

**MONDAY, 14 SEPTEMBER 2015**

	CONFERENCE HALL 1 (CCH1)	CONFERENCE HALL 2 (CCH2)	CONFERENCE HALL 3 (CCH3)
8:30 – 10:10	<p><b>MA1 Advances in bioremediation</b> Chair: Ryan Wymore, Geosyntec Consultants</p>	<p><b>MB1 International Committee on Contaminated Land (ICCL): Introduction and update from ICCL meeting</b> Chair: Arminda Ryan, NSW EPA</p>	<p><b>MC1 Delineation and characterisation of NAPLs in the subsurface</b> Chair: David Major, Savron</p>
8:30			
8:50		<p>MB11 SUMMARY OF THE DISCUSSION AT THE ICCL MEETING Dominique Darmendrail, ICCL</p>	<p>MC11 VARIABILITY AND UNCERTAINTY ASSOCIATED WITH SAMPLING, ANALYSIS, AND RISK ASSESSMENT Naji Akladiss, Maine Department of Environmental Protection</p>
9:10	<p>MA12 MOLECULAR BIOLOGICAL TOOLS TO IDENTIFY AND OVERCOME OBSTACLES TO SOURCE ZONE BIOREMEDIATION AT COMPLEX SITES Andrew Wollen, Microbial Insights</p>	<p>MB12 INDUSTRY PERSPECTIVE AND COMMENTARY Peter Nadebaum, GHD Pty Ltd</p>	<p>MC12 CHARACTERIZATION OF CONTAMINANT DISTRIBUTION TO MEET SITE-SPECIFIC REMEDIAL OBJECTIVES AT SPATIAL RESOLUTIONS APPROPRIATE TO SUBSURFACE CONDITIONS Gary Wealthall, Geosyntec Consultants</p>
9:30	<p>MA13 UNRAVELLING MICROBIAL BIOREMEDIATION OF ORGANOPHOSPHATES: A METAGENOMIC SYSTEMS-BIOLOGY APPROACH Thomas C. Jeffries, University of Western Sydney</p>		<p>MC13 HIGH RESOLUTION SITE CHARACTERIZATION: THE PATH TO SUCCESSFUL REMEDIES AND REDUCED COST Seth Pitkin, Stone Environmental</p>
9:50	<p>MA14 BIOREMEDIATION OF WEATHERED HYDROCARBON CONTAMINATED CLAY SEDIMENTS Kavitha Ramadass, University of South Australia</p>	<p>Discussion and questions</p>	<p>MC14 LNAPL TRANSMISSIVITY – WHEN TO USE IT AND A NOVEL WAY TO REFINE VOLUME ESTIMATES Travis Teoh, URS</p>
10:10 – 10:40	MORNING TEA		

MEETING ROOM 11 (M11)	MEETING ROOM 12 (M12)	MEETING ROOM 13 (M13)
<p><b>MD1 Vapour intrusion</b> Chair: Jonathan Medd, Golder Associates Pty Ltd Sponsor: Golder Associates Pty Ltd</p>	<p><b>ME1 Metal(loid) assessment and remediation in soil and water</b> Chair: Mike Sieczkowski, JRW Bioremediation</p>	<p><b>MF1 Impact of contaminants on human health</b> Chair: Julian Cribb, Julian Cribb &amp; Associates</p>
<p>MD11 RECENT DEVELOPMENTS FOR ASSESSMENT AND MANAGEMENT OF SOIL VAPOUR INTRUSION Ian Hers, Golder Associates Ltd</p>	<p>ME11 BIOPHYSICAL APPROACHES TO REMEDIATION OF HEAVY METAL(LOID) CONTAMINATED SOILS Nanthi Bolan, University of Newcastle / CRC CARE</p>	<p>MF11 POTENTIAL HEALTH IMPACTS OF TOXIC CHEMICALS IN FISH: THE CASE OF PEARL RIVER DELTA, SOUTH CHINA Ming Wong, Hong Kong Institute of Education</p>
<p>MD12 DESIGN, VERIFICATION AND DEVELOPMENT OF ACTIVE SOIL VAPOUR SAMPLING PORTS IN FRACTURED BASALT Daniel Hodges, Golder Associates Pty Ltd</p>	<p>ME12 APPLICATION OF A TOXICITY APPROACH TO EVALUATE FREE CYANIDE AND METAL CYANIDE COMPLEXES IN WATERS OF GOLD AND OTHER MINING Barry N. Noller, The University of Queensland</p>	<p>MF12 USING A LIFETIME PHYSIOLOGICALLY BASED PHARMACOKINETIC MODEL TO ESTABLISH ARSENIC DRINKING WATER GUIDANCE Zhaomin Dong, University of Newcastle</p>
<p>MD13 VAPOUR (TCE) INTRUSION AND THE RELOCATION OF PEOPLE FROM THEIR HOMES – THE CAUSE, THE RELOCATION, THE SCIENCE, THE OUTRAGE Danielle Marie Torresan, SA EPA</p>	<p>ME13 LONG-TERM IMMOBILIZATION OF As AND Pb CONTAMINATED SOIL USING WASTE OYSTER SHELLS Deok Hyun Moon, Chosun University</p>	<p>MF13 SOURCES, SPECIATION AND BIOAVAILABILITY OF HEAVY METAL(LOID)S IN COMPLEMENTARY MEDICINES Shankar Bolan, University of Newcastle</p>
<p>MD14 VAPOUR INTRUSION MITIGATION USING A DRAINAGE LAYER BELOW A LARGE COMMERCIAL FLOOR SLAB Rory Lane, BlueSphere Environmental</p>	<p>ME14 A TOWNWIDE STUDY INTO THE PRESENCE AND REMEDIATION OF LEAD TAILINGS – NORTHAMPTON, WESTERN AUSTRALIA Brad Dermody, Aurora Environmental</p>	<p>MF14 CONCENTRATION OF ARSENIC IN HOME GROWN VEGETABLES: HEALTH IMPLICATIONS Mohammad M. Rahman, University of South Australia</p>
MORNING TEA		

MONDAY, 14 SEPTEMBER 2015

	CONFERENCE HALL 1 (CCH1)	CONFERENCE HALL 2 (CCH2)	CONFERENCE HALL 3 (CCH3)
10:40 – 12:20	<b>MA2 Advances in bioremediation</b> Chair: Megharaj Mallavarapu, University of Newcastle / CRC CARE	<b>MB2 ICCL: State of practice and policy – Brownfield regeneration</b> Chair: Mitzi Bolton, EPA Victoria	<b>MC2 Delineation and characterisation of NAPLs in the subsurface</b> Chair: Charles Newell, GSI Environmental Inc
10:40			
11:00	MA21 IN SITU BIOREMEDIATION OF CHLORINATED SOLVENT SOURCES Hans Stroo, Stroo Consulting	MB21 STATE OF THE PRACTICE Paul Nathanail, University of Nottingham	MC21 REVIEW OF CHARACTERIZATION METHODS FOR NAPL SOURCE ZONE DELINEATION AND MASS ESTIMATION Grant Carey, Porewater Solutions
11:20	MA22 FULL SCALE BIOREMEDIATION OF TRICHLOROETHENE Rachael Wall, Golder Associates Pty Ltd		MC22 INTEGRATED DNAPL SITE CHARACTERIZATION AND TOOLS SELECTION Ryan Wymore, Geosyntec Consultants
11:40	MA23 MODELLING NATURAL ATTENUATION: PLANNING RELIABILIY BY A LONG TERM PROGNOSIS? Martin Wegner, M&P GEONOVA GmbH	MB22 STATE OF THE POLICY Joerg Frauenstein, UBA	MC23 STATE OF THE ART IN DEVELOPING CONCEPTUAL SITE MODELS FOR DNAPL GROUNDWATER PLUMES Tamzen McBeth, CDM Smith
12:00	MA24 ENHANCEMENT OF BIODEGRADATION OF 1,1,1-TCA AND 1,1-DCA BY THE INJECTION OF EVO AND NUTRIENTS Gregory Carli, GHD	Discussion and questions	MC24 AQUIFER TESTING TO DETERMINE BEDROCK ANISOTROPY AND LNAPL FLOW PATHWAYS Rhonda Hastie, Kleinfelder
12:20 – 13:20	LUNCH		

