

INDIVIDUAL PUBLICATIONS FOR PROF CA BUCKLEY

FOR PERIOD 2001 TO March 2006

Conference Proceedings :

1. WYNNE, G., MAHARAJ, D. and **BUCKLEY, C.A.**, 'Cleaner Production in the Textile Industry - Lessons from the Danish Experience', NATCON 2001, Holiday Inn Elangeni. Durban, South Africa, 29-30 March 2001. (Paper)
2. BROUCKAERT, C.J. HANEKOM, D., WOODHOUSE, C. and **BUCKLEY, C.A.**, 'Optimal Location of a Membrane Plant in a Power Station', Eskom International Conference on Power Plant Chemistry and Water Treatment, Eskom Conference Centre, Midrand, South Africa, 3-5 April 2001. (Paper)
3. **BUCKLEY, C.A.**, BROUCKAERT, C.J. and GIANADDA, P., 'Water Pinch Analysis : Minimisation of Water and Wastewater in the Process Industry', European Commission COST 624 (European Co-operation in the Field of Scientific and Technical Research) "Optimal Management of Wastewater Systems", Working Group No. 5 Treatment Scenarios, Bologna, Italy, 26-27 April 2001. (Paper)
4. BELL, J., DAMA, P., GOVENDER, K.M., **BUCKLEY, C.A.** and STUCKEY, D.C., 'Performance Characterisation and Microbial Populations Associated with the Start-up of a Laboratory-scale and a Pilot-scale Anaerobic Baffled Reactor', Part 2 : Proceedings of the 9th World Congress on Anaerobic Digestion 2001, Antwerpen, Belgium, pp. 389-392, 2-5 September 2001. (Poster)
5. NAIDOO, V., DU PREEZ, M., NDIMANDE, S., ODHAV, B. and **BUCKLEY, C.A.**, 'Evaluation Protocol for High Strength/Toxic Organic Liquid Industrial Effluents Discharged to Anaerobic Digesters at Wastewater Treatment Plants', Part 2 : Proceedings of the 9th World Congress on Anaerobic Digestion 2001, Antwerpen, Belgium, pp. 289-293, 2-5 September 2001. (Poster)
6. DAMA, P., BELL, J., FOXON, K., NAIDOO, V., BROUCKAERT, C.J., **BUCKLEY, C.A.** and STUCKEY, D., 'The Anaerobic Baffled Reactor for the Treatment of Domestic Wastewater in Dense Peri-urban Communities', Part 2 : Proceedings of the 9th World Congress on Anaerobic Digestion 2001, Antwerpen, Belgium, 385-388, 2-5 September 2001. (Poster)
7. DAMA, P., GOVENDER, K., HUANG, J., FOXON, K., BELL, J., BROUCKAERT, C.J., **BUCKLEY, C.A.**, NAIDOO, V. and STUCKEY, D., 'Flow Patterns in an Anaerobic Baffled Reactor', Part 1 : Proceedings of the 9th World Congress on Anaerobic Digestion 2001, Antwerpen, Belgium, 793-798, 2-5 September 2001. (Paper)
8. FRIEDRICH, E. and **BUCKLEY, C.A.**, 'Life-Cycle Assessment as an Environmental Assessment Tool - A South African Case Study for the Production of Potable Water', Proceedings, International Association for Impact Assessment (IAIASa) on Sustainable Relationships for a Sustainable Environment, Greenway Woods Country Estate, White River, Mpumalanga, South Africa, pp. 137-140, 8-10 October 2001. (Paper)
9. NAIDOO, V., DU PREEZ, M., RAKGOTHO, T., ODHAV, B. and **BUCKLEY, C.A.**, 'Toxicity and Biodegradability of High Strength/Toxic Organic Liquid Industrial Effluents and Hazardous Landfill Leachates', Proceedings Volume 1, The International Water Association Conference on Water and Wastewater Management for Developing Countries, Putra World Trade Centre, Kuala Lumpur, Malaysia, pp. 204-212, 29-31 October 2001. (Paper)
10. HUANG, T-H., BROUCKAERT, C.J., DOCRAT, M., PRYOR, M. and **BUCKLEY, C.A.**, 'A Computational Fluid Dynamics and Experimental Study of an Ozone Contactor', Proceedings Volume 1, The International Water Association Conference on Water and Wastewater Management for Developing Countries, Putra World Trade Centre, Kuala Lumpur, Malaysia, pp. 498-507, 29-31 October 2001. (Paper)

