

THE AIR POLLUTION CONTROL  
EQUIPMENT MANUFACTURERS  
ASSOCIATION OF AUSTRALIA, PRESENTS

# DUST AND FUME CONTROL TECHNOLOGIES

## ISSUES, PROBLEMS AND SOLUTIONS FOR USERS AND SPECIFIERS

- Regulatory requirements
- Technology overview
- Electrostatic precipitators
- Scrubbers
- Baghouses
- Fabric filter media types
- Emission monitoring and technology
- Cleaning systems
- Hoods and fans
- Thermal oxidisers
- Gas/Odour & problem contaminants
- Dust explosions
- Case studies and user applications

**2009**

**TECHNICAL UPDATE SEMINAR**

**WEDNESDAY 25TH AND  
THURSDAY 26TH MARCH 2009**

**GRAND MERCURE, HUNTER VALLEY  
NEW SOUTH WALES**

**SPECIAL SESSION**

**Contract Risk Management and  
Systems Specification  
– TressCox Lawyers**

**AN EXPERT GROUP OF SPEAKERS FROM APCEMA**

## APCEMA MEMBERSHIP

<b>Aireng</b>	<b>Ecotech</b>	<b>MIDECO Dust Control</b>
<b>Albany International</b>	<b>Eximo</b>	<b>POGC Sensor Technology</b>
<b>Alstom Power</b>	<b>Fowlerex Technologies</b>	<b>Sefar Filter Specialists</b>
<b>Australian Rollforming Manufacturers</b>	<b>Gasco Pty Ltd</b>	<b>Stephenson Environmental</b>
<b>CMC Technologies</b>	<b>GCD International</b>	<b>Total Air Pollution Control</b>
<b>Dustek</b>	<b>Group Instrumentation</b>	<b>Tyco Environmental Systems</b>
<b>Dustech Engineering</b>	<b>Enerflex Environmental</b>	<b>United Air Specialists</b>
<b>Dwyer Instruments</b>	<b>Indux Air Systems</b>	
	<b>Lear Siegler Australasia</b>	

## WHO SHOULD ATTEND

Staff involved in the design, specification, purchasing, operation or maintenance of dust and fume control systems including:

- Production managers
- Engineering managers
- Project engineers
- Consulting engineers
- Manufacturing managers
- Plant engineers
- Maintenance engineers
- Maintenance staff
- Purchasing staff
- Environmental officers

ORGANISED BY

AIR POLLUTION CONTROL  
EQUIPMENT MANUFACTURERS  
ASSOCIATION



SUPPORTED BY

 AUSTRALIAN INDUSTRY GROUP

# DUST AND FUME CONTROL TECHNOLOGIES



## This seminar will enable participants to:

- Review current and projected developments in the regulatory environment
- Understand the range of problems for meeting dust and fume control requirements
- Determine the capability, design and operation of key control technologies
- Identify performance and maintenance principles of dust and fume control
- Better assess proposals for solutions to specific problems
- More effectively specify dust & fume performance requirements

### EXPECTED OUTCOMES

Participants will be able to: improve their proposal specification; review the effectiveness of their current dust and fume control technologies; be in a better position to improve the performance of their existing technologies; anticipate potential operating problems in dust and fume control systems and differentiate between the various alternative methods for controlling dust and fumes.

### VALUABLE SEMINAR DOCUMENTATION

- A comprehensive technical manual
- Australian industry capability directory in dust and fume control technologies.

**Certificate presentation** – Every delegate at this seminar will be awarded a certificate to acknowledge their participation in the full program.

**Networking opportunity** – This seminar provides an exceptional opportunity for networking and to find out how other companies handle dust and fume control problems.

**Case study workshops** – Speakers will discuss issues in dust and fume control technology raised by participants during case study sessions.