MEETING ROOM 11 (M11)	MEETING ROOM 12 (M12)	MEETING ROOM 13 (M13)
<b>MD2 Vapour intrusion</b> Chair: Kristi Hanson, Senversa	<b>ME2 On-site remediation of contaminated land</b> Chair: Annette Nolan, Enviropacific Services Sponsor: Enviropacific Services / ISOTEC	<b>MF2 Impact of contaminants on human health</b> Chair: Ming Wong, Hong Kong Institute of Education
MD21 ATTENUATION FACTORS FOR CHLORINATED VOCS – LESSONS LEARNED THROUGH 15 YEARS OF VAPOR INTRUSION EVALUATION IN EXISTING BUILDINGS Helen Dawson, Geosyntec Consultants	ME21 RECENT ADVANCES IN IN-SITU REMEDIATION TECHNOLOGIES Will Caldicott, ISOTEC	MF21 CLEANSING A POISONED PLANET: CHEMICALS, SCIENCE COMMUNICATION AND GLOBAL PEOPLE POWER Julian Cribb, Julian Cribb & Associates
MD22 RESULTS FROM CONTINUOUS MONITORING OF CHLORINATED SOLVENT VAPORS: RAMIFICATIONS ON SOIL GAS, SUB-SLAB SOIL GAS AND INDOOR AIR SAMPLING Blayne Hartman, Hartman Environmental	ME22 IS THERE A FUTURE FOR ONSITE CONTAINMENT? Andrew Pruszinski, SA EPA	MF22 HUMAN GUT MICROBIOTA- ARE THESE KEY TO EFFECTIVE FUNCTIONING OF HUMAN METABOLISM Ravi Naidu, CRC CARE / University of Newcastle
MD23 PETROLEUM HYDROCARBONS – OXYGEN DEMAND MODEL AND DATABASE USED TO SUPPORT SCREENING DISTANCES Jackie Wright, EnRiskS	ME23 PERMEABLE REACTIVE BARRIER: AN EFFECTIVE IN-SITU REMEDIATION TECHNOLOGY Volker Birke, Ostfalia University of Applied Sciences	MF23 TOTAL ARSENIC LEVELS IN RICE FROM BANGLADESH AND HUMAN HEALTH IMPLICATIONS Shofiquil Islam, University of South Australia
MD24 VALIDATION OF TCE & PCE IN REMEDIAL EXCAVATIONS USING VAPOUR HEADSPACE IN VIAL SAMPLING Adrian Heggie, WSP   Parsons Brinckerhoff	ME24 COMBINING IN SITU CHEMICAL AND BIOLOGICAL OXIDATION FOR GROUNDWATER TREATMENT UNDER A PERFORMANCE BASED PROJECT DELIVERY PROGRAM Bruce Marvin, Geosyntec Consultants	MF24 HUMAN HEALTH IMPLICATIONS OF ARSENIC LEVELS IN A TROPICAL OPEN LAGOON Amii Usese, University of Lagos-Nigeria
LUNCH		

**MONDAY, 14 SEPTEMBER 2015**

	CONFERENCE HALL 1 (CCH1)	CONFERENCE HALL 2 (CCH2)	CONFERENCE HALL 3 (CCH3)
13:20 – 15:00	<p><b>MA3 Bioavailability / bioaccessibility of contaminants</b> Chair: Mark Cave, British Geological Survey</p>	<p><b>MB3 ICCL: State of practice and policy – Chlorinated solvent source zone remediation</b> Chair: Andrew Pruszinski, SA EPA</p>	<p><b>MC3 Remediation and management of LNAPL in unsaturated and saturated zones</b> Chair: Tamzen McBeth, CDM Smith</p>
13:20	<p>MA31 FROM BIOAVAILABILITY SCIENCE TO REGULATION OF ORGANIC CHEMICALS Kirk Semple, Lancaster University</p>	<p>MB31 STATE OF THE PRACTICE Hans Stroo, Stroo Consulting</p>	<p>MC31 CROSSING THE GAP: STAR TREATMENT OF HETEROGENOUS NAPL DISTRIBUTION David Major, Savron</p>
13:40			<p>MC32 MODELING LNAPL DEPLETION AT A FORMER XYLENE PROCESSING FACILITY (GERMANY) Grant Carey, Porewater Solutions</p>
14:00	<p>MA32 COMPARISON OF ORAL BIOAVAILABILITY OF BENZO[A]PYRENE IN SOILS USING RODENT AND SWINE MODEL Luchun Duan, University of Newcastle</p>	<p>MB32 STATE OF THE POLICY Jeff Heimerman, US Environmental Protection Agency</p>	<p>MC33 RECONSTRUCTING THE RELEASE AND LONGEVITY OF LNAPL PETROLEUM FUEL IN THE FACE OF LIMITED DATA USING A MULTI-COMPONENT, MULTI-PHASE MODELLING APPROACH Kaveh Sookhak Lari, University of South Australia, CSIRO</p>
14:20	<p>MA33 ENHANCING THE IMMOBILISATION OF LEAD BY PHOSPHATE USING A BIODEGRADABLE CHELATE Peter Sanderson, University of Newcastle</p>		<p>MC34 USE OF LNAPL TRANSMISSIVITY METRICS IN LNAPL REMEDIATION IN THE NEWER VOLCANICS FRACTURED BASALT – A CASE STUDY Keith Maxfield, AECOM Pty Ltd</p>
14:40	<p>MA34 INFLUENCE OF SOIL AGEING ON LEAD BIOAVAILABILITY MA Ayanka Wijayawardena, University of Newcastle</p>	<p>Discussion and questions</p>	<p>MC35 BIOSPARGE REMEDIATION OF LNAPL AND DISSOLVED PHASE PETROLEUM IMPACTS ADJACENT TO COMMERCIAL BUILDINGS Geof Ellis, Golder Associates Pty Ltd</p>
15:00 – 15:30	AFTERNOON TEA		

MEETING ROOM 11 (M11)	MEETING ROOM 12 (M12)	MEETING ROOM 13 (M13)
<p><b>MD3 Vapour intrusion</b> Chair: Jackie Wright, EnRisks</p>	<p><b>ME3 On-site remediation of contaminated land</b> Chair: Jean Meaklim, Greencap Sponsor: Enviropacific Services / ISOTEC</p>	<p><b>MF3 Advances in human health risk assessment</b> Chair: Brian Priestly, Monash University</p>
<p>MD31 CHLORINATED VAPOUR INTRUSION – COST-EFFECTIVE SCREENING &amp; MANAGEMENT USING INDOOR RADON Henry Schuver, US Environmental Protection Agency</p>	<p>ME31 IN SITU REMEDIATION OF PETROLEUM HYDROCARBONS Tom O'Callaghan, Enviropacific Services</p>	<p>MF31 A HISTORICAL DEVELOPMENT OF CHEMICAL MIXTURES HEALTH RISK ASSESSMENT METHODS AND APPLICATIONS Linda K. Teuschler, LK Teuschler &amp; Associates</p>
	<p>MD32 COMMUNITIES AND VAPOUR INTRUSION Lenny Siegel, Centre for Public Environmental Oversight (CPEO)</p>	
<p>MD33 COMPLICATIONS OF AMBIENT SOURCES IN ASSESSING VAPOUR INTRUSION RISKS Kathleen Prohasky, ERM Australia</p>	<p>ME33 ENHANCING ISCO – STRATEGIES AND TOOLS Charles Grimison, Thiess Services Pty Ltd</p>	<p>MF32 DECISION MAKING AT CONTAMINATED SITES: ISSUES AND OPTIONS IN HUMAN HEALTH RISK ASSESSMENT Barrie C. Selcoe, CH2MHill</p>
<p>MD34 VAPOUR INTRUSION – THE VALUE OF STRINGENT NOTIFICATION AND REPORTING REQUIREMENTS IN THE MANAGEMENT OF COMMUNITY RISKS Catherine Irwin, Golder Associates Pty Ltd</p>	<p>ME34 IN SITU CHEMICAL REDUCTION TREATMENT OF LEAD AND SILVER IN GROUNDWATER UPGRADIENT OF A DRINKING WATER SOURCE Gregory Carli, GHD</p>	<p>MF33 INNOVATIVE APPLICATIONS OF QUANTITATIVE HEALTH RISK ASSESSMENT Sophie Wood, ERM</p>
<p>MD35 VAPOUR INTRUSION – THE VALUE OF STRINGENT NOTIFICATION AND REPORTING REQUIREMENTS IN THE MANAGEMENT OF COMMUNITY RISKS Catherine Irwin, Golder Associates Pty Ltd</p>	<p>ME35 MANGANESE ACTIVATED PERSULFATE (MNAP) FOR THE TREATMENT OF A SOURCE ZONE: AN INNOVATIVE DUAL OXIDANT FORMULATION Bruce Marvin, Geosyntec Consultants</p>	<p>MF34 CADMIUM CHEMICAL FORM IN SOIL CONTAMINATION AND SIGNIFICANCE FOR HUMAN HEALTH RISK ASSESSMENT Barry N. Noller, The University of Queensland</p>
AFTERNOON TEA		

