

Publications List – Dr Virginia Stovin

July 2007

Refereed Journals – in Print

- Lau S.D., **Stovin V.R.** & Guymer I., 2007, The Prediction of Solute Transport in Surcharged Manholes using CFD. *Water Science and Technology*, Vol. 55, No. 4, 57-64.
- Stovin, V.**, Eccles, S. and O'Reilly, M., 2004, Choosing the right contract: a probabilistic model, *Proceedings of ICE – Civil Engineering*, Vol. 157, May 2004, 86-90.
- Adamsson, Å., **Stovin, V.** and Bergdahl, L., 2003, Bed shear stress boundary condition for storage tank sedimentation, *ASCE Journal of Environmental Engineering*, Vol. 129, No. 7, 651-658.
- Ashley, R.M., Tait, S. J., **Stovin, V.R.**, Burrows, R., Fraser, A., Buxton, A.P., Blackwood, D.J., Saul, A.J. and Blanksby, J.R., 2003, The utilisation of engineered invert traps in the management of near bed solids in sewer networks, *Water Science and Technology*, Vol. 47, No. 4, 137-148.
- Stovin, V.R.**, Grimm, J.P. and Saul, A.J., 2002, Fine sediment retention in storage chambers: an assessment of time-dependent effects, *Water Science and Technology*, Vol. 45, No. 7, 123-132.
- Buxton, A., Tait, S., **Stovin, V.** and Saul, A., 2002, Developments in a methodology for the design of engineered invert traps in combined sewer systems, *Water Science and Technology*, Vol. 45, No. 7, 133-142.
- Sfakianaki, E and **Stovin, V.R.**, 2002, A spatial framework for environmental impact assessment and route optimisation, *Proc. of the Institution of Civil Engineers – Transport*, Vol. 153, Issue 1, 43- 52.
- Stovin, V.R.** and Saul, A.J., 2000, Computational fluid dynamics and the design of sewage storage chambers, *Water and Environmental Management*, Vol. 14, No. 2, 103-110.
- Stovin, V.R.**, Saul, A.J., Drinkwater, A and Clifforde, I, 1999, Field testing CFD-based predictions of storage chamber gross solids separation efficiency, *Water Science and Technology*, Vol. 39, No. 9, 161-168.
- Stovin, V.R.** and Saul, A.J., 1998, A Computational Fluid Dynamics (CFD) particle tracking approach to efficiency prediction, *Water Science and Technology*, Vol. 37, No. 1, 285-293.
- Stovin, V.R.** and Saul, A.J., 1996, Efficiency prediction for storage chambers using computational fluid dynamics, *Water Science and Technology*, Vol. 33, No. 9, 163-170.
- O'Reilly, M.P. and **Stovin, V.R.**, 1996, Trenchless construction: risk assessment and management, *Trenchless Technology Research*, Vol. 1, No. 1, 25-35.
- Stovin, V.R.** and Saul, A.J., 1994, Sedimentation in storage tank structures, *Water Science and Technology*, Vol. 29, No. 1-2, 363-372.
- Brownbill, V.R.**, Jackson, D.H. and Douglas, I., 1992, Contribution of combined sewer overflow-derived sediments to annual particulate load and oxygen demand in the river Roch, England, *Water Science and Technology*, Vol. 25, No. 8, 199-206.

Refereed Conference Papers – in Print/Press

Please note that this list does not include a further 8 conference papers that have subsequently been published in journals.

- Stovin, VR**, Dunnett, N, Hallam, A, Green Roofs – getting sustainable drainage off the ground, 6th International Conference of Sustainable Techniques and Strategies in Urban Water Management (Novatech 2007), Lyon, France, 25-28 June 2007.
- Lau, S.T.D, **Stovin, V.R.** and Guymer, I., 2006, Scaling the solute transport characteristics of a surcharged manhole, 2nd International IWA Conference on Sewer Operation and Maintenance (SOM 2006), 26-28 October 2006 - Vienna, Austria
- Swan, A.D., Moore, S.L., and **Stovin, V.R.**, 2006, The use of retrofit SUDS to achieve urban water quality improvement, 7th International Conference on Urban Drainage Modelling and the 4th International Conference on Water Sensitive Urban Design, 4-6 April 2006, Melbourne, Australia, pp. 381-388. ISBN 0-646-45903-1.

