

Appropriate Application of Stabilisation/Solidification for Treatment of Wastes and Contaminated Land



... a Poster Event to disseminate results from the ProCeSS Project

in association with

16 December 2009, London



CPD

This course has a value of 2.5 hours towards your CPD



ProCeSS*

The ProCeSS project is co-funded by the UK Technology Strategy Board's Collaborative Research and Development programme, following an open competition, and is led by University College London, with the participation of 21 partners from academia and industry. The project website is at: www.cege.ucl.ac.uk/process.

The Technology Strategy Board is an executive body established by the Government to drive innovation. It promotes and invests in research, development and the exploitation of science, technology and new ideas for the benefit of business - increasing sustainable economic growth in the UK and improving quality of life. For more information visit: www.innovateuk.org.

Location

Department of Civil, Environmental and Geomatic Engineering
Chadwick Building
University College London
Gower Street, London WC1E 6BT

Course fees

This event is FREE of charge

E9513

Make your booking easier

Register and book online at www.ciria.org

Complete and fax to CIRIA on: +44(0)20 7253 0523

or post to

CIRIA
Classic House
174-180 Old Street
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Background

CIRIA, in collaboration with the ProCeSS* consortium, invite you to a poster event to engage with the results of a four-year project funded under the TSB Technology Programme.

Treatment of all hazardous waste prior to disposal is now mandatory, and this represents a significant extra cost to some industrial processes, and construction projects where hazardous materials are present on site. Stabilisation/solidification with cement-based binders (S/S) is an option to treat wastes from the chemical, metal and other industries that can not be prevented or reduced.

The objective of the ProCeSS project is to develop process envelopes (also known as "operating windows"), that define the limits of applicability of S/S to the most common or problematic residual wastes. The overall aim is to increase technology transparency, informing choices between treatment options, guiding use and marketing of S/S by industry, preventing technology failures, enabling confident approval of S/S by regulators, and providing fundamental data about contaminant immobilisation mechanisms for development of predictive models of long-term behaviour for risk assessment.

The waste types investigated are contaminated soils, metal-containing sludges from physicochemical treatment of industrial wastes, air pollution control residues from municipal solid waste incineration and electric arc furnace dust from the iron and steel industry.

The immobilising binder systems incorporated various proportions of Portland cement (CEM I), ground granulated blastfurnace slag, coal-fired power station fly ash, lime and silica fume.

The most significant results will be highlighted and poster summaries presented about:

- screening and treatability procedures
- performance of stabilised/solidified products containing the above wastes in a range of physical and chemical tests, including regulatory leaching procedures
- capabilities of the industrial collaborators

The event includes an update from a regulator's view on the role of S/S in waste management and a practitioner's perspective on the applicability of S/S technologies.

Programme

13:30 Registration, refreshments and networking (Chadwick Structures Lab)

14:00 Project leader's introduction (Chadwick Lecture Theatre)

Julia Stegemann, Reader in Environmental Engineering, University College London

14:10 A regulator's view on the past, present and future of stabilisation/solidification

Paul Fernee, IPCC Waste Technical Advisor, Environment Agency

14:25 Stabilisation/solidification and other options for management of MSWI APC residues

Peter Lewis Technical Manager, Veolia Environmental Services

14:40 Questions

15:00 Poster session, drinks and mince pies

16:30 Close of event

If you are interested in viewing the preliminary list of posters and/or displaying a poster at this event, please contact: joanne.kwan@ciria.org

Booking form

Email	_____
Title	_____ First name _____ Surname _____
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