



The
Geological
Society

-serving science & profession

North West Regional Group

Meeting

Thursday 27th March 2014

Understanding Volatile Organic Compounds – DNAPLs and LNAPLs – an introduction to their chemistry, behaviour in soil, sampling, analysis and remediation



This presentation will cover an introduction to VOCs, including definitions and structure. Their behaviour in soil depends on many factors including soil composition, moisture content and particle size, all of which will affect their rate of dispersion and degradation. An explanation of diffusion coefficients will also be covered, as this shows how different VOCs will be dispersed at different rates. A discussion on sampling will also be included, covering disturbed soil samples, cores and groundwater, followed by details of analytical procedures – GDFID and GCMS. The final section of the presentation will cover remediation with some example case studies.

Hazel Davidson (Technical Marketing Manager) joined DETS in 2012, but prior to this worked for another environmental laboratory for many years, initially as an analyst, but then in a series of managerial roles. Special projects included the integration of several laboratory acquisitions, relocation of the laboratories to new premises, a Phare project in Bulgaria and Romania (implementing quality systems), and a UN project involving training for Iraqi environmental scientists in Jordan.

Hazel participates on several industry committees – EIC (chair of Labs Group), MCERTS, SCA, BMTA, BSi, the CIRIA asbestos PSG, and SOBRA. She also sits on the EIC subgroup for asbestos.

Hazel is a frequent speaker at conferences.

Venue: Williamson Lecture Theatre, Manchester University, Oxford Road, Manchester M13 9PL (map link)

<http://www.manchester.ac.uk/medialibrary/maps/campusmap.pdf>

Time: Prompt 6:30pm start.

CPD: *These events may be considered for contributing to a recognised Continuing Professional Development (CPD) scheme as part of personal development. Delegates should check their individual scheme requirements.*

For further information contact the Group Secretary, Nik Reynolds at:

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Images: N Reynolds