

ALGA 4th ALGA Annual Conference

Land and Groundwater Remediation [stream 1 Wednesday]

Wednesday, 9 March 2011

Session Room 1

Sustainable Management and Remediation

Dr Peter Nadebaum - ALGA

10:30 - 11:10	Keynote: Sustainable Remediation – Myth or Reality	John Lovenburg - CH2MHILL	e107
11:10 - 11:30	Contaminated Land Management in NSW and Ecological Sustainability	Dr Erwin Benker - Dept Environment & Climate Change	e086
11:30 - 11:50	Sustainable Remediation in New Zealand	Joanne Ferry - Tonkin & Taylor	e059
11:50 - 12:10	Sustainable Remediation: The New Benchmark but will it Impact Us?	Dr Louise Cartwright - CCG	e071
12:10 - 12:30	A Sustainability Assessment Framework for Remediation Decision-Making Support	John Lovenburg - CH2MHILL	e108

Sustainable Management and Remediation part 2

Colm Molloy - Golder Associates

14:00 - 14:40	Keynote: Developments in Management of Contaminated Land in the UK and Observations on Europe	Paul Nathanail - Nottingham University	e116
14:40 - 15:00	Economics Analysis of SVE and MPE of Petroleum Hydrocarbons Using Refrigerated Condensation Recovery Technology	Carol Winell-Dearden - ERR Environmental	e083
15:00 - 15:20	Integrated Remediation Solutions	Phillip Mulvey - Environmental Earth Sciences	e043
15:20 - 15:40	Soil, Groundwater and Waste Case Studies: Sustainability Decision Support Tool	Cary Ehrman - Golder Associates	e068
15:40 - 16:00	Discussion..	Audience debate	e203

Communications and Remediation

Paula Drayton - Resource Advisory

16:30 - 16:45	What is Green? - Better Communication of Sustainability	Gerard van Rijswijk - NARGA	e018
16:45 - 17:00	Industrial Hemp - The Complete Environmental Solution	James Vosper - Good Earth	e058
17:00 - 17:15	Pass the Baton - The Emerging Discipline of Environmental Surveying; An Educational Legacy from Pops Remediation in the Sydney Basin	Kate Hughes - Earth Foundation	e112
17:15 - 17:30	Discussion.,	Audience forum	e222

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Land and Groundwater Remediation [stream 1 Thursday]

Thursday, 10 March 2011

Session Room 1

Keynote session

Tony Scott - ALGA

09:15 - 10:00 Keynote: International Experience in Advanced Waste Treatment – What Does the Future Hold? Paul Howlett & Paul Perkins e142

Sustainable Management and Remediation part 3

Gary Smith - AECOM

10:30 - 11:10 Keynote: Development of Public Domain Tools for Sustainability Analysis: The Sustainable Remediation Tool (SRT) and the Performance Tracking Tool (PTT) John Claypool - AECOM e128

11:10 - 11:30 Sustainable Remediation: Selected Metrics for a Range of Soil Remediation Methods Dr John Hunt - Thiess Services e105

11:30 - 11:50 Management of Soil and Groundwater Contamination in the Context of Satisfying CUTEP Chris Bailey - Tonkin & Taylor e049

11:50 - 12:10 Sustainable Laboratory Practice: Reduced Sample Volume Requirements for Organic Analysis Marc Centner - ALS e041

12:10 - 12:30 Discussion..... Audience debate e215

Assessment and Remediation: Case studies

Dr Wayne Drew - Tonkin & Taylor

14:00 - 14:40 Keynote: Christchurch Earthquake Environmental Implications & Reconstruction Challenges Anthony Cussins / Seth Pardoe e117

14:40 - 15:00 Arsenic Bioavailability and Health Risk – Changing Land Use from Horticultural to Residential (NZ case study) Mark Stuckey - Environmental Earth Sciences e048

15:00 - 15:20 Investigation and Remediation of Liquid Mercury Contamination Philippe Finance - Parsons Brinckerhoff e055

