

POLLUTION RESEARCH GROUP

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Pollution Research Group
School of Chemical Engineering
Howard College Campus
University of KwaZulu-Natal
Durban, 4041
South Africa

Tel : (031) 260-3375

Fax : (031) 260-3241

E-MAIL ADDRESSES :

Prof C A Buckley : Buckley@ukzn.ac.za

Mr C J Brouckaert : Brouckae@ukzn.ac.za

Mrs E Friedrich : Fredriche@ukzn.ac.za

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104. ERSWELL, A., 'The Re-use of Reactive Dyeliquors', Natcon '90, South African Dyers and Finishers Association, Elangeni Hotel, Durban, Republic of South Africa, 7th - 8th June 1990 (Talk).
105. PILLAY, V.L. and BUCKLEY, C.A., 'Fluid and Particle Dynamics in a Turbulent Cross-flow Microfilter' International Conference on Membranes and Membrane Processes, Chicago, 20-24 August 1990.
106. BUCKLEY, C.A. and SIMPSON, A.E., 'Practical Methods in Attaining Reductions in Chemicals, Water and Effluent Loads', New Technologies for Textiles Symposium, University of Port Elizabeth, Port Elizabeth, 15th-16th October 1990.
107. BUCKLEY, C.A. and SIMPSON, A.E., 'Closed Loop Treatment Options for Scouring Effluent', New Technologies for Textiles Symposium, University of Port Elizabeth, Port Elizabeth, 15th-16th October 1990.
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110. BUCKLEY, C.A., 'Environmental Ethics and Water', 2nd Biennial Conference/Exhibition, Water Institute of Southern Africa, World Trade Centre, Kempton Park, 13-16 May 1991.
111. CHETTY, S., 'Evaluation of Hydrogen Peroxide and Ultraviolet Radiation to Oxidise Organic Molecules in Industrial Effluents and Potable Water', 2nd Biennial Conference/Exhibition, Water Institute of Southern Africa, World Trade Centre, Kempton Park, 13-16 May 1991.
112. WADLEY, S., 'Recovery of Sugar Refinery Ion Exchange Regeneration Effluent by Nanofiltration', 2nd Biennial Conference/Exhibition, Water Institute of Southern Africa, World Trade Centre, Kempton Park, 13-16 May 1991.
113. TOWNSEND, R.B., NEYTZELL-DE WILDE, F.G. and BUCKLEY, C.A., 'The Treatment of Industrial Effluents Containing Emulsions by Crossflow Microfiltration Using Pretreated Woven Fabric Tubes', 2nd Biennial Conference/Exhibition, Water Institute of Southern Africa, World Trade Centre, Kempton Park, 13-16 May 1991.
114. PILLAY, V.L. and BUCKLEY, C.A., 'On the Operation of a Cross-flow Microfilter', 2nd Biennial Conference/Exhibition, Water Institute of Southern Africa, World Trade Centre, Kempton Park, 13-16 May 1991.
115. KERR, C.A., TRUSLER, G.E., LOEWENTHAL, R.E.* and BUCKLEY, C.A., 'Chemical Speciation as an Aid to Understanding the Precipitation Kinetics of Industrial Effluents', 2nd Biennial Conference/Exhibition, Water Institute of Southern Africa, World Trade Centre, Kempton Park, 13-16 May 1991 (Poster Presentation).
116. HURT, Q.E., 'Improving the Performance of Membrane Systems by Mass Transfer Enhancement', 2nd Biennial Conference/Exhibition, Water Institute of Southern Africa, World Trade Centre, Kempton Park, 13-16 May 1991 (Poster Presentation).