- Stovin, V.**, Jorgensen, A., Clayden, A. and Swan, A., 2005, Urban trees and stormwater management - an undervalued resource?, *Third National Conference on Sustainable Drainage. Incorporating 27th Meeting of Standing Conference on Stormwater Source Control*, 20th - 21st June 2005, Coventry University, 53-64.
- Tait, S., **Stovin, V.**, Ashley, R., Schellart, A. and Burkhard, R., 2005, Sewer Invert Trap Design using Laboratory and CFD models and continuous simulation, *10 International Conference on Urban Drainage*, Copenhagen, Denmark, August 21-26, 2005.
- Singh, R., **Stovin, V.**, Jefferies, C., Morrison, G. and Gillon, S. Developing a planning and design framework for retrofit SUDS, *10 International Conference on Urban Drainage*, Copenhagen, Denmark, August 21-26, 2005.
- Lau, S., **Stovin, V.**, Guymer, I. and Saul, A., 2004, Prediction of storm tank performance using Computational Fluid Dynamics, *4th International Symposium on Environmental Hydraulics and 14th Congress of Asia and Pacific Division, International Association of Hydraulic Engineering and Research*, 15-18 December, 2004, Hong Kong, China.
- Stovin, V.R.** and Swan, A.D., 2003, Application of a retrofit SUDS decision-support framework to a UK catchment, *Second National Conference on Sustainable Drainage*, 23-24 June 2003, Coventry, UK, 171-180.
- Swan, A.D. and **Stovin, V.R.**, 2002, A decision-support framework for the design of retrofit SUDS, *International Conference on Sewer Operation and Maintenance (SOM2002)*, 26-28 November, 2002, Bradford, UK.
- Stovin, V.R.**, Grimm, J.P., Buxton, A.P. and Tait, S.J., 2002, Parametric studies on CFD models of sewerage structures, *9th International Conference on Urban Drainage*, Portland, Oregon, September 2002
- Marion, S., Coggins, C. and **Stovin, V.R.**, 2002, Life cycle assessment and waste management, *Proceedings of ISWA2002 (International Solid Waste Association) World Environment Congress and Exhibition: Appropriate Environmental and Solid Waste Management and Technologies for Developing Countries*, Istanbul, Turkey, 8-12 July, 2002.
- Swan, A.D., **Stovin, V.R.**, Saul, A.J. and Walker, N., 2001, Modelling SUDS with deterministic urban drainage models, *Proceedings of the First National Conference on Sustainable Drainage*, 18-19 June 2001, Coventry University, 202-213.
- Swan, A., **Stovin, V.** and Reeves, M., 1999, Modelling urban drainage BMPs with HydroWorks/InfoWorks, *Proceedings of the UK Wastewater Planning Users Group (WaPUG) Autumn Meeting Conference and Workshop*, Blackpool, 24-26 November 1999.
- Sfakianaki, E and **Stovin, V.R.**, 1998, A spatial framework for environmental impact assessment: the A564 Stoke-Derby link Doveridge bypass, *Proceedings of 'Impact Assessment in the Development Process: Advances in Integrating Environmental Assessment with Economic and Social Appraisal'*, 23-24 October, 1998, The University of Manchester.
- Sfakianaki, E and **Stovin, V.R.**, 1998, Testing a spatial framework for environmental impact assessment: the A564 Stoke-Derby link Doveridge bypass, *Proceedings of the First International Conference on New Information Technologies for Decision Making in Civil Engineering*, October 11-13, 1998, Montréal, Canada.
- Eccles, S., O'Reilly, M. and **Stovin, V.**, 1998, Quantitative evaluation of contract strategies, *Proceedings of the First International Conference on New Information Technologies for Decision Making in Civil Engineering*, October 11-13, 1998, Montréal, Canada.
- Saul, A.J., Gupta, K and **Stovin, V.R.**, 1998, Gross solids characteristics and an event-based CSO efficiency prediction methodology, *Proceedings of the Fourth International Conference on Developments in Urban Drainage Modelling*, 21-24 September 1998, London, UK.
- Kythreoti, S, **Stovin, V.R.** and Pilakoutas, 1998, GIS and earthquake risk assessment — Case study: Cyprus, *Proceedings of the Sixth SECED Conference - Seismic Design Practice into the Next Century*, 26-27 March 1998, University of Oxford, UK.
- Kythreoti, S, Pilakoutas, K. and **Stovin, V.R.**, 1997, The consideration of seismic energy in the reanalysis of Cyprus' earthquake record, *19th Regional Seminar on Earthquake Engineering*, 1-4 December 1997, University of Cairo, Egypt.