**MONDAY, 14 SEPTEMBER 2015**

	CONFERENCE HALL 1 (CCH1)	CONFERENCE HALL 2 (CCH2)	CONFERENCE HALL 3 (CCH3)
15:30 – 17:10	<b>MA4 Bioavailability / bioaccessibility of contaminants</b> Chair: Kirk Semple, Lancaster University	<b>MB4 ICCL: State of practice and policy – Emerging contaminants</b> Chair: Bruce Kennedy, CRC CARE	<b>MC4 Remediation and management of DNAPL in unsaturated and saturated zones</b> Chair: Najj Akladiss, Maine Department of Environmental Protection
15:30	MA41 REACHING A CONSENSUS ON BIOAVAILABILITY MEASUREMENTS; A CASE STUDY OF Pb in DUTCH TOWN SOILS Mark Cave, British Geological Survey	MB41 STATE OF THE PRACTICE Charles Schaefer, CDM Smith	MC41 REMEDIATION IN THE YEAR 2025: HOW CLEANUP AT DNAPL SITES MIGHT EVOLVE Charles Newell, GSI Environmental Inc
15:50			
16:10	MA42 QUANTIFYING STATISTICAL RELATIONS BETWEEN COMMONLY USED IN VITRO MODELS FOR ESTIMATING LEAD BIOACCESSIBILITY Kaihong Yan, University of Newcastle	MB42 STATE OF THE POLICY C. Molenaar / E. Van Dyck	MC42 COMBINING IN SITU THERMAL WITH BIOREMEDIATION FOR DNAPL TREATMENT: PEFORMANCE AND DESIGN CONSIDERATIONS Tamzen McBeth, CDM Smith
16:30	MA43 ASSESMENT OF ARSENIC SPECIATION AND BIOACCESSIBILITY IN MINE-IMPACTED MATERIALS Cameron Ollson, University of South Australia		MC43 IN SITU SMOLDERING COMBUSTION (STAR) PRE-DESIGN EVALUATION (PDE) FOR L&DNAPL COAL TAR IN AN AQUIFER David Major, Savron
16:50	MA44 COPPER DECREASES ARSENIC SOLUBILITY, GROWTH AND UPTAKE AT TOXIC DOSE LEVELS (EC10 AND EC50) Mohammed Kader, University of Newcastle	Discussion and questions	MC44 A WEIGHT OF EVIDENCE APPROACH TO IN-SITU BIOREMEDIATION OF GROUNDWATER IN DNAPL SOURCE ZONES Jonathan Ho, AECOM
17:10 – 18:10	DRINKS AND POSTER SESSION		

MEETING ROOM 11 (M11)	MEETING ROOM 12 (M12)	MEETING ROOM 13 (M13)
<b>MD4 Contaminated land regulation and site audit process – clearing up the misunderstandings</b> Chair: Ross McFarland, AECOM	<b>ME4 Urban renewal</b> Chair: Paul Vogel, WA EPA	<b>MF4 Advances in ecological risk assessment</b> Chair: Kenneth Kiefer, ERM
MD41 CONTAMINATED LAND REMEDIATION – DETERMINING ENDPOINTS Erwin Benker, NSW EPA	ME41 URBAN RENEWAL: PREPARING FOR A JOURNEY NOT PACKING FOR A DESTINATION Paul Nathanail, University of Nottingham	MF41 CHALLENGES WITH SOILS CONTAMINATED BY MIXED CONTAMINANTS: BIOAVAILABILITY, BIOREMEDIATION AND ECOTOXICITY CONSIDERATIONS Megharaj Mallavarapu, University of Newcastle / CRC CARE
MD42 A REGULATOR’S PERSPECTIVE ON THE CLEAN UP OF GROUNDWATER AND EPA VICTORIA’S REFORM PROCESS Anne Northway, EPA Victoria		
MD43 PRACTICAL IMPLICATIONS FOR REMEDIATION WASTE MANAGEMENT RESULTING FROM NEW NSW REGULATIONS AND DRAFT SITE AUDITOR GUIDELINES Sophie Wood, ERM	ME42 MODELS AND LESSONS FOR DEVELOPING A CONTAMINATED SITE PROGRAM: AN INTERNATIONAL REVIEW Walter W. Kovalick, 8th Avenue Consulting	MF42 ASSESSMENT OF GROUNDWATER – SURFACE WATER INTERACTION IN A FRACTURED BASALT AQUIFER SYSTEM TO SUPPORT ECOLOGICAL RISK ASSESSMENT Frederic Cosme, Golder Associates Pty Ltd
MD44 ENVIRONMENTAL AUDIT REFORM: IS IT JUST ABOUT THE RED TAPE? Joanna Missen, EPA Victoria	ME43 FISHERMANS BEND URBAN RENEWAL AREA: PROACTIVE GROUNDWATER BACKGROUND STUDIES German Ferrando-Miguel, EPA Victoria	MF43 LINES OF EVIDENCE USED IN ECOLOGICAL RISK ASSESSMENT OF CONTAMINATED GROUNDWATER Kirsten Broadgate, Golder Associates Pty Ltd
MD45 NSW vs WA: WHO IS BETTER AT REGULATING CONTAMINATED LAND? Sarah Mansfield, Henry Davis York	ME44 COMMUNITY CONSULTATION IN AN URBAN RENEWAL PROJECT AND COMPETING OBJECTIVES Vanessa Bryant, Ramboll Environ Australia Pty Ltd	MF44 ASSESSMENT OF WEATHERED HYDROCARBON RESIDUAL TOXICITY USING ENDEMIC AUSTRALIAN FLORA AND FAUNA Muhammad Atikul Islam Khan, University of South Australia
DRINKS AND POSTER SESSION		

