

PRG PUBLICATIONS
2005

CONFERENCE PROCEEDINGS :

1. MARIAH, L., BUCKLEY, C.A., JAGANYI, D, DRIOLI, E and CURCIO, E., 'The Development of Sustainable Salt Sinks with the Scope of Producing Value-Added-Products and Re-usable Water : Evaluation of an integrated membrane system for the recovery of magnesium sulphate and sodium chloride from brine streams', 6th Water Institute of Southern Africa-Membrane Technology Division (WISA-MTD) Symposium and Workshop, Protea Hotel Wilderness, South Africa, 13-15 March 2005. (Poster)
2. PILLAY, S., FOXON, K., RODDA, N., SMITH, M., and BUCKLEY, C.A., 'The Use of Effluent from an Anaerobic Baffled Reactor (ABR) for Irrigation in a Peri-Urban Community', Third International Conference on Ecological Sanitation, International Convention Centre, Durban, South Africa, 23-27 May 2005. (Paper)
3. GUNNES, M., RODDA, N., SMITH, M., TROTTER, D., MACLEOD, N., and BUCKLEY, C.A., 'Impact of Buried Urine Diversion Waste on Environmental Quality and Plant Growth', Third International Conference on Ecological Sanitation, International Convention Centre, Durban, South Africa, 23-27 May 2005. (Paper)
4. FOXON, K. and BUCKLEY, C.A., 'The ABR Concept: A Holistic Approach to Managing Wastewater from Low-income Communities and Institutions', Third International Conference on Ecological Sanitation, International Convention Centre, Durban, South Africa, 23-27 May 2005. (Paper)
5. BROUCKAERT, C.J., FOXON, K., RIDGEWAY, T., RODDA, N. And BUCKLEY, C.A., 'A Mathematical Analysis of the Drying of Faeces in a Urine Diversion Toilet - Sensitivity Analysis', Third International Conference on Ecological Sanitation, International Convention Centre, Durban, South Africa, 23-27 May 2005. (Paper)
6. SALUKAZANA, L., RODDA, N., SMITH, M., GOUNDEN, T., MACLEOD, N. And BUCKLEY, C., 'Microbiological Safety of Crops Irrigated with Greywater', Third International Conference on Ecological Sanitation, International Convention Centre, Durban, South Africa, 23-27 May 2005. (Paper)
7. JOUBERT, J.-P., ARJUN, N., RODDA, N., SMITH, M. And BUCKLEY, C., 'Water Use Practices and Point-of-use Water Quality for Users Supplied with Drinking Water by Standpipes or Groundtanks', Third International Conference on Ecological Sanitation, International Convention Centre, Durban, South Africa, 23-27 May 2005. (Poster)
8. ARJUN, N., FOXON, K., SMITH, M., RODDA, N. And BUCKLEY, C.A., 'Characterisation of the Wastewater Produced by a Developing Community', Third International Conference on Ecological Sanitation, International Convention Centre, Durban, South Africa, 23-27 May 2005. (Poster)
9. JOUBERT, J.-P., ARJUN, N., SMITH, M., RODDA, N. And BUCKLEY, C.A., 'Biofilm Formation in Groundtanks Used to Supply Free Basic Drinking Water', Third International Conference on Ecological Sanitation, International Convention Centre, Durban, South Africa, 23-27 May 2005. (Poster)
10. BROUCKAERT, B.M., AMIRTHARAJAH, H., BROUCKAERT, C.J. and AMBURGEY, J.E., 'Predicting the Efficiency of Filter Backwash', American Water Works Association 2005 Annual Conference and Exposition, San Francisco, California, 12-16 June 2005. (Paper)
11. MARIAH, L., BUCKLEY, C., BROUCKAERT, C., RAMJUGERNATH, D, JAGANI, D., CURCIO, E., And DRIOLI, E., 'The Role of Water Activities in Membrane Distillation of Concentrated Brines for Recovery of Crystalline Products from Brine Effluents', IWA/WISA Conference on Management of Residues Emanating from Water and Wastewater Treatment, Sandton Convention Centre, Johannesburg, South Africa, 9-12 August 2005. (ref paper).