15:20 - 15:40 Lead Immobilisation Through Chemical Stabilisation of Waste Material in the Western Suburbs of Melbourne Mark Stuckey - Environmental Earth Sciences e047

15:40 - 16:00 Discussion..... Audience debate e216

Sustainable Management and Remediation part 4

Dr Peter Nadebaum - ALGA

16:30 - 17:30 Keynote: SuRF Australia: Agreeing on the Framework and the Way Forward for Australia - Panel Discussion Peter Nadebaum - ALGA e124

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Land and Groundwater Remediation [stream 2 Wednesday]

Wednesday, 9 March 2011

Session Room 2

Remediation: In-situ Chemical Oxidation

Dick Brown - ERM

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| 10:30 - 11:10 | Keynote: ISCO and How to Apply it Successfully | Dr Dick Brown - ERM | e115 |
| 11:10 - 11:30 | In-Situ Chemical Oxidation in Australia | Denton Mauldin - OTEK | e010 |
| 11:30 - 11:50 | Green, Sustainable Solutions for Environmental Cleanup: Self-assembling Microemulsion (S-ISCO®) Catalysts to Remedy Ecotoxicants | John Collins - VeruTEK | e138 |
| 11:50 - 12:10 | Combining In-Situ Hydrocarbon Remediation Technologies to Optimise Remediation of Recalcitrant BTEX Plumes | Richard Campbell - Hydroterra | e130 |
| 12:10 - 12:30 | Discussion.... | Audience debate | e205 |

Remediation: In-situ Chemical Reduction

Gavin Kerrison - Shell

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| 14:00 - 14:40 | Keynote: ISCR and How to Apply it Successfully | Dr James Mueller - The Adventus Group | e120 |
| 14:40 - 15:00 | Sequenced Permeable Reactive Barrier System for the Pre-Treatment of Nitrate and Remediation of Trichloroethylene | Keely Mundle - Golder Associates | e067 |
| 15:00 - 15:20 | Perchlorate and 1,1,1-Trichloroethane Treatment in an Emulsified Oil Permeable Reactive Barrier | Lowell Kessel - EnviroLogek | e032 |
| 15:20 - 16:00 | Discussion..... | Audience debate | e206 |

Remediation: More In-situ Methods for Soil and Groundwater

Dr Peter Beck - GHD

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| 16:30 - 16:50 | Is There Life After ISCO? The Effect of Oxidants on In Situ Bioremediation. | Dr Dick Brown - ERM | e144 |
| 16:50 - 17:10 | In-situ geochemical fixation of arsenic in groundwater: treatability testing, selection of reagents and field trial design. | Peter Storch - URS Corporation | e145 |
| 17:10 - 17:30 | Incorporating Sustainability Concepts into Site Remediation Using IN-Situ Chemical Oxidation | Dinesh Poudyal - ERM | e151 |

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Land and Groundwater Remediation [stream 2 Thursday]

Thursday, 10 March 2011

Session Room 2

Keynote session..

Dick Brown - ERM

09:15 - 10:00 Keynote: Groundwater Remediation - A New Paradigm Dr Dick Brown - ERM e125

Groundwater Investigation and Remediation

Simon Gracie - EESI

10:30 - 10:50 Hydrogeochemical Dynamic Effects on Metal Mobility in Sand Aquifers Peter Beck - GHD e038

10:50 - 11:10 Contamination of the South Auckland Onehunga Aquifer from the former New Zealand Farmers Fertiliser Site Simon Hunt - URS e140

11:10 - 11:30 Development of an Australian-first In-situ Remediation Method of Chlorinated Hydrocarbon Impacted Groundwater with Fractured Rock Cain Horsington - EESI Contracting e122

11:30 - 11:50 Anaerobic In-situ Bioremediation of BTEX, MTBE and TPH vs. Aerobic In-situ Bioremediation Lowell Kessel - EnviroLogek e033

11:50 - 12:10 Groundwater Analysis: Minimizing False Positives and Negatives – A Key Step in Effective Groundwater Remediation Geoff Anderson - ALS e045