TUESDAY, 15 SEPTEMBER 2015

	CONFERENCE HALL 1 (CCH1)	CONFERENCE HALL 2 (CCH2)	CONFERENCE HALL 3 (CCH3)
8:30 – 10:10	TA1 Advances in site characterisation Chair: Gary Wealthall, Geosyntec Consultants	TB1 Defence Symposium	TC1 Risk based land management Chair: Prashant Srivastava, CRC CARE
8:30	TA11 USING IN SITU REMEDIATION (ISR-MT3DMS) MODEL TO ESTIMATE BACK-DIFFUSION TIMEFRAME FOR THIN SILTS AND CLAYS Grant R. Carey, Porewater Solutions		TC11 RISK BASED LAND MANAGEMENT: WHAT IT IS; WHAT IT IS NOT Paul Nathanail, University of Nottingham
8:50	TA12 FORMER CLANDESTINE DRUG LABORATORIES – HOW CONTAMINATED ARE THEY? Jackie Wright, EnRiskS		
9:10	TA13 WHEN CONCEPTUAL SITE MODELS ARE WRONG – A CASE STUDY Penelope R. Woodberry, Golder Associates Pty Ltd	DEFENCE SYMPOSIUM - INVITATION ONLY	TC12 SUSTAINABLE DEVELOPMENT OF BROWNFIELDS Surampalli Rao, Global Institute for Energy, Environment and Sustainability
9:30	TA14 ASSESSING BACKGROUND CONCENTRATIONS OF INORGANIC CONTAMINANTS IN THE BRIGHTON GROUP AQUIFER, SOUTHEAST MELBOURNE Megan Gaffney, ACLCA Victoria		TC13 INNOVATIVE LNAPL CONCEPTUAL SITE MODEL DEVELOPMENT TOOLS IN SUPPORT OF MORE SUSTAINABLE RISK-BASED LNAPL SITE MANAGEMENT Matthew Rousseau, GHD Pty Ltd
9:50	TA15 PERFORMANCE TESTING OF SUPER OXYGENATED WATER GENERATION AND DELIVERY METHODS Jessica K. Ewers, Golder Associates Pty Ltd		TC14 REMEDIATION END POINT: RISK BASED OR PUBLIC PERCEPTION? CASE STUDY OF THE REMEDIATION OF A PETROLEUM HYDROCARBON PLUME IN PERTH, WESTERN AUSTRALIA Penelope L. King, Environmental Strategies
10:10 – 10:40			

MEETING ROOM 11 (M11)	MEETING ROOM 12 (M12)	MEETING ROOM 13 (M13)
TD1 Data quality issues – different perspectives Chair: Cheryl Lim, National Measurement Institute / CRC CARE	TE1 Contaminants of emerging concern Chair: Daniel Slee, National Measurement Institute Sponsor: CH2M	TF1 Reducing uncertainty and risks in environmental investigations Chair: Therese Manning, EnRiskS
		TF11 REDUCING UNCERTAINTY DURING REMEDIAL DESIGN – A CASE STUDY Charles Grimison, Thiess Services Pty Ltd
	TE31 EMERGING ENVIRONMENTAL CONTAMINANTS AND CURRENT ISSUES Susan Richardson, University of South Carolina	TF12 USING MASS BALANCE IN RISK ASSESSMENT Kenneth Kiefer, ERM
INTRODUCTION  REGULATOR'S PERSPECTIVE Erwin Benker, NSW EPA  LABORATORY'S PERSPECTIVE David Springer, Envirolab  CONSULTANT'S / AUDITOR'S PERSPECTIVE Phil Sinclair, Coffey  LANDOWNER'S PERSPECTIVE Craig Barnes, Airservices  CLOSING REMARKS	TE32 NATURE, ENVIRONMENTAL FATE, AND POTENTIAL HUMAN AND AQUATIC TOXICITY OF POLAR METABOLITE MIXTURES IN GROUNDWATER AT BIODEGRADING FUEL RELEASE SITES <b>PRE-RECORDED VIDEO</b> Dawn Zemo, Zemo & Associates Inc	TF13 FAST TRACKED: THE ENVIRONMENTAL RISKS AND CHALLENGES OF GRADE SEPARATION PROJECTS Alessandro Sica, Golder Associates Pty Ltd
	TE33 PROVIDING THE INFRASTRUCTURE NEEDED TO IMPROVE THE QUALITY OF PBDE MEASUREMENTS IN AUSTRALIA Gavin Stevenson, National Measurement Institute	TF14 OCCUPATIONAL HYGIENE IN THE REMEDIATION INDUSTRY: A REVIEW OF RISK IN RECENT CASE STUDIES DURING GASWORKS REMEDIATION Kate Cole, Thiess Services
	TE34 DETERMINING LEVELS OF PBDES ON CONTAMINATED SITES AND ASSESSING THE IMPLICATIONS FOR SITE REMEDIATION IN AUSTRALIA Thomas McGrath, RMIT University	TF15 ASSESSING CONTAMINATED SITES DATA – TRADING ACCURACY FOR KNOWLEDGE Peter Beck, GHD Pty Ltd
10:10 – 10:40		

**TUESDAY, 15 SEPTEMBER 2015**

	CONFERENCE HALL 1 (CCH1)	CONFERENCE HALL 2 (CCH2)	CONFERENCE HALL 3 (CCH3)
10:40 – 12:20	TA2 Advances in site characterisation Chair: Tamie Weaver, ERM	TB2 Defence Symposium	TC2 Case studies – contaminated site assessment, remediation and management Chair: Raghava Dasika, URS
10:40	TA21 RECENT DEVELOPMENTS IN IDENTIFICATION OF UNKNOWN CONTAMINATION SOURCES AND MONITORING NETWORK DESIGN FOR CONTAMINATED GROUNDWATER SYSTEMS Bithin Datta, James Cook University		TC21 FIRST APPLICATION OF THE SUPER OXYGENATED WATER (SOW) TECHNOLOGY IN AUSTRALIA: CASE STUDY FOR SANDY SOILS Paolo Arcidiacono, Golder Associates Pty Ltd
11:00	TA22 ANALYTE ION DETECTION METHOD AND DEVICE (probeCARE) Liang Wang, University of Newcastle	DEFENCE SYMPOSIUM – INVITATION ONLY	TC22 POINT COOK THERMAL DESORPTION REMEDIATION PROJECT Will Magnus, Enviropacific Services
11:20	TA23 EVALUATION OF STATISTICAL AND GEOCHEMICAL METHODS FOR DISTINGUISHING SOIL CONTAMINATION FROM BACKGROUND CONCENTRATIONS Hannah Mikkonen, RMIT University		TC23 MACDONALDTOWN GASWORKS – AN MGP CASE STUDY Adam Fletcher, Thiess Services Daniel Wedgwood, Sydney Trains
11:40	TA24 THE USE OF CONTAMINANT MASS FLUX AND MASS DISCHARGE TO SUPPORT GROUNDWATER REMEDIATION AT A HISTORICAL GASWORKS, BARANGAROO, SYDNEY AUSTRALIA Graham Hawkes, AECOM		TC24 COST EFFECTIVE CUTEP REMEDIATION AND METRICS UTILISING LNAPL TRANSMISSIVITY David Jackson, Environmental Strategies
12:00			TC25 DEVELOPMENT OF TECHNOLOGY FOR REMOVAL OF URANIUM FROM CONTAMINATED SOIL USING INDOOR ELECTROKINETIC DECONTAMINATION EQUIPMENT Gye-Nam Kim, Korea Atomic Energy Research Institute
12:20 – 13:20	LUNCH		

MEETING ROOM 11 (M11)	MEETING ROOM 12 (M12)	MEETING ROOM 13 (M13)
TD2 Data quality issues – panel discussion Chair: Neil Shepherd, NATA	TE2 Contaminants of emerging concern Chair: Joytishna Jit, University of South Australia / CRC CARE Sponsor: CH2M	TF2 Ground gas Chair: David Adams, Environmental Strategies Sponsor: Environmental Strategies
	TE21 EMERGING CONTAMINANTS UPDATE, WITH A FOCUS ON PER- AND POLYFLUOROALKYL SUBSTANCES AND 1,4-DIOXANE William H. Diguseppi, CH2M	TF21 GROUND GAS RISK MANAGEMENT – LESSONS LEARNT FROM AN AUDITOR'S PERSPECTIVE Tim Chambers, Environmental Strategies
Panel discussion	TE22 KEY ISSUES REGARDING THE FATE AND TRANSPORT OF EMERGING CONTAMINANTS Charles Schaefer, CDM Smith	TF22 INSTALLATION AND PILOT TRIAL OF SOIL VAPOUR EXTRACTION (SVE) FROM A HORIZONTAL WELL IN THE NEWER VOLCANICS BASALT BENEATH AND OPERATING PLANT BUILDING Patrick Clarke, Senversa Pty Ltd
	TE23 RISK-BASED MANAGEMENT AND REMEDIATION FOR BENZO(A)PYRENE Peter Nadebaum, GHD Pty Ltd	TF23 ASSESSING THE HYDROCARBON NATURAL SOURCE ZONE DEPLETION RATE OF NON-AQUEOUS PHASE HYDROCARBONS BY MEASURING SOIL GAS FLUX Danny McDonald, Cardno
	TE24 INVESTIGATION OF EMERGING CONTAMINANTS IN ENVIRONMENTAL WATERS Yvonne Yin, National Measurement Institute	TF24 THE USE OF PASSIVE SOIL GAS (PSG) SURVEYS TO IMPROVE THE USABILITY OF INFORMATION GATHERED DURING PRELIMINARY SITE INVESTIGATIONS AT PETROLEUM CONTAMINATED SITES Paul R.D. Wright, WrightKunsult Environmental Solutions
LUNCH		

