

PRG PUBLICATIONS LIST: 2006

Conference Proceedings:

1. BROUCKAERT, B.M., AMIRTHARAJAH, A., BROUCKAERT, C.J. And AMBURGEY, J.E., 'Predicting the Efficiency of Deposit Removal During Filter Backwash', Proceedings of the Conference (WISA2006), the Water Institute of Southern Africa Biennial Conference & Exhibition, International Conference Centre, Durban, South Africa, 21-23 May 2006, pp 1-12. (Paper)
2. REMIGI, E., DLAMINI, S. And BUCKLEY, C., 'Verification of a Protocol for the Assessment of the Disposal of Industrial Organics Waste by Codigestion', Proceedings of the Conference (WISA2006), the Water Institute of Southern Africa, Biennial Conference & Exhibition, International Conference Centre, Durban, South Africa, 21-23 May 2006, pp 1-11. (Paper)
3. SALUKAZANA, L, JACKSON, S, RODDA, N., SMITH, M., GOUNDEN, T., MACLEOD, N. And BUCKLEY, C., 'Reuse of Greywater for Agricultural Irrigation', Proceedings of the Conference (WISA2006), the Water Institute of Southern Africa Biennial Conference & Exhibition, International Conference Centre, Durban, South Africa, 21-23 May 2006, pp 1-9. (Paper)
4. FOXON, K., NAIDOO, S.A., BROUCKAERT, C.J., HARRISON, J., PFAFF, B., REMIGI, E., RODDA, N., And BUCKLEY, C., 'Can VIP Additives Make a Difference?', Proceedings of the Conference (WISA2006), the Water Institute of Southern Africa Biennial Conference & Exhibition, International Conference Centre, Durban, South Africa, 21-23 May 2006, pp 1-11. (Paper)
5. PILLAY, S., FRIEDRICH, E. and BUCKLEY, C., 'LCA Studies of Water Delivery Systems', Proceedings of the Conference (WISA2006), the Water Institute of Southern Africa Biennial Conference & Exhibition, International Conference Centre, Durban, South Africa, 21-23 May 2006, pp 1-14. (Paper)
6. MARAJ, S., RODDA, N., JACKSON, S., BUCKLEY, C. And MACLEOD, N., 'Microbial Deterioration of Stored Water for Users Supplied by Standpipes and Ground Tanks in a Peri-urban Community', Proceedings of the Conference (WISA2006), the Water Institute of Southern Africa Biennial Conference & Exhibition, International Conference Centre, Durban, South Africa, 21-23 May 2006, pp 1-12. (Paper)
7. ARJUN, N., FOXON, K., RODDA, N., SMITH, M. And BUCKLEY, C., 'Characterisation of the Wastewater Produced by Developing Community', Proceedings of the Conference (WISA2006), the Water Institute of Southern Africa Biennial Conference & Exhibition, International Conference Centre, Durban, South Africa, 21-23 May 2006, pp 1-11. (Paper)
8. RODDA, N., PFAFF, B., GOUNDEN, T. And BUCKLEY, C., 'Health Risk Assessment of the Operation and Maintenance of a Urine Diversion Toilet', Proceedings of the Conference (WISA2006), the Water Institute of Southern Africa Biennial Conference & Exhibition, International Conference Centre, Durban, South Africa, 21-23 May 2006, pp 1-11. (Paper)
9. GUNESS, M., PILLAY, S., RODDA, N., SMITH, M., BUCKLEY, C. And MACLEOD, N., 'Quality of Leachate from Buried Urine Diversion Toilet Waste', Proceedings of the Conference (WISA2006), the Water Institute of Southern Africa Biennial Conference & Exhibition, International Conference Centre, Durban, South Africa, 21-23 May 2006, pp 1-10 (Paper)
10. STARZAK, D., RODDA, N., SMITH, M., JACKSON, S. And BUCKLEY, C., 'Evaluation of the Potential Use of Urine as a Nutrient Source in Urban Agriculture', Proceedings of the Conference (WISA2006), the Water Institute of Southern Africa Biennial Conference &