- Eccles, S.D., **Stovin, V.R.** and O'Reilly, M.P., 1997, Numerical modelling of contract strategy evaluation, *Proceedings of the 13th Annual ARCOM conference*, Cambridge University, 15-17 September, 1997, 102-111.
- Stovin, V.R.**, O'Reilly, M.P. and Sfakianaki, H., 1996, A spatial framework for Environmental Impact Assessment and Decision Making, *Proceedings of the 12th Annual ARCOM Conference*, Sheffield Hallam University, 11-13 September 1996, 628-637.
- Saul, A.J., **Brownbill, V.R.**, Skipworth, P., Roulston, M. and Lafond, J-M., 1992, Laboratory investigations of shaft-tank efficiency, *Proceedings of Novatech '92*, Lyon.
- Brownbill, V.**, Jackson, D. and Douglas, I., 1992, The impact of sediments released from a combined sewer overflow on the river Roch, *Proceedings of the 5th International Symposium on River Sedimentation*, Karlsruhe, Vol. II, 589-596.

Non-Refereed Abstracts, Reports and other Publications – in Print

- Stovin, V.**, Swan, A. and Moore, S., 2007, Retrofit SUDS for Urban Water Quality Enhancement, Final report to the Environment Agency/BOC Foundation.
- SNIFFER, 2006, Retrofitting Sustainable Urban Water Solutions (Project UE3(05)UW5). The report was produced jointly by SISTECH and the University of Sheffield (**Stovin & Swan**).
- OFWAT, 2005, Independent Review of the Thames Tideway Strategic Study (PROC/01/0021) (led by Jacobs Baktie). The Ashley/**Stovin** review forms appendix 2.3 of the main report.
- Saul, A.J., Blanksby, J.R., Shepherd, W., Guymmer, I, **Stovin, V** and Lau D, 2004, Performance of Storm Tanks and Potential for Improvements in Overall Storm Management, UKWIR Final Report WW22B.
- Tait, S., **Stovin, V.**, Schellart, A. and Ashley, R., 2004, Invert Trap Design and Performance, Final Design Report for Entsorgung and Recycling Zurich (ERZ) – Installation of Invert Trap in Leutschenbach Sewer.
- Contributor to: Ashley, R.M., Bertrand-Krajewski, J-L., Hvitved-Jacobsen, T. and Verbanck, M. (editors), 2004, Solids in Sewers, IWA Scientific and Technical Report No. 14.
- Ashley, R.M., Saul, A.J., Burrows, R., Tait, S.J., **Stovin, V.R.**, Blackwood, D.J., Fraser, A., Buxton, A.P. and Blanksby, J.R., 2001, The utilisation of engineered invert traps in the management of near bed solids in sewer networks. Final report to EPSRC, GR/L88252.
- Stovin, V.R.**, 2000, The development of a simulation strategy for the prediction of sediment deposition in storage chambers. Final report to EPSRC, GR/L79205.
- Stovin, V.R.**, and Tait, S.J., 1999, Flow depths and velocity profiles in Brussels' cunette-shaped sewers, report to Aquafin.
- Stovin, V.R.**, Sims, J and Saul, A.J., 1997, Improved design of detention tanks - Portfolio project P6205, Contract report to WRc plc, Department of Civil and Structural Engineering, The University of Sheffield.
- Stovin, V.R.**, 1996, The prediction of sediment deposition in storage chambers based on laboratory observations and numerical simulation, PhD thesis, Department of Civil and Structural Engineering, University of Sheffield.
- Saul, A.J. and **Stovin, V.R.**, 1995, Cohesive sediment transport in storage tanks, Final report to EPSRC, Grant Ref. GR/H/15837.
- Brownbill, V.R.**, 1992, River sediment quality at Royton, Internal report to the Water Research centre, School of Geography, The University of Manchester.
- Brownbill, V.R.**, 1992, Tank sediment quality at Littleborough, Internal report to the Water Research centre, School of Geography, The University of Manchester.
- Brownbill, V.R.**, Jackson, D.H., Douglas, I. and Crabtree, R.W., 1992, Impact of storm sewage sediments on river quality, NRA R&D Note 92, NRA, Bristol.