11. FRIEDRICH, E. and **BUCKLEY, CA.**, 'Life Cycle Assessment as an Environmental Management Tool in the Production of Potable Water', Proceedings Volume 2, The International Water Association Conference on Water and Wastewater Management for Developing Countries, Putra World Trade Centre, Kuala Lumpur, Malaysia, pp. 185-194, 29-31 October 2001. (Paper)
12. GIANADDA, P., BROUCKAERT, C.J., SAYER, R. and **BUCKLEY, C.A.**, 'The Application of Pinch Analysis to Water, Regent and Effluent Management in a Chlor-Alkali Facility', Proceedings Volume 1, The International Water Association Conference on Water and Wastewater Management for Developing Countries, Putra World Trade Centre, Kuala Lumpur, Malaysia, pp. 743-753, 29-31 October 2001. (Paper)
13. FOXON, K.M., BROUCKAERT, C.J., **BUCKLEY, C.A.** and ROZZI, A, ' Denitrification Activity Measurements Using An Anoxic Titration (pHstat) Bioassay', Proceedings Volume 1, The International Water Association Conference on Water and Wastewater Management for Developing Countries, Putra World Trade Centre, Kuala Lumpur, Malaysia, pp. 277-285, 29-31 October 2001. (Paper)
14. FOXON, K.M., DAMA, P., BROUCKAERT, C.J. and **BUCKLEY, C.A.**, 'Design Considerations for the Implementation of an Anaerobic Baffled Reactor in Low-income Settlements in Kwa-Zulu Natal', Proceedings Volume 1, The International Water Association Conference on Water and Wastewater Management for Developing Countries, Putra World Trade Centre, Kuala Lumpur, Malaysia, pp. 644-655, 29-31 October 2001. (Paper)
15. DAMA, P., BELL, J., FOXON, K.M, BROUCKAERT, C.J., HUANG, T., **BUCKLEY, C.A.**, NAIDOO, V., and STUCKEY, D., 'Pilot-scale Study of an Anaerobic Baffled Reactor for the Treatment of Domestic Wastewater', Proceedings Volume 1, The International Water Association Conference on Water and Wastewater Management for Developing Countries, Putra World Trade Centre, Putra World Trade Centre, Kuala Lumpur, Malaysia, pp. 656-664, 29-31 October 2001. (Paper)
16. BARCLAY, S.J. and **BUCKLEY, C.A.**, 'Promoting Sustainable Industry Through Waste Minimization Club', Proceedings Volume 1, The International Water Association Conference on Water and Wastewater Management for Developing Countries, Putra World Trade Centre, Kuala Lumpur, Malaysia, pp. 93-103, 29-31 October 2001. (Paper)
17. BISCOS, C., MULHOLLAND, M., LE LANN, M-V., **BUCKLEY, C.A.**, BROUCKAERT, C.J., BAILEY, R. and ROUSTAN, M., 'Optimal Operation of a Potable Water Distribution Network', Proceedings Volume 1, The International Water Association Conference on Water and Wastewater Management for Developing Countries, Putra World Trade Centre, Kuala Lumpur, Malaysia, pp. 72-83, 29-31 October 2001. (Paper)
18. SOUKOP, M.B., PRESTON-WHYTE, R.A., BARCLAY S.J. and **BUCKLEY, C.A.**, 'Pathways of Change in the Management of Waste Minimisation', Proceedings Volume 1, The International Water Association Conference on Water and Wastewater Management for Developing Countries, Putra World Trade Centre, Kuala Lumpur, Malaysia, pp. 736-742, 29-31 October 2001. (Paper)
19. PASTRE, A., MULHOLLAND, M., BROUCKAERT, C.J., **BUCKLEY, C.A.**, LE LANN, M-V, ROUSTAN, M., NAIDOO, D. And MABEER, V., 'Modelling and Control of Potable Water Chlorination', Proceedings Volume 1, The International Water Association Conference on Water and Wastewater Management for Developing Countries, Putra World Trade Centre, Kuala Lumpur, Malaysia, pp. 237-248, 29-31 October 2001. (Paper)
20. **BUCKLEY, C.A.**, and KOEFOED, M., 'Environmental Instruments in Technology Transfer : A Case Study from South African Metal Finishing Industry', Proceedings Volume 2, The International Water Association Conference on Water and Wastewater Management for Developing Countries, Putra World Trade Centre, Kuala Lumpur, Malaysia, pp. 19-29, 29-31 October 2001. (Paper)

