paul, The University of Newcastle, Australia
207	P37	ADDRESSING FOOD SAFETY IN URBAN AGRICULTURE, Dr Md Meftaul Islam, The University of Newcastle
208	P38	DEGRADATION OF HERBICIDES IN VARIED AUSTRALIAN SOILS: POSSIBLE IMPACTS ON NON-TARGET BIOTA, Aney Parven, The University of Newcastle
209	P39	HEAVY METAL CONTENT IN WATER, SOIL AND PLANT ADJACENT TO TEXTILE INDUSTRY, Ms Kamrun Nahar Mousomi, GCER, University of Newcastle, Australia
211	P40	ARE BIOPESTICIDES EFFECTIVE AGAINST BRINJAL PEST?, Fatima Farhana, GCER, University of Newcastle
212	P41	THE BIOAVAILABILITY REDUCTION OF COPPER IN BIOSOLIDS BLENDED WITH BENTONITE IN AGRICULTURAL UTILIZATION, Associate Professor Dr. Thammared Chuasavathi, Khon Kaen University
215	P42	REMEDIATION OF HYDROPHOBIC SOILS USING MICROBIAL TREATMENT IN CONJUNCTION WITH BIOCHAR AND CLAY, Mrs. Naveeda Majid (presented by Dr Mezbaul Bahar), University of Newcastle
219	P43	SPATIAL VARIATION OF HEAVY METAL(LOID)S IN PADDY SOIL OF CKDU ENDEMIC AREA , Dr Mudalige Kulathunga (presented by Dr Ayanka Wijayawardena), crcCARE
222	P44	CARBAMAZEPINE TOXICITY IN LEMNA SP., Mrs Andrea Carpio, University of Newcastle
223	P45	INFLUENCE OF POLYETHYLENE AND POLYVINYL CHLORIDE MICROPLASTICS ON SEED GERMINATION OF BARLEY AND MUNG BEAN, Ms Tapati Roy, GCER, The University of Newcastle
228	P46	THE ROLE OF GEOCHEMISTRY AS A FUNCTION OF ALLUVIAL FAN AGING IN ORGANIC CARBON STABILISATION, Dr Amir Mohseni, University of Newcastle
232	P47	QUANTIFYING GROUNDWATER PROCESSES ALONG THE MURRAY VALLEY BY INTERPRETING TIME SERIES DATA USING IMPULSE RESPONSE FUNCTIONS, Dr Mark Hocking, Tetra Tech Coffey
242	P48	TRANSFORMATION OF PFAS-PRECURSORS BY CO-METABOLIC BACTERIA CULTURES RELEVANT TO AQUEOUS FILM FORMING FOAM (AFFF) SITES, Jessica LaFond, Texas Tech University
251	P49	ADSORPTION BEHAVIOR OF GLYPHOSATE TO SURFACE MODIFIED MONTMORILLONITE NANOCLOCKS, Mr Saifullah Omar Nasif, University of Newcastle
263	P50	SANDBAR CROPPING SYSTEMS: AN INNOVATIVE ORGANIC APPROACH TO SUPPORT LIVELIHOOD OF THE CLIMATE VULNERABLE PEOPLE IN BANGLADESH, Dr. Mohammed Sarker, Bangladesh Agricultural University
270	P51	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	P52	PERFORMANCE EVALUATION OF PILOT-SCALE TRIAL OF PFAS REMEDIATION USING A SUBSURFACE HORIZONTAL REACTOR WITH MATCARE™ TECHNOLOGY , Mr Danidu Kudagamage, University of Newcastle
272	P53	DAPHNIDS AS A SURROGATE FOR ASSESSING THE TOXICITY OF WEATHERED HYDROCARBONS. , Dr Anithadevi Kenday Sivaram (presented by Prof. Megharaj Mallavarapu), The University of Newcastle
274	P54	CHALLENGES OF GREEN REMEDIATION: AN AFRICAN PERSPECTIVE, Dr Beatrice Otunola, University of The Witwatersrand
278	P55	NOVEL ENHANCED DEFLUORINATION OF PFAS BY BIOCHAR-ASSISTED ULTRASOUND COUPLING FERRATE: PERFORMANCE AND MECHANISM, Dr Yongjia Lei, Sichuan Agricultural University
280	P56	FATE AND BEHAVIOUR OF JET FUEL ADDITIVES IN SOIL, Dr Chamila Samarasinghe (presented by Dr Yanju Liu), Global Centre for Environmental Remediation

282	P57	THERMAL DESORPTION OF PFAS-CONTAINING SOIL: IN SITU & EX SITU , Gorm Heron, TRS Group
285	P58	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
142	P59	UNVEILING THE PAST THROUGH HISTORICAL BUSINESS DIRECTORIES, Mr Howard Waldron, Lotsearch Pty Ltd
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186	P61	LOW COST MACHANO-CHEMICAL SYNTHESIS OF ORGANOCLAYS FOR REMEDIATING PFOS AND METAL CO-POLLUTANTS, Dr Bhabananda Biswas, University of Newcastle
303	P62	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	P63	MICROPLASTIC REMOVAL USING BIOCHAR DERIVED FROM LOW-COST AGRICULTURAL RESIDUES , Mr Aderemi Adeleye, University of Newcastle
305	P64	BIO-REACTIVE MATERIAL-SUPPORTED DELIVERY OF PHOSPHATE SOLUBILISING BACTERIA FOR SUSTAINABLE BIOFERTILIZERS, Rafique Uddin, Global Center for Environmental Remediation (GCER)
307	P65	EFFECTS OF MICROBUBBLE OZONATION PROCESS ON EFFLUENT FROM PAPER RECYCLING INDUSTRY WASTEWATER, Aaima Iftikhar, COMSATS University Islamabad