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	CONFERENCE HALL 1 (CCH1)	CONFERENCE HALL 2 (CCH2)	CONFERENCE HALL 3 (CCH3)
13:20 – 15:00	<p><b>TA3 Remediation panel</b>                      Chair: David Reynolds, Geosyntec Consultants / David Thomas, Chevron                      Sponsor: Geosyntec Consultants</p>	<p><b>TB3 Defence Symposium</b></p>	<p><b>TC3 Case studies – contaminated site assessment, remediation and management</b>                      Chair: Louise Cartwright, Enviropacific Services</p>
13:20			<p>TC31 LONG-TERM BIOREMEDIATION AND MANAGEMENT FOR A CO-MINGLED CHLORINATED SOLVENT AND 1,4-DIOXANE SOURCE AREA AND PLUME                      Ryan Wymore, Geosyntec Consultants</p>
13:40			<p>TC32 TOWARDS SUSTAINABLE REMEDIATION IN THE 21ST CENTURY: DEFINED MECHANOCHEMICAL REDUCTIVE DEHALOGENATION AT ROOM TEMPERATURE IN A BALL MILL                      Volker Birke, Ostfalia University of Applied Sciences</p>
14:00	<p>The panel will consist of representatives from industry, consulting, research, and regulatory bodies. This is an interactive session discussing various environmental topics of interest. The session will include brief presentations by panel members followed by a moderated discussion and debate. Audience participation technology (keypad clickers) will be available for attendees.</p>	<p>DEFENCE SYMPOSIUM – INVITATION ONLY</p>	<p>TC33 QUANTIFYING THE MASS OF PETROLEUM HYDROCARBON CONTAMINANTS DEGRADED BY MICROBIAL PROCESSES AT AN ACTIVE REMEDIATION SITE                      Stephen Cambridge, Coffey</p>
14:20			<p>TC34 BETTER MANAGEMENT OF REMEDIATION PROCESS UNCERTAINTY                      Christian M Borovac, Golder Associates Pty Ltd</p>
14:40			<p>TC35 ADVANCES IN FIELD SAMPLING: NO-FLOW VERSUS LOW-FLOW                      Claire Howell, WSP Parsons Brinckerhoff</p>
15:00 – 15:30	AFTERNOON TEA		

	MEETING ROOM 11 (M11)	MEETING ROOM 12 (M12)	MEETING ROOM 13 (M13)
13:20 – 15:00	<p><b>TD3 Advances in analytical measurement and methods</b>                      Chair: Scott Fraser, PerkinElmer                      Sponsor: PerkinElmer</p>	<p><b>TE3 Development of assessment criteria</b>                      Chair: Jack Dempsey, EnRisks</p>	<p><b>TF3 Reuse and rehabilitation of landfills</b>                      Chair: Tim Marshall, Coffey</p>
13:20	<p>TD31 SINGLE PARTICLE ICP-MS (SP-ICP-MS) FOR THE DETECTION OF METAL-BASED NANOPARTICLES IN ENVIRONMENTAL MATRICES                      Chady Stephan, PerkinElmer</p>	<p>TE31 APPLICATION OF SITE SPECIFIC ADSORPTION ISOTHERMS FOR DERIVING SOIL REMEDIATION GOALS PROTECTIVE OF GROUNDWATER – TOOWOOMBA GASWORKS CASE STUDY                      Barry Mann, GHD Pty Ltd</p>	<p>TF31 AN INTEGRATED INVESTIGATION APPROACH FOR CHARACTERISATION OF A LANDFILL LEACHATE PLUME                      Lange B. Jorstad, Geosyntec Consultants</p>
13:40		<p>TE32 REVIEW OF ECOLOGICAL INVESTIGATION LEVELS FOR TOTAL PETROLEUM HYDROCARBONS                      Therese Manning, EnRisks</p>	<p>TF32 STRATEGIES IN MANAGING RISK OF LANDFILL GAS MIGRATION                      Aidan Marsh, Pacific Environment</p>
14:00	<p>TD32 DETERMINATION OF TOTAL RECOVERABLE HYDROCARBONS (TRH) IN SOIL USING SOXHLET EXTRACTION AND GC-FID                      Gabriela Saveluc, National Measurement Institute</p>	<p>TE33 RISK-BASED SCREENING CRITERIA FOR PCR USE OF WATER: IS 10 TIMES THE DRINKING WATER GUIDELINE PROTECTIVE?                      Kristi L. Hanson, Senversa Pty Ltd</p>	<p>TF33 AN AUSTRALIA-WIDE ASSESSMENT OF PERSISTENT, BIOACCUMULATIVE AND TOXIC CHEMICALS (PBTS) IN LANDFILL LEACHATES                      Christie Gallen, University of Queensland</p>
14:20	<p>TD33 TOTAL RECOVERABLE HYDROCARBONS IN WATERS: A CHEMIST'S PERSPECTIVE ON THE ANALYSIS OF SEMIVOLATILE PETROLEUM HYDROCARBONS                      Marc Centner, ALS Environmental</p>	<p>TE34 A CASE FOR HIL E – HEALTH INVESTIGATION LEVELS FOR INDIGENOUS AUSTRALIAN COMMUNITIES LIVING A TRADITIONAL LIFESTYLE                      Emmylou F. Cooke, Thiess Services</p>	<p>TF34 EFFECTIVE RESIDENTIAL REDEVELOPMENT OF A METHANEPRODUCING FORMER LANDFILL SITE, MELBOURNE, VICTORIA                      Warren Pump, ERM</p>
14:40	<p>TD34 DETERMINATION OF POLYCYCLIC AROMATIC HYDROCARBONS IN SPIKED AND AGED SOIL USING MODIFIED QuEChERS AND GAS CHROMATOGRAPHY WITH MASS SPECTROMETRY                      Vincent Lal, University of Queensland</p>	<p>TE35 DEVELOPING GROUNDWATER TIER 1 SCREENING CRITERIA FOR CHRONIC AND ACUTE VAPOUR RISKS FOR CHLORINATED HYDROCARBONS                      Kathleen Prohasky, ERM Australia</p>	<p>TF35 LNAPL EXTRACTION PRACTICABILITY ASSESSMENT – FORMER HAZARDOUS WASTE LANDFILL, TULLAMARINE, VIC, AUSTRALIA                      Alex Schiavoni, EHS Support</p>
15:00 – 15:30	AFTERNOON TEA		