21. JOHN, W., **BUCKLEY, C.A.**, JACOBS, E.P. And SANDERSON, R.D., 'Structure and Properties of polyDADMAC for Water Purification', 5th Annual UNESCO School & IUPAC Conference on Macromolecules & Materials Science, University of Stellenbosch, Chemistry Department, Polymer Science Division, Stellenbosch, South Africa, 29th January to 6 February 2002. (Poster)
22. BARCLAY, S.J. and **BUCKLEY, C.A.**, 'Establishing and Managing Waste Minimisation Clubs in South Africa', Water Institute of Southern Africa (WISA), Biennial Conference & Exhibition, ICC, Durban, South Africa, 19-23 May 2002. (Paper)
23. PILLAY, S.D., FRIEDRICH, E. and **BUCKLEY, C.A.**, 'Life Cycle Assessment of an Industrial Water Recycling Plant', Proceedings Volume 1, The International Water Association Conference on Water and Wastewater Management for Developing Countries, Putra World Trade Centre, Kuala Lumpur, Malaysia, pp. 104-110, 29-31 October 2001. (Paper)
24. BISCOS, C., MULHOLLAND, M., LE LANN, M.-V., **BUCKLEY, C.A.**, BROUCKAERT, C.J. and ROUSTAN, M., 'Water Distribution Network Optimisation', Water Institute of Southern Africa (WISA), Biennial Conference & Exhibition, ICC, Durban, South Africa, 19-23 May 2002. (Paper)
25. RAMSAMY, D., NAIDOO, V. and **BUCKLEY, C.A.**, 'Anaerobic Co-digestion of High Strength / Toxic Organic Liquid Effluents in a Continuously Stirred Reactor : Start-up', Water Institute of Southern Africa (WISA), Biennial Conference & Exhibition, ICC, Durban, South Africa, 19-23 May 2002. (Paper)
26. FOXON, K.M., **BUCKLEY, C.A.** and ROZZI, A., Denitrifying Activity Measurements Using an Anoxic Titration (pHstat) Bioassay', Water Institute of Southern Africa (WISA), Biennial Conference & Exhibition, ICC, Durban, South Africa, 19-23 May 2002. (Paper)
27. NAIDOO, D., NAIDOO, V. and **BUCKLEY, C.A.**, 'Determination of Toxicity of Industrial Effluents Using the Anita-Maia Titration Biosensor', Water Institute of Southern Africa (WISA), Biennial Conference & Exhibition, ICC, Durban, South Africa, 19-23 May 2002. (Paper)
28. NAIDOO, V., RAKGOTHO, T., DU PREEZ, M., OHDAV, B. and **BUCKLEY, C.A.**, 'Anaerobic Toxicity of Various High Strength / Toxic Organic Liquid Industrial Effluents', Water Institute of Southern Africa (WISA), Biennial Conference & Exhibition, ICC, Durban, South Africa, 19-23 May 2002. (Paper)
29. GIANADDA, P., BROUCKAERT, C.J., SAYER, R. and **BUCKLEY, C.A.**, 'Process Water Pinch Analysis Guides Water, Reagent and Effluent Management - Selected Case Studies from the Chlor-alkali Industry', Water Institute of Southern Africa (WISA), Biennial Conference & Exhibition, ICC, Durban, South Africa, 19-23 May 2002. (Paper)
30. SOUKOP, M.B., PRESTON-WHYTE, R.A., BARCLAY, S.J. and **BUCKLEY, C.A.**, 'Pathways of Change in the Management of Waste Minimisation', Water Institute of Southern Africa (WISA), Biennial Conference & Exhibition, ICC, Durban, South Africa, 19-23 May 2002. (Poster)
31. PILLAY, S.D., FRIEDRICH, E. and **BUCKLEY, C.A.**, 'Life Cycle Assessment of a Water Recycling Plant', Water Institute of Southern Africa (WISA), Biennial Conference & Exhibition, ICC, Durban, South Africa, 19-23 May 2002. (Poster)
32. VORENBERG, D., RAMJUGERNATH, D. and **BUCKLEY, C.A.**, 'Use of Overall Persistence and Fugacity Settling Time in Identification and Assessment of Water Impact Potential of Organic Chemicals', Water Institute of Southern Africa (WISA), Biennial Conference & Exhibition, ICC, Durban, South Africa, 19-23 May 2002. (Poster)
33. DAMA, P., BELL, J., FOXON, K.M. and **BUCKLEY, C.A.**, 'The Anaerobic Baffled Reactor for Sanitation in Dense Peri-urban Settlements', Water Institute of Southern Africa (WISA), Biennial Conference & Exhibition, ICC, Durban, South Africa, 19-23 May 2002. (Poster)
34. JOHN, W., **BUCKLEY, C.A.**, JACOBS, E.P. and SANDERSON, R.D., 'Synthesis and Use of Poly DADMAC for Water Purification', Water Institute of Southern Africa (WISA), Biennial Conference & Exhibition, ICC, Durban, South Africa, 19-23 May 2002. (Poster)