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118. RENCKEN, G.E. and BUCKLEY, C.A., 'Modelling the Deposition of a Compressible Cake Inside a Porous Tube', 6th National Meeting of the South African Institution of Chemical Engineers, Elangeni Hotel, Durban, 7-9 August 1991.
119. KERR, C.A., BUCKLEY, C.A. and KOHLER, C., 'Speciation as an Aid to Understanding the Chemistry of Water Treatment', 6th National Meeting of the South African Institution of Chemical Engineers, Elangeni Hotel, Durban, 7-9 August 1991.
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123. WADLEY, S., 'A Review of Industrial Application of Nanofiltration Membranes', The Water Institute of Southern Africa Membrane Technology Division, One Day Mini-symposium and Technical Visits on Membrane Applications in the RSA Industry, Engineering Investigation, Eskom, Rosherville, South Africa, 22 October 1991.
124. BRADBURY, H.J.*, BUCKLEY, C.A., KERR, C.A., JENKINS, P.* and SIMPSON, A.E.*, 'Hard Evidence: Environmental Data for Industrial Defence', Water and Wastewater Monitoring and Analysis, 2 IBC Technical Services, Café Royal, London, 26-27 November 1991.
125. MEADOWS, D.M.*, WADLEY, S. and BUCKLEY, C.A., 'Evaluation of Nanofiltration for the Recovery of Brine from Sugar Liquor Decolourising Resin Regeneration Waste', IAWPRC Specialised Conference on Membrane Technology in Wastewater Management, The Cape Sun Hotel, Cape Town, 2-5 March 1992. (Poster)
126. TURPIE, D.W.F.*, STEENKAMP, C.J.*, TOWNSEND, R.B. and BUCKLEY, C.A., 'Industrial Application of Formed-in-place Ultrafiltration and Automated Membrane-forming in the Treatment and Recycle of Rinse-water During the Scouring of Raw Wool', IAWPRC Specialised Conference on Membrane Technology in Wastewater Management, The Cape Sun Hotel, Cape Town, 2-5 March 1992.
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129. PILLAY, V.L. and BUCKLEY, C.A., 'Cake Formation in Cross-flow Microfiltration Systems', IAWPRC Specialised Conference on Membrane Technology in Wastewater Management, The Cape Sun Hotel, Cape Town, 2-5 March 1992.
130. RENCKEN, G.E. and BUCKLEY, C.A., 'Dewatering Sludges Using a Novel Membrane Technology', IAWPRC Specialised Conference on Membrane Technology in Wastewater Management, The Cape Sun Hotel, Cape Town, 2-5 March 1992.
131. BROUCKAERT, C.J., 'The Use of Computer Simulation of Tubular Reverse Osmosis in Conjunction with Pilot-plant Studies', IAWPRC Specialised Conference on Membrane Technology in Wastewater Management, The Cape Sun Hotel, Cape Town, 2-5 March 1992.
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 135. PILLAY, V.L., TREFFRY-GOATLEY, K., FORTMANN, N.*, EKAMA, G.* and BUCKLEY, C.A., 'The Economic Feasibility of Using Cross-flow Microfiltration to Improve the Performance of Anaerobic Digestors', Anaerobic Digestion Conference, Pietermaritzburg, 10-13 July 1992.
 136. SWART, A.F., BROUCKAERT, C.J. and BUCKLEY, C.A., 'Criteria for Selecting the Operating Regime of the Cross-flow Microfilter or the Tubular Filter Press for Clarification of Turbid Waters', International Membrane Science and Technology Conference, Sydney, Australia, 10-12 November 1992.
 137. PILLAY, V.L. and BUCKLEY, C.A., 'Modelling of the Steady-state in Turbulent Cross-flow Microfiltration', International Membrane Science and Technology Conference, Sydney, Australia, 10-12 November 1992.
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 139. BROUCKAERT, C.J., JACOBS, E.P.*, MACTAVISH, F.*, COWAN, J.A.C.*, and HART, O.O.*, 'Cleaning Strategies for Membranes Operating on Red-meat Abattoir Waste Streams', International Membrane Science and Technology Conference, Sydney, Australia, 10-12 November 1992.
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 141. BOTHA, C.J. and BUCKLEY, C.A., 'A Study of Hydrodynamic Cavitation as a Method of Water Disinfection', Biotech SA '93, First Biotechnology Conference in South Africa, Biotechnology & Development in South Africa, Rhodes University, Grahamstown, South Africa, 31 January to 3 February 1993. (Poster Presentation).
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 144. BARNETT, J.L., BROUCKAERT, C.J., BADDOCK, L.A.D., de BENITO, B.* and BUCKLEY, C.A., 'Impulse : Using Personal Computers for Residence Time Modelling', 5th Biennial PC Symposium (Effective Use of the Personal Computer), SA Institution of Chemical Engineers (N-Tvl Branch), Conference Centre, University of Pretoria, 21 April 1993. (Paper)
 145. KERR, C.A. and BUCKLEY, C.A., 'A Child's Guide to Chemical Speciation', 5th Biennial PC Symposium (Effective Use of the Personal Computer), SA Institution of Chemical Engineers (N-Tvl Branch), Conference Centre, University of Pretoria, 21 April 1993. (Paper)
 146. PILLAY, M., HUDSON, N.*, FURNESS, H.D.* and BUCKLEY, C.A., 'Detergent Phosphorus in South Africa : Impact on Eutrophication with Specific Reference to the Umgeni Catchment', 3rd Biennial Conference, Water Institute of Southern Africa, Elangeni Hotel, Durban, 24-27 May 1993 (Paper).