12. MBOLEKWA, Z. And BUCKLEY, C., 'The Removal of Reactive Dyes from Dye Liquor Using Activated Carbon for the Reuse of Salts, Water and Energy', IWA/WISA Conference on Management of Residues Emanating from Water and Wastewater Treatment, Sandton Convention Centre, Johannesburg, South Africa, 9-12 August 2005. (ref paper).
13. FOXON, K., REMIGI, E., PILLAY, S., BROUCKAERT, C., RODDA, N., PFAFF, B., SALUKAZANA, L. And BUCKLEY, C.A., 'Management of Sanitation Residues', IWA/WISA Conference on Management of Residues Emanating from Water and Wastewater Treatment, Sandton Convention Centre, Johannesburg, South Africa, 9-12 August 2005. (ref paper)
14. REMIGI, E. And BUCKLEY, C., 'Protocol for the Assessment of the Disposal of Organic Concentration by Co-digestion', IWA/WISA Conference on Management of Residues Emanating from Water and Wastewater Treatment, Sandton Convention Centre, Johannesburg, South Africa, 9-12 August 2005. (ref paper).
15. BARCLAY, S., BUCKLEY, C., FOURE, P., LUNDBO, K., MANAKA, B., 'Cleaner Production in Textile Manufacture - Results of Cleaner Textile Production Project and Results of Activities to Create and Ongoing Awareness and Demand for Textile Products Produced in a More Environmental Responsible Manner', The 2005 FAO/SCORENA International Conference on Textiles for Sustainable Development International Conference, Tsitsikamma Conference Centre, Port Elizabeth, 23-27 October, 2005. (Paper)

PUBLICATIONS :

1. RAMPHAO, C.M., WENTZEL, M.C., MERRITT, R., EKAMA, G.A., YOUNG, T. And BUCKLEY, C.A., 'The Impact of Membrane Solid-liquid Separation on the Design of Biological Nutrient Removal Activated Sludge Systems', *Biotech & Bioeng*, 89 (6), pp 630-646, 2005, ISSN 000 635 92.
2. BIONDI-ZOCCAI, G.G.L., SANGIORGI, G.M., CHIEFFO, A., VITTORI, G., FALCHETTI, E., MARGHERI, M., BARBAGALLO, R., TAMBURINO, C., REMIGI, E., BRIGUORI, C., IAKOVOU, I., AGOSTONI, P., TSAGALOU, E., MELZI, G., MICHEV, I., AIROLDI, F., MONTORFANO, M., CARLINO, M. And COLOMBO, A., 'Validation of Predictors of Intraprocedural Stent Thrombosis in the Drug-eluting Stent Era', *The American Journal of Cardiology*, 95(12), pp. 1466-1468, 15 June 2005, PMID:15950573
3. GREGORY, M.A., BROUCKAERT C.J. And MCCLURG, T.P., 'The Use of Energy-Dispersive X-Ray Microanalysis as a Rapid Method for Demarcating Areas Around Marine Outfalls that May be Influenced by Effluent: A Case Study', *Spectroscopy Letters*, 38 (3), pp 213-227, ISSN Print 0038-701, Editor: Robert G. Michel, 2005.
4. LALBAHADUR, T., PILLAY, S., RODDA, N., SMITH, M., BUCKLEY, C., HOLDER, F., BUX, F. And FOXON, K., 'Microbiological Studies of an Anaerobic Baffled Reactor : Microbial Community Characterisation Deactivation of Health-related Indicator Bacteria', *Water Science and Technology*, **10** (51), pp. 155-162, 2005, ISSN 02731223.
5. ARJUN, N., JOUBERT, J.-P., SMITH, M., RODDA, N., And BUCKLEY, C.A., 'Water Quality at Point for Users Supplied by Standpipes and Groundtanks in a Peri-urban Community', *Water and Environmental Management Series, Water and Wastewater Management for Developing Countries, selected proceedings of WAMDEC 2004 Conference, Victoria Falls, Zimbabwe*, edited by Dr K Mathew & Dr I Nhapi, IWA publishers, pp. 151-161, ISBN 1-84339-511-8, 2005.
6. TOLON, L., SMITH, M., RODDA, N., FOXON, K. And BUCKLEY, C.A., 'Effect of Industrial Effluents on Nitrification in Activated Sludge', *Water and Environmental Management Series, Water and Wastewater Management for Developing Countries, selected proceedings of WAMDEC 2004 Conference, Victoria Falls, Zimbabwe*, edited by Dr K Mathew & Dr I Nhapi, IWA publishers, pp. 315-328, ISBN 1-84339-511-8, 2005.
7. PILLAY, S., FOXON, K., SMITH, M., RODDA, N. And BUCKLEY, C.A., 'Treatment Performance and Effluent Quality from an Anaerobic Baffled Reactor Treating Domestic Wastewaters : Implications for Water Reuse', *Water and Environmental Management Series, Water and Wastewater Management for Developing Countries, selected proceedings of WAMDEC 2004 Conference, Victoria Falls, Zimbabwe*, edited by Dr K Mathew & Dr I Nhapi, IWA publishers, pp. 315-328, ISBN 1-84339-511-8, 2005.