- Exhibition, International Conference Centre, Durban, South Africa, 21-23 May 2006, pp 1-15. (Paper)
11. MARIAH, L., BUCKLEY, C.A., BROUCKAERT, C.J., JAGANYI, D., CURCIO, E. And DRIOLI, E., 'Membrane Distillation for the Recovery of Crystalline Products from Concentrated Brines', Proceedings of the Conference (WISA2006), the Water Institute of Southern Africa Biennial Conference & Exhibition, International Conference Centre, Durban, South Africa, 21-23 May 2006, pp 1-11. (Paper)
 12. PILLAY, S., FOXON, K., RODDA, N., SMITH, M.T. And BUCKLEY, C.A., 'Microbiological Studies of an Anaerobic Baffled Reactor (ABR)', Proceedings of the Conference (WISA2006), the Water Institute of Southern Africa Biennial Conference & Exhibition, International Conference Centre, Durban, South Africa, 21-23 May 2006, pp 1-11. (Paper)
 13. FOXON, K.M. And BUCKLEY, C.A., 'Guidelines for the Implementation of Anaerobic Baffled Reactors for On-site or Decentralised Sanitation', Proceedings of the Conference (WISA2006), the Water Institute of Southern Africa Biennial Conference & Exhibition, International Conference Centre, Durban, South Africa, 21-23 May 2006, pp 1-12. (Paper)
 14. HAWKSWORTH, D., ARCHER, C., RODDA, N., SMITH, M, APPLETON, C. And BUCKLEY, C.A., 'An Improved Method for the Recovery of Ascaris Ova from Solid Waste from Urine Diversion Toilets', Proceedings of the Conference (WISA2006), the Water Institute of Southern Africa Biennial Conference & Exhibition, International Conference Centre, Durban, South Africa, 21-23 May 2006, pp 1-12. (Paper)
 15. JACKSON, S., RODDA, N. And SALUKAZANA, L, 'Microbiological Assessment of Food Crops Irrigated with Domestic Greywater', Proceedings of the Conference (WISA2006), the Water Institute of Southern Africa Biennial Conference & Exhibition, International Conference Centre, Durban, South Africa, 21-23 May 2006, pp 1-8. (Paper)
 16. MOMBA, M.N.B., TYAFA, Z., MAKALA, N., BROUCKAERT, B.M. And OBI, C.L., 'Safe Drinking Water Still a Dream in Rural Areas of South Africa. Case Study : The Eastern Cape Province', Proceedings of the Conference (WISA2006), the Water Institute of Southern Africa Biennial Conference & Exhibition, International Conference Centre, Durban, South Africa, 21-23 May 2006, pp 1-11. (Paper)
 17. BAKKEN, T., SAEGROV, S., PIETERSEN, S. And BROUCKAERT, C., 'Computer Aided Rehabilitation of Water Networks in An Area Including Informal Settlements', Proceedings of the Conference (WISA2006), the Water Institute of Southern Africa Biennial Conference & Exhibition, International Conference Centre, Durban, South Africa, 21-23 May 2006, pp 1-20. (Paper)
 18. NWANERI, C., MKHIZE, S., FOXON, K., RODDA, N. And BUCKLEY, C., 'Application of a Protocol for the Characterisation of the Contents of a Urine Diversion Toilet Vault', Proceedings of the Conference (WISA2006), the Water Institute of Southern Africa Biennial Conference & Exhibition, International Conference Centre, Durban, South Africa, 21-23 May 2006, pp 1-8. (Poster)
 19. JOHN, W. And MBATHA, T., 'Analysis of Polychlorinated Biphenyls by GC ECD', Proceedings of the Conference (WISA2006), the Water Institute of Southern Africa Biennial Conference & Exhibition, International Conference Centre, Durban, South Africa, 21-23 May 2006, pp 1-10. (Poster)
 20. JOHN, W., BUCKLEY, C., JACOBS, E.P. And SANDERSON, R.D., 'Analysis of PolyDADMAC by Off-line Membrane Filtration GPC', Proceedings of the Conference (WISA2006), the Water Institute of Southern Africa Biennial Conference & Exhibition, International Conference Centre, Durban, South Africa, 21-23 May 2006, pp 1-10. (Poster)
 21. PILLAY, M., FRIEDRICH, E. And BUCKLEY, C., 'Environmental Life Cycle Assessment of Water and Effluent Management in the Mining Industry', Proceedings of the Conference