**TUESDAY, 15 SEPTEMBER 2015**

	CONFERENCE HALL 1 (CCH1)	CONFERENCE HALL 2 (CCH2)	CONFERENCE HALL 3 (CCH3)
15:30 – 17:10	TA4 globalCARE Chair: Ravi Naidu, CRC CARE Sponsor: CRC CARE	TB4 Defence Symposium	TC4 Case studies – contaminated site assessment, remediation and management Chair: Neil Proposch, Aurecon
15:30			TC41 RISK ASSESSMENT FOR LARGE FACILITIES OR PROGRAMS Barrie Selcoe, CH2MHill
15:50			TC42 DREDGING SYDNEY HARBOUR, ENVIRONMENTAL CONSIDERATIONS Ryan Well, Environmental Strategies
16:10	Launch of the Global Contamination and Remediation Enterprise (globalCARE). An overview will be presented by Ravi Naidu and Walter Kovalick.	DEFENCE SYMPOSIUM – INVITATION ONLY	TC43 COMPARISON OF IN-SITU SELF-SUSTAINING SMOULDERING COMBUSTION AND SEPR/S-ISCO METHODS FOR THE REMEDIATION OF COAL TAR DNAPL, BACCHUS MARSH, VICTORIA Matt Edwards, BlueSphere Environmental
16:30			TC44 DIRECT INJECTION OF EMULSIFIED VEGETABLE OIL FOR CHLORINATED SOLVENTS REMEDIATION Jessica Byrne, AECOM
16:50			TC45 MULWALA EXPLOSIVES AND CHEMICAL MANUFACTURING FACILITY – AN INTEGRATED APPROACH TO GROUNDWATER MANAGEMENT Melissa Saunders, AECOM Pty Ltd
17:10 – 18:10	DRINKS AND POSTER SESSION		
19:00 – 00:00	GALA DINNER		

MEETING ROOM 11 (M11)	MEETING ROOM 12 (M12)	MEETING ROOM 13 (M13)
TD4 Role of measurement in supporting policy Chair: Paul Vogel, WA EPA	TE4 Development of assessment criteria Chair: Bruce Kennedy, CRC CARE	TF4 Sustainable remediation Chair: John Hunt, EIC Activities Sponsor: SuRF ANZ
TD41 THE ROLE OF MEASUREMENT AND QUALITY ASSURANCE IN SUPPORTING ENVIRONMENTAL POLICY AND REGULATION FOR CONTAMINATION MANAGEMENT Cheryl Lim, National Measurement Institute / CRC CARE	TE41 NATIONAL GUIDANCE FOR EMERGING CONTAMINANTS AT CRC CARE Joytishna Jit, CRC CARE	TF41 THREE REASONS TO CONSIDER SUSTAINABLE REMEDIATION (SR) A GLOBAL PERSPECTIVE AND A MUTUAL INTEREST Hans Slenders, Arcadis
TD42 PRODUCING TELEPHONE NUMBERS RATHER THAN REAL DATA FOR OUR MULTI-MILLION DOLLAR DECISION MAKING. A REVIEW OF DECISION CERTAINTY IN CONTAMINATED LAND ASSESSMENT AND REMEDIATION Ross McFarland, AECOM Australia Pty Ltd	TE42 RISK BASED ASSESSMENT, MANAGEMENT AND REMEDIATION OF PFOS AND PFOA Peter Nadebaum, GHD Pty Ltd	TF42 SUSTAINABLE PRACTICE APPLICATION TO AUSTRALIAN AND REGIONAL REMEDIATION PROJECTS Garry J Smith, Geosyntec Consultants
TD43 CHALLENGES IN THE MEASUREMENT OF PFOS IN ENVIRONMENTAL SAMPLES: ARE THE NUMBERS MEANINGFUL TO ENVIRONMENTAL TOXICOLOGISTS AND REGULATORS Marc Centner, ALS	TE43 RISK-BASED METHODS TO DERIVE AQUATIC ECOSYSTEM GUIDELINES Kirsten Broadgate, Golder Associates Pty Ltd	TF43 REDUCING CONTAMINATED MATERIAL DISPOSAL VOLUMES – A SUSTAINABLE AND COST EFFECTIVE REMEDIATION APPROACH Yvonne Binai, GHD Pty Ltd
TD44 THE VALUE OF THE RIGHT RATHER THAN ACCURATE MEASUREMENT IN CHARACTERISING CONTAMINATED SITES Peter Beck, GHD	TE44 ADVANCES IN THE DETERMINATION OF A HUMAN HEALTH SCREENING CRITERIA FOR 6:2 FLUOROTELOMER SULFONATE Ruth Jarman, EnRiskS	TF44 REMEDIATION IN THE CONTEXT OF GLOBAL SUSTAINABILITY Kevin Simpson, EHS Support
TD45 ENVIRONMENTAL MEASUREMENTS AS THE BASIS OF POLICY CHANGE – A CASE OF THE TAIL WAGGING THE DOG? Dave Reynolds, Geosyntec	TE45 DERIVING CRITERIA FOR DIOXINS AND FURANS Olivia Henderson, WSP   Parsons Brinckerhoff	
DRINKS AND POSTER SESSION		
GALA DINNER		



**WEDNESDAY, 16 SEPTEMBER 2015**

	CONFERENCE HALL 1 (CCH1)	CONFERENCE HALL 2 (CCH2)	CONFERENCE HALL 3 (CCH3)
9:00 – 10:40	<b>WA1 National remediation framework</b> Chair: Kerry Scott, CRC CARE Sponsor: CRC CARE	<b>WB1 Fractured rock sites</b> Chair: Raghava Dasika, URS Sponsor: Geosyntec	<b>WC1 Field measurement and sampling</b> Chair: Bill Stavropoulos, SGS Leeder Consulting Sponsor: SGS Leeder Consulting
9:00	WA11 THE NATIONAL REMEDIATION FRAMEWORK – TOWARDS HARMONISATION Bruce Kennedy, CRC CARE	WB11 SUBSURFACE CHARACTERISATION, MODELLING, MONITORING, AND REMEDIATION OF FRACTURED ROCKS Dave Reynolds, Geosyntec	WC11 PERMEATION PASSIVE SAMPLING IN ENVIRONMENTAL ANALYSIS Tadeusz Gorecki, University of Waterloo
9:20			
9:40	WA12 OVERVIEW OF THE GUIDELINES FOR PERFORMING COST BENEFIT AND SUSTAINABILITY ANALYSIS OF REMEDIAL ALTERNATIVES Susan Barnes, CH2M	WB12 GEOLOGICAL INVESTIGATION USING MULTIPLE LINES OF EVIDENCE TO DETERMINE LNAPL PRESENCE IN BEDROCK Rhonda Hastie, Kleinfelder	WC12 A NEW METHOD FOR PERIMETER SAMPLING OF VOCs – “U.S. EPA METHOD 325: VOLATILE ORGANIC COMPOUNDS FROM FUGITIVE AND AREA SOURCES” Kristian Hansen, SGS
10:00	WA13 SUMMARY OF FOUR NATIONAL REMEDIATION FRAMEWORK GUIDELINES Luke Clements, CH2M	WB13 DEVELOPING CONCEPTUAL SITE MODELS FOR THE INVESTIGATION AND REMEDIATION OF FRACTURED ROCKS Gary Wealthall, Geosyntec Consultants Inc	WC13 RAPID ASSESSMENT OF A LARGE INDUSTRIAL MANUFACTURING SITE USING WMS-LU PASSIVE SOIL VAPOUR SAMPLERS Matthew B. Collyer, Edge Group Pty Ltd
10:20	WA14 IDENTIFYING AND ASSESSING CONTAMINATED SITE REMEDIATION OPTIONS Peter Nadebaum, GHD Pty Ltd	WB14 FRACTURED NEWER VOLCANIC BASALT – UNDERSTANDING KEY PROPERTIES THAT INFLUENCE REMEDIATION EFFICACY Jonathan Medd, Golder Associates Pty Ltd	WC14 A COMPARISON OF PASSIVE SAMPLING AND LOW-FLOW OR BAILED SAMPLING RESULTS ACROSS A RANGE OF AUSTRALIAN HYDROGEOLOGICAL SETTINGS Kenneth Kiefer, ERM
10:40 – 11:10	<b>MORNING TEA</b>		

