

Ground Gas 2018

Assessing and managing ground gas risk

Thursday 1st March 2018, Holiday Inn London – Kensington High Street

09.00 **Registration and refreshments**

09.30 Opening remarks from the Chairman

Hugh Mallett, Technical Director, BuroHappold

09:45 **Setting the Scene: The Ground gas investigation, risk assessment & remediation sector**

- Understating the risks posed by ground gas/VOC;
- Gain the latest updates on British Standards and Industry guidance;
- Management options available; and
- The importance of the verification process.

Dr. Geoffrey B. Card, GB Card & Partners

10.10 **Ground Gas Conceptual Site Models**

- Defining Conceptual Site Models - organising and communicating information about site characteristics;
- Understanding how usage can focus resources;
- Establishing the likelihood of risk; justifying characterisation approaches; and prioritising investigation and remedial resources.

Sarah Mortimer, Associate, EPG

10:35 **Continuous Monitoring – the Lines of Evidence Approach to Ground-Gas Risk**

- Gain a true understanding of the ground-gas regime;
- Make informed decisions based on the robust, high quality data;
- Reduce scale and scope of remediation actions;
- Focus resources on accurately defined problems; and
- Make cost and time savings

Simon Talbot, Managing Director, GGS

11:00 **Question and Answers**

11.10 **Morning Refreshments and Networking**

Gas Protection Solutions - from assessing the risk through to verification

11.35 **Vapour Assessment - Assessing the risks**

- determine the true subsurface gas regime;
- predict how this may change in the future;
- assess the ground-gas risks, and
- manage those risks

Steve Wilson, Technical Director, The Environmental Protection Group Ltd (Confirmed)

12:00 **Gas Protection Solutions, design and components, it's more than just a membrane!**

Peter Atchison, Managing Director, PAgeotechnical Ltd

12.25 **Verifying the installation of gas protection systems**

- CIRIA C735: The process of demonstrating that the risk has been reduced to meet remediation criteria and objectives based on a quantitative assessment of remediation performance;
- The need for all installments to have some form of verification to be built into the process;
- Ensuring verification is proportionate to:
 - the risks from the site, and
 - the experience of the installation operatives
- C735 Decision Structure
 - Complexity of design;
 - No. of plots/buildings;
 - Installation workforce; and
 - Gas regime

Michael Corban, Technical Director, MEC Environmental Ltd

12.50 **Question and Answers**

13.00 **Lunch and Networking**

Sponsored by GeoShield

13.45 **Local Authority Angle**

The Contaminated Land Regime (CLR) under Part 2A of the Environmental Protection Act 1990, Guidance is intended to explain how local authorities should go about deciding whether land is contaminated land in the legal sense of the term. This presentation will focus on the issues Local Authorities face in regards to Ground Gas and how they can overcome the challenges and barriers whilst complying with legislation.

Dr. Anka Asandei, Senior Scientific Officer, Slough Borough Council

14.10 The developer's view of gas risk

- The largely unknown High Court Action in 1988 involving landfill gas and the construction of a new housing development by a major house builder;
- The extent of our knowledge at the time;
- How landfill gas issues have morphed into ground gas issues and how relatively little we know today;
- Finding the right balance between scientific rigour and engineering pragmatism; and
- Fracking: Shale Gas/Coal Bed Methane a reflection on the Government's likely future direction.

Stephen Wielebski, Principal Partner, WA Consultancy Limited & Home Builders Federation, Retained Senior Consultant

14.35 Guidance on Managing the Risk of Hazardous Gases when Drilling or Piling Near Coal

Rachel Norton, Project Manager (Gas Specialist), The Coal Authority

15.00 Radon - why consider it for new dwelling, avoiding problems and getting it right

- measuring and assessing the risk of radon;
- requirements for radon protection Protective measures;
- Basic radon protection over full radon protection;
 - Radon barriers;
 - Radon sumps;
 - Underfloor ventilation
- Protection and verification of the completed radon barrier

Chris Scivyer, Radon Expert, recently retired from Building Research Establishment, BRE

15.20 Question and Answers

15.35 Afternoon refreshments and Networking

Case studies - Ground gas investigation, risk assessment and remediation

15.55 Application and the timing of using "traffic light systems" and other modes of risk Assessment on landfill site developments

Keiron Finney, Director, Exea Associates Ltd

16.20

16.45

17.10 **Question and Answers**

17.20 **Closing remarks from the Chairperson**

Hugh Mallett, Technical Director, BuroHappold