

Odour Assessment and Management

This course provides a practical grounding in the principles of odour measurement (source and ambient), assessment and control. Odour is a challenging issue in many communities, involving both technical and social complexities. The course includes intensive workshop sessions and uses extensive reference to case studies to illustrate the principles.

Now running over 3 days, this course will take you from the basic principles through to complex real-world situations where those principles can be seen at work.



ISSUES ADDRESSED

DAY 1 THE PRINCIPLES

- The human odour response
- Workshop 1: odour perception testing
- Odour sources and generation mechanisms
- Workshop 2: process analysis of time-varying odour emissions, from an area source and an industrial process
- Odour measurement
- Workshop 3: using a dynamic olfactometer and determining odour concentration.

DAY 2 MODELLING AND ASSESSMENT

- Impact assessment principles
- Emissions estimation and dispersion modelling: Learn about how to estimate odour emissions and model their impacts
- Workshop 4 – Modelling Exercise: hands-on workshop session to gain basic skills in odour modelling and evaluation of model results using real-world examples.

DAY 3 ODOUR REGULATION, CONTROL AND MANAGEMENT

- Regulatory approaches to odour management: Gain an overview of how different jurisdictions regulate odour
- Control technologies and design principles
- Practical management principles
- Workshop 5: Prosecution for odour offence

WHAT DO YOU GET?

- Access to leading Australian odour practitioners
- Course notes and resource material
- Intensive workshop sessions based on real case study material
- Practical understanding and tools to help you address odour management problems in your workplace
- Australian case studies and exercises

WHO SHOULD ATTEND?

Anyone who wants an excellent grounding in the principles of odour measurement, assessment and control. Including environmental managers, air quality managers, regulatory agency officers, local government environmental officers, consultants and researchers.

Go to www.iwes.com.au for the extended course outline

Geordie Galvin

Geordie Galvin is a Principal Environmental Engineer with Astute Environmental Consulting. He has over 20 years' experience in air quality assessment and currently is involved in air quality projects across Australia. He has completed numerous air quality studies including projects involving wastewater treatment plants, chicken farms, piggeries, cattle feedlots, ethanol plants, soil conditioning operations, and alumina refineries. He has consulted to local and state government agencies throughout Australia and to universities in the United States including University of Nebraska, University of Delaware and West Texas A & M. Geordie has also given numerous invited workshop presentations on odour sampling and analysis in the United States and Australia.



In addition to consulting work, Geordie has acted as an expert witness for numerous court cases in Australia and New Zealand. He has bachelor and masters degrees in environmental engineering and is a member of the Institute of Engineers Australia, a Member Engineer of the American Society of Agricultural and Biological Engineers and the Clean Air Society of Australia and New Zealand (CASANZ). Geordie is currently the Chair of the odour special interest group (OSIG) within CASANZ.

Registration Form, 7 - 9 November 2018



Cost of Registration (inc. GST)

Register pre 1 October \$2480
Register after 1 October \$2680

Discounts for organisations registering multiple delegates

2 - 3 delegates = 5% 4 - 5 delegates = 10% 6 and over = 15%
 AWA Member = 10% AWA membership number: _____
 UQ Alumni = 10% UQ student number: _____

Registration Details

Dr Mr Mrs Ms First name Last name
Organisation Address
Phone Email

- I have dietary requirements. Details _____
- Please add my contact details to the IWES enews so I can receive updates on upcoming events.
- Please send me more information on WaterAid Australia.

Send completed form to IWES by email: info@iwes.com.au

UQ ABN: 63 942 912 684

TERMS AND CONDITIONS

1. Cancellation of registration less than 3 weeks before the starting date of a course(s) will incur a cancellation fee of 50% of the course price. Alternatively, delegates may send a substitute. 2. While every attempt will be made to deliver all advertised courses, IWES reserves the right to cancel individual courses at short notice. 3. Only registrations submitted and invoiced in one batch qualify for multiple registration discounts. 4. AWA Member and UQ alumni discount can not be used in conjunction with any other offer/discount.

Contaminated Site Assessment and Remediation

The aim of this course is to provide an overview of the required processes for managing contaminated or potentially contaminated sites. The course explains what steps need to be taken when you encounter soil or water contamination, what options are available, and the regulatory requirements that need to be satisfied.

A PFAS impacted site will be reviewed as a case study, and PFAS impacted soil and groundwater remediation discussed. Participants will also gain an understanding of the protocols and processes undertaken in order to investigate and remediate soil and ground water contaminated sites.



ISSUES ADDRESSED

DAY 1 What do you do when a site might be contaminated ?

- How to determine if the site is known or suspected of being contaminated
Commissioning an appropriate Stage 1 - (PSI)
What are the options following a PSI?
Explanation of stage 1 and 2 site investigations
- Guidelines and investigation thresholds
Overview of the NEPM Amendment (2013)
ANZECC/ARMCANZ 2000
NHMRC/NRMMC 2004 (Drinking Water)
- Review of proposed changes to the Qld EHP Contaminated Land Guidelines and other Qld issues.
- Workshop 1: Contaminated site assessment

DAY 2 Tools for Site Investigations

- Contamination in soil: Overview of soil science; Soil sampling and analysis; Interpreting results; Techniques for remediation
- Contamination in water: Overview of ground water (hydrogeology) and surface water (hydrology); Water sampling and analysis; Interpreting results; Techniques for remediation including PFAS in groundwater
- Workshop 2: Contaminated site analysis

DAY 3 Site visit & site remediation case studies

- Visit to a contaminated site that has been remediated and redeveloped into a modern shopping centre. Site walkover with explanation of site history and Site Management Plan. Site briefing notes will be provided for review on the way. Lunch break included at the site.

WHAT DO YOU GET?

- Access to leading practitioners in contaminated land & hydrogeology
- An understanding of the fundamental steps required to investigate, remediate and validate contaminated sites
- A good introduction to the relevant guidelines, investigation thresholds and regulatory requirements for contaminated land
- Course notes (hardcopy & USB) & resource material
- A visit to participate in a real site assessment

WHO SHOULD ATTEND?

The course is specifically designed for anyone who is dealing with issues related to contaminated land or ground water. The course will provide insight and understanding to assist people to work with environmental consultants or local councils, and will be invaluable for environmental scientists, engineers, consultants, town planners or developers wishing to enhance their knowledge of contamination issues and processes.

Go to www.iwes.com.au for the extended course outline

Brian Fainton

Brian Fainton is a Principal Environmental Consultant with Pacific Environment, and has over 14 years' experience in consulting and industry sectors in Australia and the UK, principally within the field of contaminated land and environmental management.



Brian has broad experience with the investigation and remediation of industrial and non-industrial sites including mines, service stations, bulk fuel facilities, airports, schools, heritage sites and research facilities, and is a 'Suitably Qualified Person' within this field in Queensland. Having spent 5 years in the oil and gas industry in Queensland, Brian has a strong understanding of compliance and regulatory requirements and an appreciation for the client's perspective.

Registration Form, 7 - 9 November 2018



Please register me for the following course:

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