12:10 - 12:30 Discussion..... Audience debate e220

Sustainable Groundwater Remediation

Kevin Simpson - URS Australia

14:00 - 14:20 Incorporating Sustainability into Active Groundwater Remediation Solutions – Lessons Learned and Alternatives to Consider Andrew Labbett - Coffey Environments e087

14:20 - 14:40 A Net Benefit Approach to Determining the Endpoints of Active Remediation Kevin Simpson - URS e014

14:40 - 15:00 Using Enhanced In-situ Bioremediation to Remediated Chlorinated Solvents in the Sand Aquifers Jason Clay - AECOM e111

15:00 - 15:20 Remediation of LNAPL in Fractured Basalt Case Study: Petroleum Fuel Pipeline Release in Victoria William Gary Smith - URS e063

15:20 - 16:00 Discussion..... Audience debate e217

Groundwater Management and Remediation

Dr Erwin Benker - DECCW

16:30 - 16:50 High-Resolution Passive Soil Gas System to Identify Source Areas and Define Groundwater Plume Andrew Wollen - ERR Environmental e073

16:50 - 17:10 Example of a Steady State Landfill Leachate Plume Controlled by Natural Attenuation in a Coastal Sand Water-table Aquifer Alice Plioplis - Environmental Earth Sciences e052

17:10 - 17:30 Mapping Complex Pollution Scenarios: Charting Water Flow Along Lenses of Materials with Differing Permeability Paul Rollins - Willowstick e074

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Land and Groundwater Remediation [stream 3 Wednesday]

Wednesday, 9 March 2011

Session Room 3

Aurecon

Remediation: In-situ Thermal and HVDPE

Dr John Hunt - Thiess Services

10:30 - 11:10	Keynote: In-situ Resistive Thermal Remediation	Dr Bruce McGee - McMillan McGee	e121
11:10 - 11:30	Surfactant Enhanced High Vacuum Dual Phase Extraction (HVDPE) Remediation of Petroleum Contaminated Bedrock Aquifer	George A. Ivey - Ivey International	e022
11:30 - 11:50	Recovery and Reuse of Hydrocarbons with Refrigerated Soil Vapour Extraction: Multiple Case Study Review	Carol Winell-Dearden - ERR Environmental	e082
11:50 - 12:10	Successful Completion of the Largest Thermal Desorption Project in Australia	Dr John Hunt - Thiess	e132
12:10 - 12:30	Discussion.....	Audience debate	e219

Remediation: Soil Washing, Immobilisation

Lionel Etheridge - CH2MHill

14:00 - 14:40	Keynote: Soil Washing and How to Apply it Successfully	Colin Morrell - CleanEarth	e119
14:40 - 15:00	Surfactant Enhanced Soil Washing with Associated Oil Recovery Opportunities North and South American Case Studies	George A. Ivey - Ivey International	e020
15:00 - 15:20	London 2012 Olympic and Paralympics Games: A Case Study in Sustainable Remediation	Lionel Etheridge - CH2MHILL	e109
15:20 - 15:40	Overcoming Limitations of Stabilisation: Co-contamination of Arsenic and Lead	Dr Louise Cartwright - CCG	e072
15:40 - 16:00	Discussion.....	Audience debate	e218

Persistent Contaminants

Jean Meaklim - EPA Vic

16:30 - 16:50	The Challenges for an Environmental Audit of Dioxin Remediation on a Former Sewage Treatment Plant Site.	Ken Mival - URS	e031
16:50 - 17:10	Treatability Study for the Degradation of Pesticide Impacted Soils	Kris Thomas - Parsons Brinckerhoff	e028
17:10 - 17:30	Discussion.	Audience debate	e202

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Land and Groundwater Remediation [stream 3 Thursday]

Thursday, 10 March 2011

Session Room 3

Aurecon

Keynote session...