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150. BROUCKAERT, C.J., BROUCKAERT, B.M. and BUCKLEY, C.A., 'Prediction of Osmotic Pressure of Inorganic Ionic Solutions from Equilibrium Speciation', 3rd Biennial Conference, Water Institute of Southern Africa, Elangeni Hotel, Durban, 24-27 May 1993 (Poster).
151. GODEFROY, S.J., CARLIELL, C.M., NAIDOO, N., MULHOLLAND, D., MARTINCIGH, B.S., SENIOR, E.* and BUCKLEY, C.A., 'Regional Treatment of Textile Effluent', 3rd Biennial Conference, Water Institute of Southern Africa, Elangeni Hotel, Durban, 24-27 May 1993 (Poster).
152. KERR, C.A. and BUCKLEY, C.A., 'MINTEQA2 - Accessible Aqueous Chemical Speciation', 3rd Biennial Conference, Water Institute of Southern Africa, Elangeni Hotel, Durban, 24-27 May 1993 (Poster).
153. BROUCKAERT, C.J., WADLEY, S. and BUCKLEY, C.A., 'Reverse Osmosis Modelling', A One-day Speciality Topic Workshop, 3rd Biennial Conference, Water Institute of Southern Africa, Durban, 23 May 1993.
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157. BUCKLEY, C.A. and BROUCKAERT, C.J., 'Situation Assessment - Membrane Research in South Africa', Workshop on the Development of a Strategic Plan for Membrane Research in South Africa, Water Research Commission, Pretoria, 14-16 June 1993. (Workshop)
158. BUCKLEY, C.A., 'The Role of Bibliographic Information in the Water Research Environment, with Particular Reference to Information Access', Workshop on the Future Direction of the South African Water Information Centre, Water Research Commission, Pretoria, 23 June 1993. (Workshop)
159. SAAYMAN, H.*, KURE, A.*, DE VOS, R.*, KERR, C.A. and BUCKLEY, C.A., 'MINTEQA2 - Support in Southern Africa', 6th South African National Hydrological Symposium, University of Natal, Pietermaritzburg, 8-10 September 1993. (Poster)
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161. NAIDOO, V., PILLAY, V.L. and BUCKLEY, C.A., 'Microbial Assessment of Cross-flow Microfiltration Unit Coupled to an Anaerobic Digester', South African Microbiological Society, Durban, 15 October 1993. (Presentation)
162. PILLAY, V.L., TOWNSEND, R.B., NAIDOO, V. and BUCKLEY, C.A., 'Improving Anaerobic Digester Performance at Waste Water Treatment Works: The Coupled CFMF/Digester Process', Seventh International Symposium on Anaerobic Digestion, Cape Town, South Africa, 23-27 January 1994 (Paper).
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165. BROUCKAERT, C.J., BADDOCK, L.A.D., BARNETT, J.L. and BUCKLEY, C.A., 'Impulse: A PC Program for the Determination of Residence Time Distributions of Biological and Chemical Reactors', Seventh International Symposium on Anaerobic Digestion, Cape Town, South Africa, 23-27 January 1994. (Poster)
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170. WADLEY, S., BROUCKAERT, C.J., BADDOCK, L.A.D. and BUCKLEY, C.A., 'Modelling of Nanofiltration Applied to the Recovery of Salt from Waste Brine at a Sugar Decolourisation Plant', Engineering of Membrane Processes II - Environmental Applications, II Ciocco, Tuscany, Italy, 26-28 April 1994. (Paper)
171. BROUCKAERT, C.J., BADDOCK, L.A.D., WADLEY, S., SAAYMAN, H.M.* and BUCKLEY, C.A., 'A Computer Model for the Interpretation and Archiving of Membrane Separation Data', Engineering of Membrane Processes II - Environmental Applications, 26-28 April 1994, II Ciocco, Tuscany, Italy. (Poster)
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176. BUCKLEY, C.A., 'Salt Removal ', Engineering of Membrane Processes II - Environmental Applications, 26-28 April 1994, II Ciocco, Tuscany, Italy. (Session Chairman)
177. BROUCKAERT, C.J., 'Water Industry', Engineering of Membrane Processes II - Environmental Applications, 26-28 April 1994, II Ciocco, Tuscany, Italy. (Session Chairman)