### SEMINAR FORMAT

Our format is interactive and practical giving participants the opportunity to solve business problems, using proven methodologies and expert advice. The objective is to provide lasting benefits by improving decision making and helping participants in their ability to minimise the costs of introducing, modifying and maintaining dust and fume control technologies. If you have a specific problem or issue that you would like addressed at the seminar please contact David Richardson at APCEMA on Tel: 61 2 9466 5566 or email details to [dsr@aigroup.asn.au](mailto:dsr@aigroup.asn.au)



### MINIMISE THE COST OF DUST AND FUME CONTROL

Plant owners and operators need to ensure effective specification and installation of a dust and fume control plant and to follow this through with professional operation and maintenance of the equipment. The better informed you are on these matters, the better you will be able to minimise the costs of complying with dust and fume control requirements.

By attending this important technical seminar you will have the opportunity to listen to and question respected industry experts presenting an extensive coverage of dust and fume control technologies.

# TWO DAY SEMINAR OUTLINE

This seminar is a two day program incorporating the following topics:

## REGULATION AND LEGISLATIVE ISSUES

Considers the legal requirements for dust and fume control including responsibilities of plant operators.

## TECHNOLOGY OVERVIEW

Analyses major solutions to meeting EPA requirements: Provides an overview of the relevant technologies as a lead into the rest of the program.

## HARDWARE SOLUTIONS

The use of electrostatic precipitators, wet and dry scrubbers and cyclones. Issues include: what does each option offer? When should they be used? Capital costs, design considerations and running cost comparisons.

## FABRIC FILTERS (BAGHOUSES)

Selection criteria for fabric filter baghouses; design types of filters.

## ANCILLARY EQUIPMENT

### Cleaning Systems for Reverse Jet Pulse Dust Collectors

Cleaning system components and operation. Common problems; the cost of inadequate systems and the payback from investment in good systems.

### Dust Collection Systems

Hoods and fans design function, potential problem areas and fundamental rules for good practice.

### Fabric Filter Media Types

Fabrics used, finishes, surface treatments and coatings and new technologies.

## OPERATION, MAINTENANCE AND TROUBLE SHOOTING

A maintenance check list for baghouses – the installation and maintenance of bags; pressure differentials; principles of dust collection; baghouse performance and monitoring and troubleshooting.

## BAGHOUSE FAILURE ANALYSIS

This session addresses the causes of filter bag failure, tests to evaluate the condition of a failure and opportunities for cost savings.

## EMISSION MONITORING AND TECHNOLOGY

Addresses emission monitoring of particulate and gases, including continuous versus grab, triboelectric versus opacity and compares available technologies to best suit the application.

## KEY RISK MANAGEMENT SESSION

### CONTRACT RISK MANAGEMENT AND SYSTEMS SPECIFICATION

Brian Ambler, Partner, TressCox Lawyers will present practical guidelines for accurately specifying your system requirements and effectively assessing suppliers' tenders plus provide advice on contractual risk management issues and how to obtain more favourable contract terms.

### THERMAL OXIDISERS AND VOC EMISSION MANAGEMENT

Principles of thermal oxidiser design and operation. Where, why and how the thermal oxidiser applies, plus energy and emission considerations.

### GAS/ODOUR AND PROBLEM CONTAMINANTS

- Includes discussion of adsorption, scrubbing, catalytic and biological treatments and odorous contaminant monitoring.
- Hazardous and explosive dusts covers the causes of dust explosions, preventive measures, controlling the effects of dust explosions to Australian and overseas standards.

### TROUBLE SHOOTING WORKSHOP

A panel of APCEMA presenters provide expert practical advice on site specific issues raised by participants exploring type of application, the range of technology options, the reasons for selecting a particular option and the outcome of the installation. Case Study 1 – Baghouses. Case Study 2 – Hot and Sticky Gas Filtration.

## THIS SEMINAR IS NOW IN ITS 18TH SUCCESSFUL YEAR

Here's what other participants have to say about it.