MEETING ROOM 11 (M11)	MEETING ROOM 12 (M12)	MEETING ROOM 13 (M13)
<b>WD1 Risk assessment of contaminants</b> Chair: Sophie Wood, ERM	<b>WE1 Mine site remediation, revegetation and rehabilitation</b> Chair: Nanthi Bolan, University of Newcastle / CRC CARE	<b>WF1 Community consultation and contaminated site remediation</b> Chair: Rebecca Hughes, SA EPA
WD11 COMBINED GENOTOXIC EFFECT OF ARSENIC, CADMIUM, CHROMIUM AND FOUR POLYAROMATIC HYDROCARBONS Jack C. Ng, University of Queensland	WE11 CHALLENGES FOR NATIVE FOREST ESTABLISHMENT ON SURFACE MINES IN A TIME OF CLIMATE CHANGE Chris Barton, University of Kentucky	WF11 SOCIETAL PERCEPTIONS AND ACCEPTABILITY OF REMEDIATION TECHNOLOGIES Jason Prior, University of Technology Sydney
WD12 EVALUATING CHROMIUM SPECIATION IN GROUNDWATER TO GUIDE RISK ASSESSMENT AND REMEDIATION DECISIONS Tamie Weaver, ERM	WE12 WEB BASED GUIDANCE FOR MINE WASTE REMEDIATION Michael R. Sieczkowski, JRW Bioremediation	WF12 REAL RISK VERSUS PERCEIVED RISK IN THE REMEDIATION INDUSTRY Kristy Thornton, Thiess Services
WD13 RAPID RISK ASSESSMENT TO ADDRESS PUBLIC HEALTH CONCERNS REGARDING POTENTIAL EXPOSURE TO ANTIMONY Madeleine Thomas, Golder Associates Pty Ltd	WE13 MINE SITES – MANAGING THE NEXUS BETWEEN ACTIVE MINE SITES AND CONTAMINATED LAND PHILOSOPHY Tim Chambers, Environmental Strategies	WF13 ENHANCING RISK COMMUNICATION: IDENTIFYING INTEGRATION MECHANISMS BETWEEN EMPIRICAL SCIENCE, SOCIAL SCIENCE AND THE HUMANITIES Kathryne T. Hughes, University of Technology Sydney
WD14 SOIL CONTAMINATION AMD RISK ASSESSMENT AT HOUNSLOW HEATH EX-LANDFILL SITE IN LONDON, UK John L Zhou, University of Technology Sydney	WE14 UTILIZATION OF BIOWASTES FOR MINE SPOILS REHABILITATION Hasintha Wijesekara, University of South Australia	WF14 ENVIRONMENTAL AND SOCIETAL MANAGEMENT OF CONTAMINATED LAND IN NIGERIA: THE NEED FOR POLICY AND GUIDANCE CHANGES Kabari Sam, Cranfield University
<b>MORNING TEA</b>		

**WEDNESDAY, 16 SEPTEMBER 2015**

	CONFERENCE HALL 1 (CCH1)	CONFERENCE HALL 2 (CCH2)	CONFERENCE HALL 3 (CCH3)
11:10 – 12:50	<p><b>WA2 Climate change and remediation – Presentations</b>                      Chair: Vanessa Bryant, Ramboll Environ                      Sponsor: Ramboll Environ</p>	<p><b>WB2 Fractured rock sites</b>                      Chair: Grant Carey, Porewater Solutions                      Sponsor: Geosyntec</p>	<p><b>WC2 Per-fluorinated compounds</b>                      Chair: Peter Storch, EHS-Support Pty Ltd</p>
11:10			<p>WC21 PERFLUOROOCTANE SULFONATE (PFOS) AND PERFLUOROOCTANOIC ACID (PFOA): ECOTOXICITY AND ENVIRONMENTAL CONCERNS                      Megharaj Mallavarapu, University of Newcastle</p>
11:30	<p>WA21 THE INFLUENCE OF CLIMATIC UNCERTAINTY ON GROUNDWATER RESTORATION METHODS                      Scott Warner, Ramboll Environ</p>	<p>WB21 NATURALLY OCCURRING ABIOTIC DECHLORINATION OF TCE IN ROCK MATRICES                      Charles Schaefer, CDM Smith</p>	<p>WC22 INNOVATIVE TECHNOLOGIES ON TREATING PERFLUOROALKYL SUBSTANCES                      Dora Chiang, AECOM</p>
11:50	<p>WA22 SEA LEVEL RISE AND CONTAMINATED SITES – MORE CHALLENGES AND HARD DECISIONS LIE AHEAD                      Paul van der Beeke, Golder Associates Pty Ltd</p>	<p>WB22 DISTRIBUTION OF VEGETABLE OIL-BASED SUBSTRATE TO REMEDIATE SHALLOW FRACTURED BEDROCK UNDER SAPROLITIC CONDITIONS                      Mike Sieczkowski, JRW Bioremediation</p>	<p>WC23 C6 SHORT-CHAIN FLUOROTELOMERS PROVIDE A BETTER ENVIRONMENTAL SOLUTION AND SUPERIOR PERFORMANCE FOR CLASS B FIREFIGHTING FOAM APPLICATIONS                      Mike Willson, Willson Consulting</p>
12:10	<p>WA23 GROUNDWATER MONITORING &amp; REMEDIATION UNDER CHANGING CLIMATE CONDITIONS                      Tamie Weaver, ERM</p>	<p>WB23 HIGH RESOLUTION SITE CHARACTERIZATION: CHLORINATED SOLVENT CONTAMINATION IN POROUS SEDIMENTARY ROCK                      Seth Pitkin, Stone Environmental</p>	<p>WC24 PFOS AND PFOA: SCREENING CRITERIA AND WHAT HEALTH INVESTIGATION LEVELS MIGHT LOOK LIKE                      Giorgio De Nola, Cardno</p>
12:30	<p>WA24 THE IMPLICATIONS OF CLIMATE CHANGE FOR SITE ASSESSMENT, MANAGEMENT AND REMEDIATION                      Stella Whittaker, Ramboll Environ</p>	<p>WB24 FRACTURED ROCK BIOREMEDIATION CROSS ROADS: NEW MILLENNIUM MICROBIOLOGY VS LAST CENTURY HYDROGEOLOGY                      David Major, Savron</p>	<p>WC25 ENVIRONMENTAL FACTORS AFFECTING THE SELECTION AND USE OF FIRE-FIGHTING FOAMS – A FIRE SAFETY PERSPECTIVE                      Brett Staines, UTC Building and Industrial Systems</p>

12:50 – 13:40

LUNCH

MEETING ROOM 11 (M11)	MEETING ROOM 12 (M12)	MEETING ROOM 13 (M13)
<p><b>WD2 Nanotechnology for groundwater remediation</b>                      Chair: Volker Birke, Ostfalia University of Applied Sciences</p>	<p><b>WE2 Mine site remediation, revegetation and rehabilitation</b>                      Chair: Ravi Naidu, CRC CARE</p>	<p><b>WF2 Advances in waste treatment and management</b>                      Chair: Warren Pump, ERM</p>
<p>WD21 ZERO-VALENT IRON MATERIALS FOR ENVIRONMENT RESTORATION – A RELOOK AT THE UNMODIFIED, CATALYZED, AND SULFIDED IRON                      Weile Yan, Texas Tech University</p>	<p>WE21 REHABILITATION FUTURES FOR COALMINES IN THE HUNTER VALLEY                      Dee Murdoch, AECOM</p>	<p>WF21 IS SEGREGATION OF BONDED ASBESTOS FROM SOIL CHEAPER THAN DIG AND DUMP REMEDIAL METHODS? –REMEDICATION OF ASBESTOS IMPACT IN UNCONTROLLED FILL IN URBAN NSW – A CASE STUDY                      James Boyle, Coffey Environments</p>
		<p>WF22 THE THERMAL BEHAVIOUR OF RED MUD DURING HEAT TREATMENT                      Yanju Liu, University of Newcastle</p>
<p>WD22 EVALUATING THE MOBILITY OF POLYMER-STABILISED ZERO-VALENT IRON NANOPARTICLES (NZVI)                      Laura Chekli, University of Technology Sydney</p>	<p>WE22 RISK ASSESSMENT AND MANAGEMENT OF DERELICT MINES IN NSW                      David Blackmore, Department of Industry-Resources and Energy</p>	<p>WF23 CHEMICAL PROPERTIES OF SEAWATER NEUTRALIZED RED MUD IN RELATION TO REVEGETATION                      Eileen Li, University of Queensland</p>
<p>WD23 DEGRADATION OF MALATHION BY BI-METALLIC FE-NI NANOPARTICLES GRAFTED ON PLYGORSKITE                      Binoy Sarkar, University of South Australia</p>		<p>WF24 REMEDIATION OF COMPLEX HAZARDOUS WASTES: HISTORICAL AND EMERGING CONTAMINANTS                      Annette Nolan, Enviropacific Services</p>
<p>WD24 1D and 3D MnO2 FOR CATALYTIC OXIDATION OF ORGANIC POLLUTANTS                      Shaobin Wang, Curtin University</p> <p>WD25 REMOVAL OF 2,4-DICHLOROPHENOL BY STABILIZED NANO-SCALE ZERO VALENT IRON                      Jiang Xu, East China Normal University</p>	<p>Discussion</p>	<p>WF25 PROFILES AND REMOVAL EFFICIENCIES OF POLYCYCLIC AROMATIC HYDROCARBONS BY TWO SEWAGE TREATMENT WORKS IN HONG KONG                      Ka Lai Chow, Hong Kong Baptist University</p>