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180. BUCKLEY, C.A., 'Speciation as an Aid to Understanding the Chemistry of Water', Afriwater Conference, National Exhibition Centre, Johannesburg, South Africa, 6-9 June 1994. (Paper)
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183. BROUCKAERT, C.J., WADLEY, S., BADDOCK, L.A.D. and HURT, Q.E., 'Reverse Osmosis Modelling', A One Day Course Run in Conjunction with the Afriwater Conference, Johannesburg, Kruger Park, South Africa, 8 June 1994. (Course)
184. GORDON, P., 'An Investigation into the Scaling of Process Water', Sasol Technology, Symposium, Randse Afrikaanse Universiteit, Johannesburg, South Africa, 8 September 1994. (Presentation)
185. BUCKLEY, C.A. 'The Exploitation of Microbiology', South African Microbiology Society, Natal Branch, Annual Symposium, Pietermaritzburg, South Africa, 13 October 1994. (Key Note Address)
186. CARLIELL, C.M., 'The South African Textile Industry : Anaerobic Digestion for Colour Removal', Water Institute of Southern Africa (Natal Branch), Pinetown, South Africa, 19 October 1994. (Presentation)
187. HURT, Q.E. and BUCKLEY, C.A., 'An Introduction to Environmental Management System', A Course Presented to South African Institution of Chemical Engineers (Natal Branch), Innovation Centre, University of Natal, South Africa, 25 October 1994. (Course)
188. WADLEY, S. and SCHOEMANN, J.J.*, 'Mechanism of Organic and Inorganic Fouling of Pressure-Driven Membranes', 1st WISA-MTD Workshop/Seminar on Preparation, Performance and Practise of Permselective Membranes, Van Stadens River Mouth Resort, Eastern Cape, South Africa, 31 October-2 November 1994. (Overhead Presentation)
189. BROUCKAERT, C.J., 'Separation Concepts of Pressure-driven Membrane Processes', 1st WISA-MTD Workshop/Seminar on Preparation, Performance and Practise of Permselective Membranes, Van Stadens River Mouth Resort, Eastern Cape, South Africa, 31 October-2 November 1994. (Slide Presentation)
190. BROUCKAERT, C.J., 'Pilot Plant Study in Process Development and Process Application', 1st WISA-MTD Workshop/Seminar on Preparation, Performance and Practise of Permselective Membranes, Van Stadens River Mouth Resort, Eastern Cape, South Africa, 31 October-2 November 1994. (Session Chairman)
191. PILLAY, V.L., 'Woven-tube Microfiltration in the Process Application', 1st WISA-MTD Workshop/Seminar on Preparation, Performance and Practise of Permselective Membranes, Van Stadens River Mouth Resort, Eastern Cape, South Africa, 31 October -2 November 1994. (Slide Presentation)
192. BUCKLEY, C.A., 'Environmental Protection with Membranes - South African Experience', Cleaner Production - The Role of Membrane Technology, The University of New South Wales, Australia, 31 October-2 November 1994. (Slide Presentation)
193. BROUCKAERT, C.J., 'Prospects and Problems with Large-scale Membrane Filtration of Juices', SMRI Colloquium on Classification, Sugar Milling Research Institute, University of Natal, Durban, 24 November 1994. (Slide Presentation)
194. BARCLAY, S.J., 'Minimising Textile Effluent at Hammarsdale', Ntshongweni Catchment Programme Technical Planning Workshop, Inchanga, South Africa, 29 November 1994. (Overhead Presentation)
195. FANE, .G.*, SCHIPPERS, J.C.* and BUCKLEY, C.A., 'Membranes Applied to Wastewater Treatment', A One Day Workshop Presented at the International Water Supply Association/International Association on Water Quality/Australian Water and Wastewater Association, International Specialist Conference on Desalination and Water Reuse, Perth, Western Australia, 30 November 1994. (Workshop)