35. PASTRE, A., MULHOLLAND, M., LE LANN, M.-V., **BUCKLEY, C.A.**, BROUCKAERT, C.J., ROUSTAN, M. and MABEER, V., 'Control of Potable Water Chlorination', Water Institute of Southern Africa (WISA), Biennial Conference & Exhibition, ICC, Durban, South Africa, 19-23 May 2002. (Poster)
36. HUANG, T., BROUCKAERT, C.J., PRYOR, M., DOCRAT, M. and **BUCKLEY, C.A.**, 'Application of Computational Fluid Dynamics Modelling on an Ozone Contactor', Water Institute of Southern Africa (WISA), Biennial Conference & Exhibition, ICC, Durban, South Africa, 19-23 May 2002. (Poster)
37. BROUCKAERT, C.J., SCHNEIDER, J., MANSFIELD, M. and **BUCKLEY, C.A.**, 'Water Pinch Analysis as a Transparent Tool for the Co-regulation of Industrial Processes', Water Institute of Southern Africa (WISA), Biennial Conference & Exhibition, ICC, Durban, South Africa, 19-23 May 2002. (Poster)
38. FOXON, K.M., DAMA, P., BELL, J. and **BUCKLEY, C.A.**, 'Application of Aquatic Modelling to the Design of an Anaerobic Baffled Reactor for Peri-urban Sanitation', Water Institute of Southern Africa (WISA), Biennial Conference & Exhibition, ICC, Durban, South Africa, 19-23 May 2002. (Poster)
39. TELUKDARIE, A., **BUCKLEY, C.A.** And KOEFOED, M., 'The Importance of Assessment Tools in Promoting Cleaner Production in the Metal Finishing Industry', Volume 1, Proceedings of the International Waste Management Biennial Congress & Exhibition (Wastecon 2002), ICC, Durban, South Africa, pp. 438-445, 30 September - 4 October 2002. (Paper)
40. BARCLAY, S.J., **BUCKLEY, C.A.** And LUNDBO, K., 'The Importance of Training in Promoting Cleaner Production', Volume 1, Proceedings of the International Waste Management Biennial Congress & Exhibition (Wastecon 2002), ICC, Durban, South Africa, pp. 347-354, 30 September - 4 October 2002. (Paper)
41. RAMSAMY, D., RAKGOTHO, T., NAIDOO, V. And **BUCKLEY, C.A.**, 'Anaerobic Co-digestion of High Strength / Toxic Organic Liquid Effluents in a Batch and Continuous Experiments', Volume 2, Proceedings of the International Waste Management Biennial Congress & Exhibition (Wastecon 2002), ICC, Durban, South Africa, pp. 242-251, 30 September - 4 October 2002. (Paper)
