



GROUNDWATER AND SOIL CONTAMINATION ASSESSMENT AND REMEDIATION CONFERENCE

DATE: 21 – 22 August 2017 (Preliminary)
Venue: Emperors Palace, Johannesburg
CPD POINTS: 2 SACNASP, 2 SAICE, 16 GSSA

Tel: 011 431 2251 / **Fax:** 0867184101
Address: 177 Weltevreden Road,
BERARIO, Johannesburg 2195
emails: virginia@ecopartners.co.za
website: www.ecopartners.co.za

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Target Audience

Environmental Geochemists, Mining Environmental Experts, Hydrogeologists, Environmental Managers, Groundwater Modelers, Environmental Engineers, Soil Scientists, Environmental Remediation Specialists, Remediation and Emergency Response Managers, Environmental Risk Managers, Mine Planners, Geologists, Geochemists, Project Managers, Environmental Lawyers, Property Developers, Toxicologists, Academic Researchers, Geoscientists, Environmental Health Experts, Environmental Technologists, Agriculture Environmentalists, Civil Engineers.

Overview

Soil and groundwater management is crucial, but many technical challenges related to remediation comes with varying environmental conditions, contaminants, climate change impacts, pollution pathways and regulatory uncertainty.

This networking opportunity will offer participants a platform to discuss the hybrid disciplines emerging between soil, groundwater, surface water and the management thereof. Latest regulations on contaminated soil will be explored. It will provide an update on recent research findings and development pertaining to remedial methods and technologies. Tried and tested case studies with successful results will be shared giving an insight of available strategies for different contaminants. It will look at strategies to deal with sites which display complex groundwater flow regimes. It will also address a broad suite of contaminants and site characterization for different projects.

Soil and groundwater contamination not only poses significant challenges to scientist, but it has a significant impact on investors, planners and managers alike as the cost of remediation or the liability of contaminated land contribute to lower property values, ever growing rehabilitation provisions and the risk of significant fines.

Confirmed Speakers

- Prof Kai T Witthüser, Director, **DeltaH**
- Dr. Matthys Dippenaar, Senior Lecturer, **University of Pretoria**
- Dr. Marieke de Groen, Director, **AquaLinks**
- Chris Viljoen, CEO, **Viljoen Associates**
- Kobus Troskie, Head CSM, **Groundwater Consulting Services**
- Dr. Kevin Gast, Principal Engineer, **Gast International SA**
- Charlaine Baartjes, Managing Director, **EcoPartners**
- Dr. Shafick Adams, Director, **Water Research Commission**
- Michael Vermaak, Partner, **Bowman Gilfillan**
- Ian Tunncliffe, Director, **Oil Separation Solutions**
- Garyn Rapson, Partner, **Webber Wentzel**
- Piet van Deventer, Senior Lecturer, **North West University**
- Stefan Fourie, CEO, **Watercare Mining**
- Paul de Kock, Partner, **Isometrix**

Benefits

- Evaluate and discuss the latest service and products in the environmental monitoring, containment and remediation
- Learn about innovative site characterisation to reduce project risk and lifecycle costs
- Get up to date with latest research findings, technology and to find innovative solutions for soil and groundwater remediation
- Manage risks of property development and remediate landfills for residential and commercial development
- Real-time monitoring to optimise groundwater remediation outcomes
- Gain an insight from tried and tested case studies

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21 - 22 AUGUST 2017

Day One

07h30 – 08h15 Morning tea and registrations

08h15 – 08h30 Welcome: Chairperson

08h30 – 09h30 **Charlaine Baartjes, MD, EcoPartners**

Discussing and understanding the latest contaminated soil Regulation

09h30 – 10h30 **Prof Kai T Witthüser, Director, DeltaH**

Examining soil and groundwater properties and characteristics

10h30 – 10h45 Mid-morning tea break

10h45 – 11h45 **Chris Viljoen, CEO, Viljoen Associates**

Case Study: Pollution source, seepage pathway receptor contamination dynamics in soil

11h45 – 12h45 **Piet van Deventer, Senior Lecturer, North West University**

Soil degradation assessments: Metal trace element pollution, acid mine drainage and salinity pollution

12h45 – 13h30 Lunch and networking

13h30 – 14h30 **Dr. Shafick Adams, Director, Water Research Commission**

Discussing different contaminant sources and challenges

14h30 – 15h30 **Kobus Troskie, Head CSM, GCS**

Case Study: Hydrocarbon site characterization and the development of comprehensive conceptual site models

15h30 – 16h30 **Dr. Matthys Dippenaar, Senior Lecturer, University of Pretoria**

Contaminant fate and transport investigations and the development of site conceptual models

16h30 End of Day One

Day Two

07h30 – 08h15 Morning tea and registrations

08h15 – 08h30 Welcome: Chairperson

08h30 – 09h15 **Dr. Marieke de Groen, Director, Aqualinks**

Trans-African Hydro Meteorological Observatory (TAHMO): Combining Climate Observation with Forecasting and Improved Monitoring

10h00 – 10h45 **Paul de Kock, Partner, Isometrix**

Topic TBC

10h45 – 11h00 Mid-morning tea break

11h00 – 12h30 **Dr. Kevin Gast, Principal Engineer, Gast International SA**

Case Study: Engineering Axioms in Southern Africa for Impervious Membranes and their Application in Groundwater Protection and Remediation

12h30 – 13h15 Lunch and networking

13h15 – 14h00 **Michael Vermaak, Partner, Bowman**

Gilfillan & Gillian Niven, Partner, Bowman Gilfillan

Assessing and managing the legal risks associated with contaminated land and brownfield redevelopment

14h00 – 14h45 **Garyn Rapson, Partner, Webber Wentzel**

Costs of remediation of both undetected and disclosed contamination and related legal liabilities

14h45 – 15h30 **Stefan Fourie, CEO, Watercare Mining**

Case Study: Rehabilitation of contaminated Industrial and groundwater – process of removing contaminants

15h30 – 16h15 **Ian Tunnicliffe, Director, Oil Separation Solutions**

Pyrolysis of hydrocarbon contaminated soil

16h15 End of the Conference

REGISTRATION

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Full Registration 21-22 August 2017		R6 990 excluding VAT
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- Please note: if your registration fees have not been paid by your company by 11 August 2017, you will be personally liable for the full amount which must then be paid by 18 August 2017, unless written agreement is reached otherwise.
- Attendance is STRICTLY subject to prior payment.
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