

Booking form

FOGs build up and removal: problems and solutions

24 March 2010

Standard delegate fee £90.

Surname _____

First name _____

Prof Dr Mr Mrs Miss

Position _____

Company _____

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Please find enclosed a cheque for

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Start date

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Date _____

Please state any special dietary requirements _____

Conference fee

The fee covers attendance, lunch, delegate coffee breaks and full meeting documentation. The fee does not cover travel or accommodation.

Cancellations and substitutions

All cancellations must be notified in writing to the Academic Operations Unit prior to 17th March 2010 and will be refunded in full. After that date, refunds will only be issued in exceptional circumstances. However, the organisers will accept substitutions provided that written notification is received.

Data protection

Please tick this box if you do not wish your details to be held by Cranfield University for the purpose of marketing courses, conferences, research programmes and other associated activities.

For further information contact the Academic Operations Unit:

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F: +44 (0) 1234 751206

E: shortcourse@cranfield.ac.uk

Please detach and return this form to:

Academic Operations Unit, Cranfield University,
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Centre for Resource Management and Efficiency

The Centre for Resource Management and Efficiency is the focus for research, training, education and consultancy in waste and related resource management within Cranfield University. The Centre is a key contributor to the Department of Trade and Industry-funded knowledge transfer network in integrated pollution management – Environmental Knowledge Transfer Network.

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The Centre for Water Science is an internationally-recognised centre of excellence that undertakes consultancy, research and training in science, engineering and management of water in the municipal, industrial and natural environments. The Centre's activities encompass water and wastewater treatment, engineering, irrigation, governance, water supply and sanitation in developing countries, human dimensions and policy evaluation.

Supported by:



Contact

For further details including registration information please contact:

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www.cranfield.ac.uk/sas/fogs



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24 March 2010

In association with:

anglianwater

Introduction

There are approximately 200,000 blockages throughout the UK every year of which up to 75% are caused by fats oils and grease. The production of oils and fats for cooking has trebled since the 1960s. Hundreds of thousands of litres of FOG are used every week and much of it ends up in the sewer instead of being disposed of correctly or collected and recycled in free, regulated and regular schemes.

At any one time, Anglian Water estimates around 10 per cent of its sewer network is clogged with waste fats oils and grease (FOG). Jetting out sewers costs over £5million a year in the Anglian Water region. Reducing these costs helps keep bills low for householders.

The objective of this event is to highlight the innovative processes being developed and employed to minimise the environmental impact of FOGs in all its forms; and to identify effective ways to manage and remove it at source.

Who should attend?

This conference will be of interest to utility managers, regulators, food process engineers, developers and planners, consultants, contractors, researchers and postgraduate students from a range of disciplines and professions with heightened interest in technological solutions for FOGs removal and their management in the UK. The conference provides a timely opportunity to review future developments in a UK context.

Conference programme

- 09.15 *Registration and coffee*
- 09.30 *Welcome and opening*
Dr Raffaella Villa, Cranfield University, UK
- 09.40 *Framing the problem*
Phil Mills, Water UK
- 09.55 *The environmental perspective*
Julian Arikans, Environment Agency
- 10.15 *Water utilities problem and solutions*
Steve Kaye, Anglian Water
- 10.35 *Fats, Roots, Oil and Grease (FROG) in US sewer systems*
Professor Kevin Keener, Purdue University
- 10.55 *Coffee break*
- 11.20 *FOG removal performance of GIs and chemical treatment of roots in sewers*
Professor Joel Ducoste, North Caroline State University
- 11.40 *FOGs in sewers in UK*
Dr John Williams, Portsmouth University, UK.
- 12.00 *Separation process in a grease trap*
Paul Barton, Cranfield University, UK
- 12.20 *The Chemistry and biochemistry of grease traps*
Dr Philip Caunt, Genesis Biosciences
- 12.40 *Lunch*

- 14.00 *Chairman's afternoon introduction*
- 14.05 *The use and the benefits of bacterial products in grease traps*
Ken Richardson, Bio Industries
- 14.25 *FOG management: Dublin City Council's experience*
Michael O'Dwyer, Dublin City Council
- 14.45 *FOG management problem*
Philip Soden, Compliance Consulting
- 15.05 *Grease management systems - the nitty gritty!*
Reg Illingworth, Dyno-Rod
- 15.25 *Coffee break*
- 15.45 *BS EN 1825 – an overview*
Martin Fairley, ACO Technologies plc
- 16.05 *Topic to be confirmed*
Dr Elaine Groom, QUESTOR
- 16.25 *Closing remarks and close of meeting*
Dr Bruce Jefferson, Cranfield University, UK

Technical programme devised by Dr Raffaella Villa and Dr Bruce Jefferson, Centre for Resource Management and Efficiency and Centre for Water Science, Cranfield University. Cranfield University reserves the right to change the programme without prior notification.