42. NAIDOO, D., NAIDOO, V. And **BUCKLEY, C.A.**, 'Determination of Toxicity of Industrial Effluents Using the Anita-Maia Titration Biosensor', Volume 1, Proceedings of the International Waste Management Biennial Congress & Exhibition (Wastecon 2002), ICC, Durban, South Africa, pp. 172-178, 30 September - 4 October 2002. (Paper)
43. BINDA, M.A., NAIDOO, V. And **BUCKLEY, C.A.**, 'Score System for the Selection of Textile Chemicals and Dyes in South Africa', Volume 1, Proceedings of the International Waste Management Biennial Congress & Exhibition (Wastecon 2002), ICC, Durban, South Africa, pp. 413-421, 30 September - 4 October 2002. (Paper)
44. SOUKOP, M.B., HOUNSOME, R., BARCLAY, S.J. And **BUCKLEY, C.A.**, 'Is Waste Minimisation a Social Sustainable Tool?', Volume 1, Proceedings of the International Waste Management Biennial Congress & Exhibition (Wastecon 2002), ICC, Durban, South Africa, pp. 458-468, 30 September - 4 October 2002. (Poster)
45. BARCLAY, S.J. And **BUCKLEY, C.A.**, 'Facilitator's Manual for Establishing and Running Waste Minimisation Clubs in South Africa', Volume 1, Proceedings of the International Waste Management Biennial Congress & Exhibition (Wastecon 2002), ICC, Durban, South Africa, pp. 407-412, 30 September - 4 October 2002. (Poster)
46. DEMPSTER, H., BARCLAY, S.J., BLOMQUIST, P.A., **BUCKLEY, C.A.**, SPANKIE, S.A.A. And BROWN, N., 'Factors Affecting the Success of the Pietermaritzburg Waste Minimisation Club', Volume 1, Proceedings of the International Waste Management Biennial Congress & Exhibition (Wastecon 2002), ICC, Durban, South Africa, pp. 422-430, 30 September - 4 October 2002. (Poster)
47. NAIDOO, V., RAKGOTHO, T., MAJIYEZI, S., ODHAV, B. And **BUCKLEY, C.A.**, 'Potential for Anaerobic Treatment of High Strength/Toxic Organic Liquid Industrial Effluents', Volume 1, Proceedings of the International Waste Management Biennial Congress & Exhibition (Wastecon 2002), ICC, Durban, South Africa, pp. 179-187, 30 September - 4 October 2002. (Poster)