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197. NAIDOO, N. and MULHOLLAND, D.A., 'The Nitrification of Dye and Dye Degradation Products', Frank Warren National Organic Chemistry Conference, Avontura Aldam, Free State, 2-7 April 1995. (Poster).
 198. NAIDOO, N., MULHOLLAND, D.A., BARCLAY, S.J. and BUCKLEY, C.A., 'The Identification, Separation and Degradation of an Azo Reactive Dye (C.I. Reactive RED 2)', Hong Kong International Symposium on Hetrocyclic Chemistry, University of Hong Kong, 13-16 August 1995. (Poster)
 199. BUCKLEY, C.A., 'Applications of Bioprocessing in South Africa', UNESCO-FRD Biotechnology Regional Workshop Programme, University of Durban-Westville, South Africa, 18 September 1995. (Plenary Lecture)
 200. BARCLAY, S.J., 'Anaerobic Treatment of Textile Effluent', Intensive and Advanced Course: Biochemical Engineering Applications in Environmental Biotechnology and Cleaner Production, Guatemala, 18 to 29 September 1995. (Overhead Presentation)
 201. BUCKLEY, C.A., 'Water Conservation Reportback Power Generation, Mining and Industrial Sector', National Conference on Water Conservation, The World Trade Centre, Kempton Park, 2-3 October 1995.
 202. WINSHIP, S.J., KAISER, C.J. and SCHWIKKARD, G.W., 'Cavitation... An Advanced Oxidation Process for Water Treatment', WISA General Meeting, Pinetown, South Africa 26 July 1995. (Slide Presentation)
 203. BROUCKAERT, C.J., BADDOCK, L.A.D. and BUCKLEY, C.A., 'The Application of Computational Fluid Dynamics to Water Treatment Equipment', Applied Pollution Research Symposium, WISA Water Scientists, Technikon Natal, Durban, South Africa, 24 August 1995. (Slide Presentation)
 204. GORDON, P., 'Investigation into the Fouling of Process Water', Applied Pollution Research Symposium, WISA Water Scientists, Technikon Natal, Durban, South Africa, 24 August 1995. (Slide Presentation)
 205. BARNETT, J.L., 'Residence Time Distribution', Applied Pollution Research Symposium, WISA Water Scientists, Technikon Natal, Durban, South Africa, 24 August 1995. (Slide Presentation)
 206. GOVENDER, S., PILLAY, V.L. and BUCKLEY, C.A., 'Woven-fibre Cross-flow Filtration', Applied Pollution Research Symposium, WISA Water Scientists, Technikon Natal, Durban, South Africa, 24 August 1995. (Slide Presentation)
 207. BROUCKAERT, B.M., 'Introduction to MINTEQA2, A Geochemical Speciation Program', Applied Pollution Research Symposium, WISA Water Scientists, Technikon Natal, Durban, South Africa, 24 August 1995. (Slide Presentation)
 208. BUCKLEY, C.A. and LOVEDAY, B.K., 'Legislation on Water Pollution in South Africa and an Overview of Research Work on Water and Mineral Processing in the Department of Chemical Engineering, University of Natal', The South African Institute of Mining and Metallurgy, Natal Branch, General Meeting and Presentation, Westville, Durban, South Africa, 8 May 1996. (Technical Presentation)
 209. RENCKEN, G.E*, , D.J. and BUCKLEY, C.A., 'Modelling of the Tubular Filter Press Process', The Water Institute of Southern Africa, Biennial Conference & Exhibition, Port Elizabeth, Feather Market Centre, 20-23 May 1996. (Poster)
 210. BROUCKAERT, C.J., SIMPSON, A.E.*, BADDOCK, L.A.D. and BUCKLEY, C.A., 'Modelling of Nanofiltration of Sodium Carbonate Solution', The Water Institute of Southern Africa, Biennial Conference & Exhibition, Port Elizabeth, Feather Market Centre, 20-23 May 1996. (Poster)
 211. BUCKLEY, C.A., ODENDAAL, P.E., KIBATA, N. * and DINDAR, M.C.*, 'Water Supply and Environmental Sanitation Services Electronic Network for Developing Country Needs (WENDY)', The Water Institute of Southern Africa, Biennial Conference & Exhibition, Port Elizabeth, Feather Market Centre, 20-23 May 1996. (Poster)

