

Efficiency Tests

Twice in the last three months we have been asked to conduct efficiency tests for process evaluation. This is a stringent exercise which stretches our capability. Two teams of two are required; inlet and exit loadings for several parameters are determined simultaneously. Coincidentally both these exercises involved a wild card – the first a super-saturated gas-stream, and the second a hot (>500°C) gas-stream. Such exercises are valuable to both us and our clients. The results have substantial financial consequences. Such non-routine work represents a challenge for us all and gives a welcome break from routine.

Process Trials

As well as efficiency tests we are also asked from time to time to monitor gas flows and emissions in association with process trials. For example, resin changes in the wood industry and temperature changes in a baking oven affect emissions.

Please discuss your requirements with us.

Exam Results

It's that time of year again.

- Jenny McSweeney graduated BDS on 7 December.
- Andrew Parkin has passed all his papers this year.
- Deborah Kendon has passed all her second semester papers after working full time for ARM in the first semester.

Web Site

You are invited to log on to our web site:

www.airresourcemanagement.co.nz

Our email addresses remain the same.

Tyler would be interested in your response to his design and compilation of the web site.

January 2003

Where we are and how to contact us

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Kyoto Protocol

Following our comment in Fresh Air August 2001 we have recently decided to become active in the alternative energy

field. In our own fleet of vehicles three different fuels are used and our experience in running them together with our knowledge of emissions will help us in assessing the least-polluting option.

We have also obtained the services of an alternative-energy expert who is presently engaged in a tender on our behalf.

Odour Tests

A number of odour tests we have conducted lately highlight the general inadequacy of this line of testing.

- high systematic error
- not suited to sampling of high-moisture gas-streams
- high cost
- doubtful benefit

In general, if one of our clients has an odour problem we advise maximum effort should go into alleviation and control, and minimum expenditure on odour testing. Consent authorities react to odour complaints (we have noted two coffee-roasting incidents recently) and issue abatement notices without reference to odour tests.

Hazardous Substances Enquiry

The Minister of Labour has established an inquiry into the management of the chemicals glutaraldehyde, other aldehydes, solvents and other organic compounds in the workplace.

ARM is competent to address the technical aspects, especially measurement, of these substances.

Any client wishing to be associated with a prospective submission to the Inquiry is invited to contact us.

Submissions close on 17 February 2003.



The new heated glass probe and controller

ARM At Work



Deb at Purewa Crematorium inspecting the filter holder on the glass probe



Tyler in full heat shielding kit for a test at New Zealand Steel

Glass Heated Probe

As an IANZ requirement we have purchased an all-glass nozzle plus heated sampling probe. This device can be used for chemical sampling where stainless steel (in our old probe) is unsuitable.