- (WISA2006), the Water Institute of Southern Africa Biennial Conference & Exhibition, International Conference Centre, Durban, South Africa, 21-23 May 2006, pp 1-6. (Poster)
22. MBOLEKWA, Z. And BUCKLEY, C., 'Dye Removal with Activated Carbon for the Reuse of Salt, Water and Energy', Proceedings of the Conference (WISA2006), the Water Institute of Southern Africa Biennial Conference & Exhibition, International Conference Centre, Durban, South Africa, 21-23 May 2006, pp 1-12. (Poster)
 23. HUANG, T., BROUCKAERT, C.J. And BUCKLEY, C.A., 'Experimental Determination of Ozone Kinetics Rate Constant in Raw Water for Ozonation Modelling', Proceedings of the Conference (WISA2006), the Water Institute of Southern Africa Biennial Conference & Exhibition, International Conference Centre, Durban, South Africa, 21-23 May 2006, pp 1-9. (Poster)
 24. BROUCKAERT, B., AMIRTHARAJAH, A., RAJAGOPAL, R. And THOMPSON, P., 'Filter Backwash Options for Rural Treatment Plants', Proceedings of the Conference (WISA2006), the Water Institute of Southern Africa Biennial Conference & Exhibition, International Conference Centre, Durban, South Africa, 21-23 May 2006, pp 1-12. (Poster)
 25. REMIGI, E., BINDA, M., BUCKLEY, C., BARCLAY, S. and FOURE, P., 'A Database Application for the Efficient Management of Score System Related Information', Proceedings of the Conference (WISA2006), the Water Institute of Southern Africa Biennial Conference & Exhibition, International Conference Centre, Durban, South Africa, 21-23 May 2006, pp 1-8. (Poster)
 26. BROUCKAERT, C.J., EKAMA, G., VANDENBERGHE, V., BORSANYI, P., BENEDETTI, L., 'Modelling of Wastewater', Proceedings of the Conference (WISA2006), the Water Institute of Southern Africa Biennial Conference & Exhibition, International Conference Centre, Durban, South Africa, 20 May 2006. (1 day Workshop)
 27. BROUCKAERT, C.J., RAJKUMAR, S. And BUCKLEY, C.A., 'Modelling of Sulphate Reduction by Anaerobic Digestion for Mine Water Treatment – The Rhodes Biosure Process', Proceedings of the South African Chemical Engineering Congress, Durban International Convention Centre, Durban, South Africa, pp 1-13, 20-22 September 2006 (Paper)
 28. MARIAH, L., BUCKLEY, C.A., NAIDOO, P., BROUCKAERT, C.J., RAMJUGERNATH, D., CURCIO, E., DRIOLI, E. AND JAGANYI, D., 'Thermodynamic Modelling of Vapour Pressures During the Membrane Distillation and Crystallisation of Concentrated Mixed Brines', Proceedings of the South African Chemical Engineering Congress, Durban International Convention Centre, Durban, South Africa, pp 1-15, 20-22 September 2006. (Poster)
 29. HUANG, T.H., BROUCAKERT, C.J. And BUCKLEY, C.A., 'Lumped Parameter Kinetics Study in the Raw Water For Ozonation Modelling', Proceedings of the South African Chemical Engineering Congress, Durban International Convention Centre, Durban, South Africa, pp 1-8, 20-22 September 2006 (Poster)
 30. MBOLEKWA, Z. And BUCKLEY, C.A., 'Dye Removal with Activated Carbon For Reuse of Salt, Water and Energy' Proceedings of the South African Chemical Engineering Congress, Durban International Convention Centre, Durban, South Africa, pp 1-12, 20-22 September 2006, (Poster)
 31. RODDA, N., CARDEN, K., ARMITAGE, N., BUCKLEY, C., MURPHY, K., DU PLESSIS, M., 'Developing Guidelines for Greywater Reuse for Small-scale Agriculture in South Africa', International Workshop on: Environmental Consequences of Irrigation with Poor Quality Waters, Kuala Lumpur, Malaysia, 14 September 2006 (Paper)
 32. GOUNDEN, T., PFAFF, B., MACLEOD, N. And BUCKLEY, C.A, 'Provision of Fee Sustainable Basic Sanitation: The Durban Experience', 32nd WEDC International Conference on Sustainable Development of Water Resources, Water Supply and Environmental Sanitation', Colombo, Sri Lanka, 13-17 November 2006, pp 1-4. (Paper)

Journal Publications:

1. BIONDI-ZOCCAI, G.G.L., LOTRIONTE, M., ABBATE, A., TESTA, L., REMIGI, E., BURZOTTA, F., VALGIMIGLI, M., ROMAGNOLI, E., CREA, F. And AGOSTONI, P., 'Compliance with QUOROM and quality of reporting of Overlapping Meta-analyses on the Role of Acetylcysteine in the Prevention of Contrast Associated Nephropathy : A Case Study', *British Medical Journal*, pp. 1-8, doi:10.1136/bmj.38693.516782.7C, 16 January 2006.
2. MAJOZI, T., BROUCKAERT, C.J. And BUCKLEY, C.A., 'A Graphical Technique for Wastewater Minimisation in Batch Processes', *Journal of Environmental Management*, 78, pp. 317-329, doi:10.1016/j.jenvman.2005.04.026, 2006.
3. MARIAH, L., BUCKLEY, C.A., BROUCKAERT, C.J., CURCIO, E., DRIOLI, D., JAGANYI, D. AND RAMJUGERNATH, D., 'Membrane Distillation of Concentrated Brines-Role of Water Activities in the Evaluation of Driving Force', *Journal of Membrane Science*, 280 (1-2), pp 937-947, September 2006, doi:10.1016/j.memsci.2006.03.014 .
4. TELUKDARIE, A., BUCKLEY, C. And KOEFOED, 'The Importance of Assessment Tools in Promoting Cleaner Production in the Metal Finishing Industry', *Journal of Cleaner Production*, 14(18), pp. 1612-1621, doi:10.1016/j.jclepro.2005.11.009, 2006.
5. TELUKDARIE, A., BROUCKAERT, HUANG, Y., 'A Case Study of Artificial Intelligence Based Cleaner Production Evaluation System for Surface Treatment Facilities', *Journal of Cleaner Production*, 14(18), pp 1622-1634, doi:10.1016/j.jclepro.2006.01.007, 2006.
6. MARAJ, S., RODDA, N., JACKSON, S., BUCKLEY, C.A. And MACLEOD, N., 'Microbial Deterioration of Stored Water for Users Supplied by Stand-pipes and Ground-tanks in a Peri-urba Community' *WaterSA*, Vol 32 (5) Special Edition, ISBN 0378-4738, pp 693-699, 2006. (G/res/papers reports and theses/papers/Paper 2006/rodda n, microbial det of stored water, water sa, v 32(5), special edit 2006, pp 693-699.pdf
7. JACKSON, S., RODDA, N. And SALUKAZANA, 'Microbiological Assessment of Food Crops Irrigated with Domestic Greywater', *WaterSA*, Vol 32 (5) Special Edition, ISBN 0378-4738, pp 700-704, 2006.
8. BROUCKAERT, B.M., AMIRTHARAJAH, A., BROUCKAERT, C.J. And AMBURGEY, J.E., 'Predicting the Efficiency of Deposit Removal During Filter Backwash', *WaterSA*, Vol 32 (5) Special Edition, ISBN 0378-4738, pp 633-640, 2006.
9. MOMBA, M.N.B., TYAFA, Z., MAKALA, N., BROUCKAERT, B.M. And OBI, C.L., 'Safe Drinking Water Still a Dream in Rural Areas of South Africa. Case Study: The Eastern Cape Province', *WaterSA*, Vol 32 (5) Special Edition, ISBN 0378-4738, pp 715-720, 2006.

Reports & books and chapters of books:

1. MULHOLLAND, M., BROUCKAERT, C.J., PASTRE, A., BISCOS, C. And BUCKLEY, C.A., 'The Application of Advanced Control Techniques in Water Treatment and Supply Systems', *Water Research Commission Report No. 1387/1/06*, pp. 1-76, 2006, ISBN 1-77005-386-7.
2. FOXON, K., BUCKLEY, C.A., BROUCKAERT, C.J., DAMA, P., MTEMBU, Z., RODDA, N., SMITH, M., PILLAY, S., ARJUN, N., LALBAHADUR, T. And BUX, F., 'The Evaluation of the Anaerobic Baffled Reactor for Sanitation in Dense Peri-Urban Settlements' *Water Research Commission Project Report No. 1248/1/06*, pp. 1-224, February 2006, ISBN 1-77005-371-9.

3. REMIGI, E.U. And BUCKLEY, C.A., 'Co-Digestion of High Strength/Toxic Organic Effluents in Anaerobic Digesters at Wastewater Treatment Works', Water Research Commission Project Report No. 1074/1/06, pps 389, June 2006, ISBN 1-77005-30-8.
4. BARCLAY, S.J. And BUCKLEY, C.A., 'Application of Waste Minimisation Clubs in South Africa: Results from Pilot Studies', Water Research Commission Project Report No. TT161/05, pps 233, March 2006, ISBN 1-86845-831-8.

Theses:

1. MR MTEMBU, D.Z., 'The Anaerobic Baffled Reactor for Sanitation in Dense Peri-urban Settlements', Thesis MScEng, pps 152, 2006.
2. MS MANSFIELD, M., 'The Use of Water Pinch Analysis to Determine Optimum Effluent Treatment Conditions for an Integrated Pulp and Paper Mill', Thesis MScEng, 2006.
3. MR MACDONALD, C., 'Water Usage in the South African Pulp and Paper Industry' Thesis MScEng, 2006.
4. MS HUANG, T-H., 'An Integrated Computational Fluid Dynamics and Kinetics Study of Ozonation in Water Treatment', Thesis PhD, 2006, pps 179.
5. MS MARIAH, L., 'Membrane Distillation of Concentrated Brines', Thesis PhD, 2006, pps 210.