212. BUCKLEY, C.A. and HURT, Q.E., 'Why Water Scientists and Engineers Need to Use the Internet', The Water Institute of Southern Africa, Biennial Conference & Exhibition, Port Elizabeth, Feather Market Centre, 20-23 May 1996. (Poster)
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78. MS MARAJ, S., `Water Quality of Stored Water in Ground Tanks and Stand Pipes in A Peri-urban Environment', Thesis BScHons (BioSci), 2006

5. PATENTS

5.1 DEWATERING SLURRIES

NAME OF APPLICANT		Water Research Commission	
NAME OF INVENTORS		Treffry-Goatley, K. and Buckley, C.A.	
Country	Application No.	Filing Date	Status
South Africa	87/0553	26-1-87	Granted - 30 March 1988
Argentina	24309	30-1-87	Granted 30 July 1993
Australia	589736	28-1-87	Granted - 15 February 1990
Austria European	AT0235933		Pending
Belgium	BE0235933		Pending
Brazil	PI8700441.0	30-1-87	Pending
Canada	5285101	29-1-87	Pending
Sweden European	873008197	30-1-87	Pending
India	168707	29-1-87	Granted - 26 June 1992
Japan	6554324	30-1-87	Granted - 22 August 1996
Germany	P37725920-08	28-1-87	Pending
Mexico	5100	30-1-87	Granted - 27 April 1993
UK	2185906	30-1-87	Granted - 18 April 1990
USA	007499	28-1-87	Granted - 13 September 1990
Switzerland	CH02359339	30-1-87	Pending
Spain	ES0235933	30-1-87	Pending
France	FR0235933	30-1-87	Pending
Greece	GR0235933	30-1-87	Pending
Italy	IT0235933	30-1-87	Pending
Luxembourg	LU0235933	30-1-87	Pending
Holland European	NL0235933	30-1-87	Pending
Brizil	PI8700441	01-10-97	Pending

5.2 EFFLUENT TREATMENT

NAME OF APPLICANT		Water Research Commission	
NAME OF INVENTORS		Simpson, A.E. and Buckley, C.A.	
Country	Application No.	Filing Date	Status
South Africa	87/4406	18-6-87	Granted - in force
Australia	590852	15-6-87	Granted - 16/3/90 in force
Canada	5397723	16-6-87	Pending
Europe : (Germany Austria Greece France Holland Switzerland Spain Italy)	873056444	24-6-87	Granted - 27/6/90
Japan	62155646	24-6-87	Pending
USA	07/064339	19-6-87	Granted under no. 4752363 on 21-6-87

5.3 THE REMOVAL OF SULPHURIC ACID FROM AN AQUEOUS MEDIUM CONTAINING THE ACID

NAME OF APPLICANT		Water Research Commission	
NAME OF INVENTORS		Buckley, C.A. and Simpson, A.E.	
Based on SA No 87/5749			
Country	Application No.	Filing Date	Status
South Africa	88/5487	27-7-88	Pending
Australia	20399/88	23-8-88	Pending
Canada	573738-9	03-8-88	Pending

