

Ground gas - sampling and assessment techniques



24 September 2008, Penrith

In association with



The workshop will be conducted by Card Geotechnics & EPG Ltd in association with CIRIA

CPD

Each day course has a value of 5 hours towards your CPD

Venue

Penrith

Course fees

LACL members

Free

CIRIA Core members, CIEF, CPN and CIRIA Books Club members

£249+VAT (£292.58)

Non members

£329+VAT (£386.58)

The above prices includes refreshments and workshop papers for the day

Forthcoming events 2008

Risk assessment for ground gases
10 September 2008, Birmingham

CLEA UK
7 October 2008, Wrexham

Contaminated land project management skills
21/22/23 October, Cambridge

How to book

Complete and fax the form overleaf to CIRIA on +44(0)20 7253 0523

or

call the events team on +44(0)20 7549 3300

or

register online at www.ciria.org

The problem

Many professionals have difficulty assessing the significance of elevated ground gas results, especially where it is being generated from sources such as peat, petrol contamination or made ground. There is also a lack of understanding of the additional data that needs to be considered when interpreting gas monitoring results.

A solution

By the end of the course delegates should understand the data that is required to interpret gas monitoring results. They should be able to determine the gas screening value for a site and make a pragmatic assessment of the risk posed by the presence of ground gas on or adjacent to development sites.

Topics covered

- Relevance of different parts of the data (eg flow measurement)
- Using the assessment methods in CIRIA C659 and BS 8485
- How to determine if gas monitoring data is sufficient
- Other data that is needed to interpret gas monitoring results
- Practical examples of interpreting data from different sources (interactive group work)
- Other gases and vapours

Who should attend

- Local authority contaminated land officers, planners, environmental health officers
- Consulting engineers and environmental consultants
- Contractors
- Developers
- Landowners
- House builders
- Regulators
- Researchers and academics

Required level of knowledge

Prior knowledge of the chemistry of landfill gas generation and gas monitoring methods will be required. This is not a course for anyone without some prior knowledge

Programme

09.00	Registration and refreshments	12.15	Practical examples (interactive group work)
09.30	Introduction	<input type="checkbox"/>	Interpretation of gas monitoring data from a number of different sources (landfill sites, Peat, petrol stations, Made Ground)
09.45	What is the relevance of the data and what does it tell us?	13.00	Lunch
<input type="checkbox"/>	Why flow rates are important	13.45	Practical examples continued (interactive group work)
<input type="checkbox"/>	Assessment of sites where only carbon dioxide is recorded	14.45	Other gases and vapours- VOCs
10.30	How to use the new assessment methods in CIRIA C659 (C655) and BS 8485 including determination of the gas screening value and additional data that is required	15.30	Refreshment break
		15.45	Feedback and discussion
		16.00	Summary
11.15	Refreshment break	16.15	Close
11.30	Assessment of the results to see if sufficient data has been collected		



Further information

Venue details issued on receipt of registration form. Please photocopy for additional delegates. Any local authority that joins the LACL Network within one month of attending a workshop, will receive a full refund for one delegate.

Booking form Ground gas - sampling and assessment techniques (E8314)

Delegate name	Course date*

Ground gas - sampling and assessment techniques (E8314) 24 September 2008, Penrith

Contact name: _____

Email address: _____

Confirmation details will be sent by email.

Company name: _____

Position: _____

Address: _____

Post code _____

Telephone: _____

Fax: _____

Payment method

FREE – I am a LACL member

CIRIA, CIEF, CPN, CBC members only £249+VAT(£292.58). Invoice company Please provide purchase order No. _____

Non-member* £329+VAT(£386.58)

I enclose a cheque for _____ payable to CIRIA.

Please charge my Mastercard Visa Amex

Card No.

Security code:

The last 3 digits (Amex 4) of the number printed on the signature strip.

Expiry date:

Cardholder's name as shown on card: _____

Date: _____ Cardholder's signature: _____

Please photocopy this form and fax it to our Events team on +44 (0)20 7253 0523 or mail it to CIRIA, Classic House, 174-180 Old Street, London EC1V 9BP

TERMS AND CONDITIONS

Any booking fee paid will not be refunded unless written confirmation is received at least five working days before the event, substitute delegates are welcome.

*For non-member registrations, your place is confirmed once the registration form is submitted; bookings must be accompanied by payment in the form of cheque or credit card authorisation.

Email confirmation of your booking will be sent out by CIRIA two weeks before the event.

CIRIA reserves the right to vary the programme and cancel the event in case of insufficient bookings.

Personal data is gathered in accordance with the Data Protection Act 1998. CIRIA will only contact you about products and services relevant to you and your organisation



CIRIA's Local Authority Contaminated Land network (LACL) now with 100 members helps local authorities to understand and address their responsibilities regarding land contamination. These include implementing risk assessment and remediation under Part IIA of the Environmental Protection Act 1990 and other statutory duties such required by the Town and Country Planning Act 1990.

LACL complements CIRIA's other networks, the Construction Industry Environmental Forum (CIEF) and the Construction Productivity Network (CPN). It is designed specifically to address the needs of local authority officers with contaminated land responsibilities.

CIRIA is a member-based, not-for-profit organisation with extensive publications on contaminated land issues.

CIRIA's contaminated land research is also highly regarded by construction professionals. An independent study, commissioned by Defra, ranked CIRIA as the most influential non-government body in this area, with guidance that is both accessible and worthwhile.

For further information on LACL membership, and forward programme, please contact the events team at CIRIA:

Tel: 020 7549 3300
 Fax: 020 7253 0523
 Email: enquiries@ciria.org
 Web: www.ciria.org



**sharing knowledge
 building best practice**