09:15 - 10:00 Keynote: CRC CARE: Advances in Australian Research

Dr Peter Nadebaum - ALGA

Dr Ravi Naidu - CRC CARE e126

Advances in Assessment

10:30 - 11:10 Keynote: Setting Soil Guideline Values and Bioaccessability - Advances in the UK

Ravi Naidu - CRC Care

Paul Nathanail - Nottingham University e133

11:10 - 11:30 NEPM Issues

Dr Peter Nadebaum - ALGA e136

11:30 - 11:50 Soil Investigation Levels for Radionuclide Contamination from Heavy Mineral Sand Processing.

Dr Ian Swane - Sinclair Knight Merz e005

11:50 - 12:10 Rapid In-Situ Measurement of Hydrocarbons in Soil

Dr Richard Stewart - Ziltek e009

12:10 - 12:30 Discussion,

Audience debate e204

Landfill Gas Management

14:00 - 14:40 Keynote: Development of State of the Art Guidance for Ground Gas and Vapour Assessment, Measurement and Management in the UK

Dr Bob Symons - Labmark

Stuart Cassie - Worley Parsons e118

14:40 - 15:00 Continuous Landfill Gas Monitoring – How Advances In Monitoring Techniques Are Improving Our Understanding Of Landfill Gas Risks

Matt Uttley - Golder Associates e100

15:00 - 15:20 Risk Based Management Decisions For A Gassing Landfill Situated In A Commercial Area

Ian Parkinson - Environmental Earth Sciences e036

15:20 - 16:00 Discussion.....

Audience debate e207

Vapour Intrusion

16:30 - 16:50 Vapour Intrusion Risk Assessment After the NEPM Review

Andrew Mitchell - DECCW

Eric Friebe - GHD e135

16:50 - 17:10 Vapour Intrusion Modelling in Australia – Implementation of Conceptual Models

Tim Chambers - Environmental Strategies e079

17:10 - 17:30 The Secret Tools of the Trade in Landfill Gas Analysis

Dr Peter Novella - SGS e095

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Land and Groundwater Remediation [stream 4 Thursday]

Thursday, 10 March 2011

Session Room 4

GHD

Assessment and Remediation Case Studies

Tracey Bauer - EESI

10:30 - 10:50	Environmental Assessment of Rural Gasworks in NSW	Mark Stuckey - Environmental Earth Sciences	e046
10:50 - 11:10	Simultaneous Oxidative Reductive Chemical Treatment of PAH Contaminated Soils at a Former Manufactured Gas Plant (MGP) Site	George A. Ivey - Ivey International	e023
11:10 - 11:30	Surfactant-Enhanced Chemical Oxidation of Gasworks Waste	Annette Nolan - EnviroPacific	e101
11:30 - 11:50	PAHs – Yes They Can be Bioremediated! And Sustainably!	Tracey Bauer - EESI Contracting	e061
11:50 - 12:10	Bioremediation Under Biohazard Importation Restrictions	Grazia Gargiulo - OTEK	e030
12:10 - 12:30	Remediation of Former Steel Works, Alexandria NSW	Lindsay Killin - EnviroPacific	e042

Closed Auditors Session

Dr Peter Nadebaum - ALGA

13:00 - 14:00	Auditors Meeting	Dr Peter Nadebaum - ALGA	e221
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Brownfields: Commercial and Legal Perspectives

Jennifer McKay - UniSA

14:00 - 14:20	Will Your PI Protect You When It all Goes Wrong	Elizabeth Wild - Henry Davis York	e127
14:20 - 14:40	Brownfield Redevelopment - Options for Risk Free Release of Value	Rick Marmur - OTEK	e129
14:40 - 15:00	Brownfield's Reinstatement	Anthony Saunders - EnviroSure	e106
15:00 - 15:20	Brownfield Regeneration in NSW – Breaking Down the Barriers	David Johnson - RCA	e040
15:20 - 15:40	Disclosure of Information in Contaminated Land Transactions	Charmian Barton - DLA Phillips Fox	e027
15:40 - 16:00	Brownfield Development in Regional NSW - Feasibility Study from a Consultant's and Land Owner's Perspective	Colee Quayle - Coffey Environments	e069