5.4 THE REMOVAL OF AMMONIUM SALTS FROM AN AQUEOUS MEDIUM CONTAINING THE SALTS

NAME OF APPLICANT		Water Research Commission	
NAME OF INVENTORS		Buckley, C.A. and Simpson, A.E.	
Country	Application No.	Filing Date	Status
South Africa	88/8898	28-11-88	Granted - Claiming priority from SA No. 87/8990, filed 30.11.91
Australia	26329/88		Pending
Canada	5844274		Pending
Europe	88311324		Pending
USA	607/27662		Pending

5.5 **A MANIFOLD FOR THE UNIFORM DISTRIBUTION OF FLUIDS**

NAME OF APPLICANT		Water Research Commission	
NAME OF INVENTORS		Jenson, V.J.	
Country	Application No.	Filing Date	Status
South Africa	90/8126	11-10-90	Granted - Claiming priority from SA application no. 89/7701, filed 11.10.89.

5.6 **PRECIPITATION CONTROL METHOD AND APPARATUS**

NAME OF APPLICANT		Water Research Commission	
NAME OF INVENTORS		Buckley, C A and Ker, C.A.	
Country	Application No.	Filing Date	Status
South Africa	92/1200	19-02-1992	Granted

5.7 **PRESSURE DRIVEN SEMI-PERMEABLE MEMBRANE SATE METHOD AND APPARATUS**

NAME OF APPLICANT		Water Research Commission	
NAME OF INVENTORS		Buckley, C.A, Spencer, T., Brouckaert, C.J., Hanekom, D.J.	
Country	Application No.	Filing Date	Status
South Africa	93/6615	8-9-1993	Granted (claiming priority from ZA 92/4962)

6. PENDING

1. NAIDOO, N., MULHOLLAND, D.A., JAGJIVAN, D., PAREL, B., CARLIELL, C.M., BARCLAY, S.J. and BUCKLEY, C.A., 'Purification, Structural Elucidation, Chemical and Anaerobic Decolourisation of C.I. Reactive Red 2', Submitted to Water SA, 1996 (accepted).
2. VORENBERG, D., RAMJUGERNATH, D. and BUCKLEY, C.A., 'Environmental Assessment of the Impact of Organic Chemicals on a Water Compartment', Water SA, 2003. (accepted)
3. MOMBA, MNB, MAKALA, N. and BROUCKAERT, B., 'Strategies to Ensure Sustainable Effective Disinfection in Small Municipal Water Distribution Systems', Water Research Commission Report No. 1391, 2005. (book)
4. 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', Eur. Heart J., Doi:10.1093/ehi618, 2005 (being published)
5. FRIEDRICH, E., PILLAY, S. and BUCKLEY, C.A., 'Environmental Life Cycle Assessment Scenario Analysis for Increasing Water Supply and Sanitation in the eThekweni Municipality - Implications for Meeting the Millennium Development Goals', Journal of Cleaner Production, 2005. (submitted for pub)
6. KOEFOED, M. and BUCKLEY, C., 'Cleaner Technology Transfer, A Case Study from the South African Metal Finishing Industry, 2000-2004', Journal of Cleaner Production, 19, 2006, pp 1-15 (submitted for pub).
7. BELL, J., MUDUNGE, R. and BUCKLEY, C.A., 'Treatment of High-Strength and Toxic Organic Industrial Effluents in the Anaerobic Baffled Reactor', Water Research Commission Project Report No. 853/01/06, 2007, ISBN 1-77005-403-0.