**"Great networking and excellent information."**

**"A well organised seminar, with excellent practical information."**

**"An education process: we will be enrolling additional employees at future seminars."**

**REGISTER NOW TO SECURE YOUR PLACE**

**TWO EASY WAYS TO REGISTER – PLEASE FORWARD YOUR REGISTRATION TO DAVID RICHARDSON (APCEMA) ON FAX: 02 9466 5432 OR MAIL THIS COMPLETED FORM TO: APCEMA C/- Ai GROUP PO BOX 289 NORTH SYDNEY NSW 2059**

# DUST AND FUME CONTROL TECHNOLOGIES

**Date:** Wednesday 25th and Thursday 26th March 2009

**Venue:** Grand Mercure, Hunter Valley Gardens, Corner Broke & McDonald Road, Pokolbin, New South Wales

**Registration:** Wednesday 25th March 2009, 8.30 AM – 9.00 AM  
Overseas delegates please make payment in Australian dollars.

**Seminar fees per person:**

**Single** – (inc. GST) \$850

**Group** – for 2 or more from the same company (inc. GST) \$750

Fee includes lunch, refreshments, and seminar documentation.

**Enquiries**

David Richardson at APCEMA

Tel: 02 9466 5566

Fax: 02 9466 5432

Delegates are requested to make their own accommodation arrangements.

BUSINESS NAME \_\_\_\_\_

ATTENDEE 1 – NAME \_\_\_\_\_

POSITION \_\_\_\_\_

ADDRESS \_\_\_\_\_

STATE \_\_\_\_\_

POSTCODE \_\_\_\_\_

TELEPHONE BUSINESS ( ) \_\_\_\_\_

FACSIMILE ( ) \_\_\_\_\_

MOBILE \_\_\_\_\_

EMAIL \_\_\_\_\_

ATTENDEE 2 – NAME \_\_\_\_\_

POSITION \_\_\_\_\_

- Cheque made payable to Air Pollution Control Equipment Manufacturers Association is enclosed for \$ \_\_\_\_\_  
Mail to: APCEMA c/- Australian Industry Group PO Box 289 North Sydney NSW 2059 or Fax: 61 2 9466 5432
- Payment by Direct Credit – Bank: St George, Branch: 75 Walker Street, North Sydney Account Number: 039657309,  
Account name: Air Pollution Control. BSB: 112 – 879.

Cancellation Policy – Registration may be cancelled up to five working days prior to commencement of course with participants either transferring to another course or receiving a full refund. If no cancellation notice is received or cancellation is made less than 5 days prior to commencement of course, no refund will be issued and transfer to another course will incur a fee of 50% of the course cost. You may substitute another participant at any time prior to course commencement date should the nominated person be unable to attend. Ai Group reserves the right to cancel or postpone a course to an alternative date. All registered participants affected by such changes will receive a full refund or be offered the opportunity to transfer to the next available course program. Privacy Policy – The Australian Industry Group is bound by the National Privacy Principles under the Privacy Amendment (Private Sector) Act 2000. The personal information disclosed by you to us will be used for the purpose of identifying you and confirming your participation. If applicable, financial information disclosed by you will be used only for the purposes of effecting the transaction to which it relates, and will be kept securely until legally able to be deleted. Otherwise, the personal information disclosed will be used by us to communicate with you about our products and services. If you do not want to receive communications from us about products or services unrelated to this transaction, please inform the above contact. Details of our Privacy Policy are available from the contact specified on this form.



## ABOUT APCEMA

The Air Pollution Control Equipment Manufacturers Association is the Australian body representing companies involved in the dust and fume control industry. APCEMA was established in 1987 with the primary purpose of providing a technical expertise resource for governments and industry, and enhancing the skills levels of designers, users and specifiers of dust and fume control equipment. APCEMA is managed by the Australian Industry Group, Australia's leading industry association. The members of APCEMA include leading manufacturers and suppliers of fabric filters, air filters, electrostatic precipitators, wet scrubbers, filter media, fans, valves and pneumatic conveying equipment. For further information please call David Richardson on 61 2 9466 5566, or go to [www.apcema.org.au](http://www.apcema.org.au)

ORGANISED BY

AIR POLLUTION CONTROL  
EQUIPMENT MANUFACTURERS  
ASSOCIATION



SUPPORTED BY



AUSTRALIAN INDUSTRY GROUP