Falls, Zimbabwe, edited by Dr K Mathew & Dr I Nhapi, IWA publishers, pp. 423-435, ISBN 1-84339-511-8, 2005.

8. BAILEY, R.* And BUCKLEY, C.A., 'Modelling Domestic Water Tariffs', Water and Environmental Management Series, Water and Wastewater Management for Developing Countries, selected proceedings of WAMDEC 2004 Conference, Victoria Falls, Zimbabwe, edited by Dr K Mathew & Dr I Nhapi, IWA publishers, pp. 459-475, ISBN 1-84339-511-8, 2005.
9. RIDGWAY, T., BURNETT, H., BROUCKAERT, C.J., HARRISON, J.* And BUCKLEY, C.A., 'A Mathematical Analysis of the Drying of Faeces in a Urine Diversion Toilet', Water and Environmental Management Series, Water and Wastewater Management for Developing Countries, selected proceedings of WAMDEC 2004 Conference, Victoria Falls, Zimbabwe, edited by Dr K Mathew & Dr I Nhapi, IWA publishers, pp. 577-587, ISBN 1-84339-511-8, 2005.
10. MOMBA, M.N.B., MAKALA, N., TYAFA, A. And BROUCKAERT, B.M., 'A Model Partnership for Sustainable Production of Safe Drinking Water for Rural Communities in South Africa : Research in Action', South African Journal of Science, Vol 101 (7 & 8), pp. 335-336, ISSN 00382353, July/August 2005.
11. BIONDI-ZOCCAI, G.G.L., AGOSTONI, P., SANGIORGI, G.M., AIROLDI, F., COSGRAVE, J., CHIEFFO, A., BARBAGALLO, R., TAMBURINO, C., VITTORI, G., FALCHETTI, E., MARGHERI, M., BRIGUORI, C., REMIGI, E., IAKOVOU, I., And COLOMBO, A., ' Incidence, Predictors, and Outcomes of Coronary Dissections Left Untreated After Drug-eluting Stent Implantation', European Heart Journal, Vol. 10 (1093), pp. 1-7, November 2005.
12. AMBURGEY, J., AMIRTHARAJAH, A, YORK, M., BROUCKAERT, B.M., SPIVEY, N.C. A And ARROWOOD, M.J., 'Comparison of Conventional and Biological Filter Performance for Cryptosporidium and Microsphere Removal', Journal of American Water Works Association, 97(12), pp 77-91, December 2005.

BOOKS & CHAPTERS IN BOOK :

1. BROUCKAERT, C.J., HUANG, T and BUCKLEY, C.A., 'Applications of Computational Fluid Dynamics Modelling in Water Treatment', Water Research Commission Report No. 1075/1/05, March 2005, pps. 76, ISBN 1-77005-271-2.