

GeoEnviroLogic Professional Development

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Soil Vapour Workshop

February 17 and 18, 2009

Vancouver BC

SEMINAR SYNOPSIS

GeoEnviroLogic's Soil Vapour Workshop has been paired with the Ministry of Environment's information sessions in order to provide more detailed information on the new vapour standards and guidance for soil vapour investigation and remediation.

GeoEnviroLogic's presentations start at 2:45 on Tuesday afternoon. GeoEnviroLogic's Tuesday afternoon session will provide information on regulatory aspects, selection of COPCs, and use of available models and spreadsheets.

Wednesday's presentations will focus on "how-to" in terms of investigation layout, sampling methods, analytical methods, and soil vapour mitigation.

PRESENTERS (in presentation order)

- ▶ Greg Sutherland, O'Connor Associates
- ▶ Dave Williams, Meridian Environmental
- ▶ Ross Wilson, Wilson Scientific
- ▶ Ian Hers, Golder Associates
- ▶ Cole Bertsch, Blue Max Drilling
- ▶ Reidar Zapf-Gilje, GeoEnviroLogic
- ▶ Kari Mulroy, ALS Laboratory Group
- ▶ Brent Mussato, CARO
- ▶ Alex Jang, CANTEST
- ▶ Will Gaherty, Pottinger Gaherty

MANUAL TABLE OF CONTENTS

This manual is organized by presenter in the order listed above. Each Presenter has one section, defined by a tab, containing all of his or her presentations. Individual presentation within each presenter's section are separated by a colour sheet of paper.

SEMINAR OUTLINE: FEB 17, 2009

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|-----------|---|
| 2:45-3:00 | Refreshments |
| 3:00-3:30 | CSAP Soil Vapour Panel: Selection of COPC (Sutherland) |
| 3:30-4:15 | Soil Vapour Modeling (Williams) |
| 4:15-4:30 | Wrap-Up |

SEMINAR OUTLINE: FEB 18, 2009

- 8:15-8:30 Refreshments and Introductions
- 8:30-9:00 Soil Vapour Science and Conceptual Models (**Hers**)
- 10:00-10:15 Refreshment Break
- 10:15-10:45 “Risk” Aspects of Soil Vapour (**Wilson**)
- 10:45-12:00 Soil Vapour Sampling Plans and Methods (**Hers**)
- Design of Soil Vapour Investigations
 - Demonstration of Methods
- 12:00-1:00 **Networking Lunch**
- Demonstration of Methods Cont’d
 - Blue Max Drilling (**Bertsch**)
- 1:00-2:45 Analytical Methods for Soil Vapour
- Overview (**Zapf-Gilje**)
 - Summa Canisters: Conventional and Emerging Methods (**Mulroy**)
 - Effect of Tubing Material Used (**Mussato**)
 - Thermal Desorption, XAD, and Charcoal Tubes (**Jang**)
- 2:45-3:00 Refreshment Break
- 3:00-4:15 Soil Vapour Mitigation Solutions
- Soil Vapour Mitigation Engineering (**Gaherty**)
 - Case Studies (**Hers, Zapf-Gilje**)
- 4:15-4:30 Wrap-Up

Greg Sutherland, Ph.D., R.P.Bio.

Dave Williams, Ph.D., P.Eng.

Meridian Environmental

**Ross Wilson, M.Sc., DABT,
R.P.Bio.**

Ian Hers, Ph.D., P. Eng.

Reidar Zapf-Gilje, Ph.D., P.Eng.

**GeoEnviroLogic PD and
Consulting; Adjunct Professor,
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Kari Mulroy, B.Sc.

**ALS Environmental
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