48. SPANKIE, S., BROWN, N., VAN DAELE, A., BARCLAY, S.J. And **BUCKLEY, C.A.**, 'Chemical Analysis as an Aid to Waste Minimisation in the Metal Finishing Industry', Volume 1, Proceedings of the International Waste Management Biennial Congress & Exhibition (Wastecon 2002), ICC, Durban, South Africa, pp. 469-477, 30 September - 4 October 2002. (Poster)
49. **BUCKLEY, C.A.**, 'Membranes and Sustainable Water for Developing Countries', Exploration of the Potential of Membrane Technology for Sustainable Decentralised Sanitation, Rockefeller Foundation Team Residency, Bellagio, Italy, 23-26 April 2003. (Paper)
50. BARCLAY, S.J. And **BUCKLEY, C.A.**, 'Facilitator's Manual for Establishing and Running Waste Minimisation Clubs in South Africa', NATO CCMS pilot Study on Clean Products and Processes, 2003 Annual Meeting, Cetraro, Italy, 11 -15 May 2003. (Paper)
51. **BUCKLEY, C.A.**, 'Clean Products and Processes Update', NATO CCMS pilot Study on Clean Products and Processes, 2003 Annual Meeting, Cetraro, Italy, 11 -15 May 2003. (Extended Abstract)
52. BARCLAY, S.J., WENZEL, H., SCHNEIDER, Z., **BUCKLEY, C.A.**, KNUDSEN, H.H. And BARCLAY, S.J., 'Break-through of Mass Integration in Textile Industry Through Development of Generic Water Recycle Schemes', Engineering Conferences International on Water Purification and Reuse, Seminaris Seehotel, Potsdam, Germany, 8 -13 June 2003. (Poster)
53. KOEFOED, M. And **BUCKLEY, C.A.**, 'Water Saving in Wet Industry, The Metal Finishing Sector as a Case Study', Afribuild/Afriwater 2003 Conference (WISA), Sandton Convention Centre, Sandton, Johannesburg, 13-15 August 2003. (Paper)
54. PILLAY, S.D., FRIEDRICH, E. And **BUCKLEY, C.A.**, 'Life Cycle Assessment as a Focusing and Environmental Improvement Tool – A Case Study in Water Recycling', Proceedings of the South African Chemical Engineering Congress, Chemical Engineers Competing in the Global Economy, Sun City, South Africa, 3-5 September 2003, ISBN No. 0-958-46095-7. (Paper)
55. GIANADDA, P., BROUCKAERT, C.J. AND **BUCKLEY, C.A.**, 'The Application of Combined Water and Materials Pinch Analysis to a Chlor-alkali Plant', Proceedings of the South African Chemical Engineering Congress, Chemical Engineers Competing in the Global Economy, Sun City, South Africa, 3-5 September 2003, ISBN No. 0-958-46095-7. (Paper)
56. HUANG, T.-H., BROUCKAERT, C.J. And **BUCKLEY, C.A.**, 'A Computational Modelling and Kinetic Study of an Ozone Contactor', Proceedings of the South African Chemical Engineering Congress, Chemical Engineers Competing in the Global Economy, Sun City, South Africa, 3-5 September 2003, ISBN No. 0-958-46095-7. (Paper)
57. BISCOS, C., MULHOLLAND, M., LE LANN, M.-V., **BUCKLEY, C.A.** And BROUCKAERT, C.J., 'Optimisation Techniques Applied to a Potable Water Distribution System', Proceedings of the South African Chemical Engineering Congress, Chemical Engineers Competing in the Global Economy, Sun City, South Africa, 3-5 September 2003, ISBN No. 0-958-46095-7. (Poster)
58. GIANADDA, P., BROUCKAERT, C.J. And **BUCKLEY, C.A.**, 'The Optimisation of an Ion-exchange Demineralisation Plant Using Combined Water and Materials and Pinch Analysis', Proceedings of the South African Chemical Engineering Congress, Chemical Engineers Competing in the Global Economy, Sun City, South Africa, 3-5 September 2003, ISBN No. 0-958-46095-7. (Poster)
59. JEAN, R., BROUCKAERT C.J., MULHOLLAND, M. And **BUCKLEY, C.A.**, 'Modelling and Control of Cooling Water Circuit at a Power Station, Proceedings of the South African Chemical Engineering Congress, Chemical Engineers Competing in the Global Economy, Sun City, South Africa, 3-5 September 2003, ISBN No. 0-958-46095-7. (Poster)
60. ARJUN, N., SMITH, M., RODDA, N. And **BUCKLEY, C.A.**, 'Water Quality in Peri-urban Communities : Interaction of Water Supply Devices and Water Use Behaviours for Users Supplied by Communal Standpipes