LUNCH

**WEDNESDAY, 16 SEPTEMBER 2015**

	CONFERENCE HALL 1 (CCH1)	CONFERENCE HALL 2 (CCH2)	CONFERENCE HALL 3 (CCH3)
13:40 – 15:20	<b>WA3 Climate change and remediation – Panel discussion</b> Chair: Scott Warner, Ramboll Environ Sponsor: Ramboll Environ	<b>WB3 International and Australian developments on remediation strategy decision making</b> Chair: Bruce Kennedy, CRC CARE	<b>WC3 Per-fluorinated compounds</b> Chair: Ruth Jarman, EnRiskS
13:40		WB31 THE EVOLUTION OF REMEDIATION STRATEGY FROM AN INTERNATIONAL POINT OF VIEW Hans Slenders, Arcadis	WC31 PROGRAMMATIC APPROACHES TO IDENTIFICATION AND MANAGEMENT OF PORTFOLIOS WITH SITES POTENTIALLY IMPACTED BY PER AND POLYFLUOROALKYL SUBSTANCES William H. Diguseppi, CH2M
14:00		WB32 DETERMINING THE MOST APPROPRIATE REMEDIATION STRATEGY FOR A CONTAMINATED SITE Peter Nadebaum, GHD Pty Ltd	WC32 DECODING NEW FORMULATIONS OF AFFFs Cheng Fang, University of Newcastle
14:20	Panel discussion	WB33 DESIGNING A REMEDIATION SYSTEM – YOUR SOLUTION IS ONLY AS GOOD AS THE PROBLEM DEFINITION John Hunt, EIC Activities	WC33 THE ROLE OF IRON IN THE FATE AND TRANSPORT AND REMEDIATION OF PFAS Peter Storch, EHS-Support
14:40		WB34 REMEDIATION DECISION MAKING AND MANAGING RISK AND UNCERTAINTY Ian Brookman, Thiess Services Pty Ltd	WC34 PROFICIENCY STUDY OF LABORATORIES ANALYSING PFOS AND PFOA IN WATER AND SOIL Gavin Stevenson, National Measurement Institute
15:00		WB35 REMEDIATION OF COMPLEX CONTAMINATED GROUNDWATER SITES: PERSPECTIVES ON EFFECTIVE DECISION MAKING FOR PROJECT OBJECTIVES Dave Reynolds, Geosyntec	WC35 TREATMENT OF PFCS IN SOILS, SEDIMENTS AND WATER Annette Nolan, Enviropacific Services
15:20 – 15:50	AFTERNOON TEA		
15:50 – 16:30	<b>WA4 Closing plenary lecture</b> Chair: Ravi Naidu		
	WA41 CONTAMINATED LAND: SCIENCE, GOVERNMENT AND THE MARKET – SQUARING THE CIRCLE IN BOTH HEMISPHERES Campbell Gemmell, University of Glasgow		
16:30	<b>LAUNCH OF ELSEVIER JOURNAL ENVIRONMENTAL TECHNOLOGY AND INNOVATION AND OFFICIAL CONFERENCE CLOSING</b>		
17:00	CONFERENCE CLOSED		

MEETING ROOM 11 (M11)	MEETING ROOM 12 (M12)	MEETING ROOM 13 (M13)
<b>WD3 Early career researchers / students – Presentations</b> Chair: Kirk Semple, University of Lancaster	<b>WE3 Advances in remediation technologies</b> Chair: Surampalli Rao, Global Institute for Energy, Environment and Sustainability	<b>WF3 Harnessing the value of waste</b> Chair: Paul Vogel, WA EPA
WD31 IMPLICATION OF MICROBIAL CARBON USE EFFICIENCY IN CONTAMINATED SOIL Yilu Xu, University of South Australia	WE31 SCIENTIFIC ADVANCES AND INNOVATIVE APPLICATIONS IN ELECTROKINETIC REMEDIATION Gordon C. C. Yang, National Sun Yat-Sen University	WF31 ASSESSING CLEAN AND GREEN ENERGY FROM ORGANIC WASTE IN AUSTRALIA Jayant Keskar, CRC CARE
WD32 THE APPLICATION OF NANOPARTICLE MODIFIED ELECTRODES IN MICROBIAL FUEL CELLS FOR ELECTRICITY GENERATION Ying Cheng, University of Newcastle	WE32 AN EXAMINATION OF RECENT FIELD RESULTS FROM IMPLEMENTATION OF ELECTROKINETIC REMEDIATION APPROACHES IN LOW PERMEABILITY SOILS David A. Reynolds, Geosyntec	WF32 ASSESSMENT OF NITROGEN LOSSES THROUGH NITROUS OXIDE (N2O) FROM A WASTEWATER IRRIGATED SOIL Raghupathi Matheyarasu, University of South Australia
WD33 BIOREMEDIATION OF MERCURY BY BACTERIAL STRAINS ISOLATED FROM CONTAMINATED SOIL Khandaker Rayhan Mahbub, University of South Australia	WE33 EVALUATION OF COMMERCIALY AVAILABLE OXYGEN DISTRIBUTION TECHNOLOGIES Cristin L. Bruce, Shell	WF33 USE OF FOOD WASTES TO REPLACE PART OF FISH MEAL IN FISH FEED PELLET FOR LOWING LEVELS OF MERCURY, DDTs AND PAHS IN CULTURED FRESHWATER FISH Yu Bon Man, The Hong Kong Institute of Education
WD34 TWO-WAY INTERACTIONS BETWEEN ORGANOPHOSPHORUS (OP) COMPOUNDS AND SOIL MICROBIAL COMMUNITIES Smriti Rayu, University of Western Sydney	WE34 PHYSICS BASED MANAGEMENT OPTIMIZATION (PBMOTM) FOR WATER RESOURCE, ENVIRONMENTAL REMEDIATION AND DESIGN PROJECTS: THEORY AND APPLICATION Larry M. Deschaine, HydroGeoLogic Inc	WF34 NUTRIENT MANAGEMENT IN ABATTOIR WASTEWATER IRRIGATED SOIL – BIOMASS AND ENERGY PRODUCTION Balaji Seshadri, University of Newcastle / CRC CARE
WD35 EFFECT OF PHOSPHATE ON TOXICITY AND ACCUMULATION OF ARSENIC IN SOIL MICROALGAE Mohammad Mezbaul Bahar, University of Newcastle		WF35 ALGAL BIOMASS AFTER BIOREMEDIATION – AN ECONOMICAL SOURCE FOR BIOSYNTHESIS OF IRON NANOPARTICLES 546 Vidhyasri Subramaniam, University of South Australia
AFTERNOON TEA		