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Announcement: Award-winning papers in 2009

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Papers published in *Waste and Resource Management* are eligible for awards from the Institution of Civil Engineers. Papers from any of the ICE journals can be nominated for several awards. In addition, each journal has awards dedicated to their specific subject area.

On Friday 8 October 2010, ICE president Paul Jowitt presented an award to the following papers published in *Waste and Resource Management* in 2009. The editorial panel nominated their best papers and an awards committee chaired by Barry Clark allocated the awards.

The Telford Premium prize was awarded to: Fannin CA, Spraggs RE, Danes P and Mortimer RJG (2009) Wetland system for primary treatment of landfill leachate. *Proceedings of the Institution of Civil Engineers, Waste and Resource Management* **162(2)**: 75–83, **doi**: 10.1680/warm.2009.162.2.75.

Abstract

A proprietary constructed wetland system has been developed as a long-term sustainable alternative for the treatment of high-nitrogen effluents such as landfill leachates. The system design is an enhancement of the microbiological processes that occur naturally in salt-marsh systems and extends the process capability of traditional vertical-flow constructed wetlands. Performance monitoring has demonstrated treatment rates of 69–95% per cell from a methanogenic landfill leachate influent containing 1400 mg/l ammoniacal-nitrogen at both pilot and laboratory scale. Two systems are currently being commissioned in the UK and applications for a further two systems are being considered by the UK Environment Agency.

Photo caption: ICE president Paul Jowitt presents the Telford Premium award to Craig Fannin, Rachael Spraggs, Paul Danes and Robert Mortimer

The Baker Medal was awarded to: Alexander C, Smaje C, Timlett R and Williams I (2009) Improving social technologies for recycling. *Proceedings of the Institution of Civil Engineers, Waste and Resource Management* **162(1)**: 15–28, **doi**: 10.1680/warm.2009.162.1.15.

Abstract

Although kerbside recycling participation rates have been well studied, little consideration has been paid to dense housing, especially high-rise estates, even though such areas have particularly low participation rates. Because such areas present infrastructural difficulties for recyclates storage and collections, reduced service often results. Nevertheless, solutions still emphasise communication strategies and householder responsibility over adequate infrastructural provision. This paper draws together three empirically based analyses focusing on the improvement of waste collection procedures and infrastructural design for high- and low-rise dense housing. Two sites were studied: an inner London estate and Portsmouth. Both sites have minimal storage space either within the home or in external private, communal or public areas. Both areas have high churn rates. Analysis of the findings suggests that consideration needs to be given to several factors: social, architectural, technological, infrastructural and organisational. Communication strategies need to be simple and consistent and need to acknowledge non-Anglophone residents. Spatial ownership needs to be clearly demarcated and maintained. Solutions must be tailored to existing exigencies of the built environment (such as poor vehicular access) and need to include broader infrastructural factors such as functioning lifts and convenient, safe storage facilities. New-build is better placed to integrate a flexible collection infrastructure. However, pressure to increase housing density is providing a continuing challenge to design appropriate storage and collection infrastructures.

Photo caption: ICE president Paul Jowitt presents the Baker Medal to Catherine Alexander, Chris Smaje and Ian Williams