and Household Ground Tanks in Cato Manor (Durban)', IWA Symposium on Health Related Microbiology, Cape Town, 14-19 September 2003. (Poster)

61. MACKAY, N., SMITH, A., RODDA, N. And **BUCKLEY, C.A.**, 'Feasibility Study of the Use of Effluent from an Anaerobic Baffled Reactor (ABR) for Irrigation in a Peri-urban Community (Cato Manor, Durban)', IWA Symposium on Health Related Microbiology, Cape Town, 14-19 September 2003. (Poster)

62. BISCOS, C., BROUCKAERT, C.J., MULHOLLAND, M. And **BUCKLEY, C.A.**, 'Optimal Operation of a Potable Water Distribution Network', City Engineers Strategies Conference, Cape Town International Convention Centre, Cape Town, 19-21 November 2003. (Paper)

63. PILLAY, S.D., FRIEDRICH, E. And **BUCKLEY, C.A.**, 'An Assessment of Using Water Recycling to Release Water for New Domestic Consumers', United Nations Environment Programme, Dams and Development Project, Issue Based Workshop #1, Comprehensive Options Assessment of Dams and their Alternatives, International Conference Centre Geneva, Nairobi, Kenya, 22-24 September 2003. (Extended abstract)

64. PILLAY, S.D., FRIEDRICH, E. And **BUCKLEY, C.A.**, 'Life Cycle Assessment as a Focusing and Improvement Tool as Applied to Wastewater Treatment', The International Water Association Conference on Environmental Biotechnology, Advancement on Water and Wastewater Applications in the Tropics, The Legend Hotel, Kuala Lumpur, Malaysia, 9-10 December 2003. (Paper)

65. BINDA, M. And **BUCKLEY, C.A.**, 'The Score System in the South African Textile Industry', The International Water Association Conference on Environmental Biotechnology, Advancement on Water and Wastewater Applications in the Tropics, The Legend Hotel, Kuala Lumpur, Malaysia, 9-10 December 2003. (Paper)

66. **BUCKLEY, C.A.** And MACLEOD, N., 'Free Sustainable Basic Water and Sanitation - The Durban Experience', The International Water Association Conference on Environmental Biotechnology, Advancement on Water and Wastewater Applications in the Tropics, The Legend Hotel, Kuala Lumpur, Malaysia, 9-10 December 2003. (Keynote Paper)

67. BELL, J. And **BUCKLEY, C.A.**, 'Characterisation of the Methanogenic Populations in an Operating Anaerobic Baffled Reactor', The International Water Association Conference on Environmental Biotechnology, Advancement on Water and Wastewater Applications in the Tropics, The Legend Hotel, Kuala Lumpur, Malaysia, 9-10 December 2003. (Paper)

68. BROUCKAERT, C.J., HARRISON, J., FOXON, K., RODDA, N., AUSTIN, A. And **BUCKLEY, C.A.**, 'A Mathematical Analysis of the Drying Mechanisms in a Growing Heap of Faeces', 1st International Conference on Onsite Wastewater Treatment and Recycle, Esplande Hotel Fremantle, Western Australia, 11-13 February 2004. (Ref paper)

69. LALBAHADUR, T., PILLAY, S., RODDA, N., SMITH, M., **BUCKLEY, C.A.**, HOLDER, F., BUX, F. And FOXON, K., 'Microbiological Studies of an Anaerobic Baffled Reactor : Microbial Community Characterisation Deactivation of Health-related Indicator Bacteria', 1st International Conference on Onsite Wastewater Treatment and Recycle, Esplande Hotel Fremantle, Western Australia, 11-13 February 2004. (Ref Paper)

70. FOXON, K., MTEMBU, D.Z., PILLAY, S., RODDA, N., SMITH, M. And **BUCKLEY, C.A.**, 'The Anaerobic Baffled Reactor (ABR): An Appropriate Technology for the On-site Sanitation, 1st International Conference on Onsite Wastewater Treatment and Recycle, Esplande Hotel Fremantle, Western Australia, 11-13 February 2004. (Paper)

71. BARCLAY, S.J., LUNDBO, K., FOURE, P. And **BUCKLEY, C.A.**, 'Local Authorities Take on Waste Minimisation', Proceedings of the 2004 Water Institute of Southern Africa (WISA) Biennial Conference and Exhibition, Cape Town International Convention Centre, Cape Town, South Africa, 2-6 May 2004, pp. 86-98, ISBN 1-920-01728-3. (Poster)

72. BARCLAY, S.J., LUNDBO, K., FOURE, P. and **BUCKLEY, C.A.**, 'Cleaner Production Makes Good Business Sense : Results of the Cleaner Textile Production Project', Proceedings of the 2004 Water Institute of Southern Africa (WISA) Biennial Conference and Exhibition, Cape Town International Convention Centre, Cape Town, South Africa, 2-6 May 2004, pp. 115-119, ISBN 1-920-01728-3. (Poster)
73. BARCLAY, S.J., LUNDBO, K., FOURE, P. and **BUCKLEY, C.A.**, 'Demonstrating the Benefits of Cleaner Production', Proceedings of the 2004 Water Institute of Southern Africa (WISA) Biennial Conference and Exhibition, Cape Town International Convention Centre, Cape Town, South Africa, 2-6 May 2004, pp. 120-126, ISBN 1-920-01728-3. (Poster)
74. WENZEL, H., SCHNEIDER, Z, **BUCKLEY, C.A.**, KNUDSEN, H.H. and BARCLAY, S.J., 'Breakthrough of Mass Integration Textile Industry Through Development of Generic Water Recycling Schemes', Proceedings of the 2004 Water Institute of Southern Africa (WISA) Biennial Conference and Exhibition, Cape Town International Convention Centre, Cape Town, South Africa, 2-6 May 2004, pp. 617, ISBN 1-920-01728-3. (Poster)
75. FOURE, P., BARCLAY, S.J., LUNDBO, K. And **BUCKLEY C.A.**, 'Cleaner Textile Production : Achievements and Future Plans', Proceedings of the 2004 Water Institute of Southern Africa (WISA) Biennial Conference and Exhibition, Cape Town International Convention Centre, Cape Town, South Africa, 2-6 May 2004, pp. 108-114, ISBN 1-920-01728-3. (Poster)
76. JEAN, R., BROUCKAERT, C., MULHOLLAND, M. And **BUCKLEY, C.A.**, 'Water Management in Zero Liquid Waster Power Station', Proceedings of the 2004 Water Institute of Southern Africa (WISA) Biennial Conference and Exhibition, Cape Town International Convention Centre, Cape Town, South Africa, 2-6 May 2004, pp. 673-682, ISBN 1-920-01728-3. (Poster)
77. THANJEKWAYO, M., SHUMANE, M. and **BUCKLEY, C.A.**, 'The Effects f Natural Organic Matter (NOM) from Selected SA Rivers on the Precipitation of Calcium Carbonate (Calcite or Aragonite), Proceedings of the 2004 Water Institute of Southern Africa (WISA) Biennial Conference and Exhibition, Cape Town International Convention Centre, Cape Town, South Africa, 2-6 May 2004, pp. 683, ISBN 1-920-01728-3. (Poster)
78. FRIEDRICH, E., PILLAY, S. And **BUCKLEY, C.A.**, 'The Environmental Impacts of Potable and Recycled Water : A Case Study on Effluent Toxicity', Proceedings of the 2004 Water Institute of Southern Africa (WISA) Biennial Conference and Exhibition, Cape Town International Convention Centre, Cape Town, South Africa, 2-6 May 2004, pp. 253-262, ISBN 1-920-01728-3. (Paper)
79. FOXON, K., PILLAY, S., LALBAHADUR, T., RODDA, N., HOLDER, F. And **BUCKLEY, C.A.**, 'The Anaerobic Baffled Reactor (ABR) : An Appropriate Technology for On-site Sanitation', Proceedings of the 2004 Water Institute of Southern Africa (WISA) Biennial Conference and Exhibition, Cape Town International Convention Centre, Cape Town, South Africa, 2-6 May 2004, pp. 134-144, ISBN 1-920-01728-3. (Paper)
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