7. POST GRADUATE STUDENTS CURRENTLY REGISTERED

7.1 Doctoral (PhD)

University of KwaZulu-Natal:

1. MR MICHAEL KOEFOED - Technology for Cleaner Production in the Metal Finishing Industry - Registered 2001
2. MR NEIL MACLEOD - Attaining the Sustainable Provision of Potable Water to Urban Poor Communities – Registered 2001
3. MS KATHERINE FOXON (nee' Brouckaert) - Analysis of Pilot-Scale Anaerobic Baffled Reactor Treating Domestic Wastewater - Registered 2002 (upgraded from MScEng - registered year 1999).
4. MR ARNESH TELUKDARIE - The Development of a Robust Model to Assess the Cleaner Production Performance and the Opportunities for Improvement of Metal Finishing Enterprises - Registered 2002. (not registered for yr 2006)
5. MR CHRISTOPHER BESTER - An Investigation of Metal Contamination from Slag Heaps and Techniques to Limit Environmental Risk - Registered 2004
6. MS LINDA GODFREY - Waste management of toxic and hazardous chemicals through the establishment of a national pollutant release and transfer register - Registered 2005.
7. MRS ELISABETH MORILLION ('nee Lewis) - Investigation of the Microbial Communities Responsible for Decay of Organic Matter in Solid Waste from Urine Diversion Latrines and Pit Latrines - Registered 2005. (PhD in School of Biological and Conservation Sciences, UKZN) (2006 registration suspended)
8. MR SARUSHEN PILLAY - An Environmental Life Cycle Assessment of the Provision of Recycled Water In Durban - Registered 2002. (upgraded from MScEng - registered year 2001)
9. MR SHAMEER HAREEPARSAD - Chemical Speciation Modelling of Ash/Brine Interaction - Registered 2006
10. MR SUDHIR PILLAY - Operation and Performance of an Anaerobic Baffled Reactor (ABR) Membrane Bioreactor (MBR) Treating Domestic Wastewater – Registered 2006.

University of Stellenbosch:

1. MR WILSON JOHN - Synthesis and use of PolyDADMAC for Water Purification - Registered 2001

7.2 Masters in Engineering (MScEng)

University of KwaZulu-Natal:

1. MS PRIYAL DAMA - The Anaerobic Baffled Reactor for the Treatment of Domestic Waste in Dense Peri-urban Communities - Registered 1999.
2. MS BRINDHA JOHN - An Investigation of the Environmental Impacts on the Manufacturing Process of Pulp and Paper, Based on Life Cycle Assessment Ethodology : A Gate-to Gate Case Study at Mondi Kraft Richards Bay - Registered 2000.
3. MR ERIC SLABBERT - The Application of Water Pinch to an Integrated Pulp and Paper Kraft Mill with an Already Highly Closed Water System - Registered 2000.
4. MR MLUNGISELELI BINDA - Score System for the Selection of Biodegradable Chemicals and Dyes in South Africa - Registered 2002
5. MR THISHEN GOVENDER - Investigation into the Application of a Novel Clarifier for Sugar Cane Juice Clarification - Registered by SMRI - Registered 2002

6. MS SYLVIA TSHIVHUNGE – Criteria for Selecting the Best Sanitation Technology – Registered 2003
7. MR ROBERT STONES - Ground Water Bioremediation - Registered 2004
8. MR PRELAN GOUNDER - Modelling of the Effects of Textile Industry Wastewaters on the Performance of a Municipal Wastewater Treatment Plant - Registered 2004.
9. MR SHAILENDRA RAJKUMAR - Mathematical Modelling of Biological Sulphate Reduction in Anaerobic Digestion - Registered 2004
10. MR REMI JEAN - Modelling and Control of Cooling Water Circuit at a Power Station - Registered 2004.
11. MS NIRVASHNIE BAGIRATHI - Treatment of a High Sulphate Industrial Effluent Using the Biosure Process – Registered 2006
12. MRS ANNA BINDOFF - Determination of the Effectiveness of Commercially Available Pit Latrine Additives in Reducing Bulk Solids in the Pit – Registered 2005

7.3 Masters (MSc)

PRG/BIO:

1. MS NISHANEE ARJUN - Microbial Quality in Stand Pipes and Ground Tanks - Registered 2004
2. MR DAVID HAWKSWORTH – Environmental Impact of Urine Diversion Toilets - Registered 2005
3. MS LUMKA SALUKAZANA – Effect of Greywater on Plant Growth and Its Long Term Effect on Soil – 2005
4. MS CHARITY MHIKE – Scientific Support for the Design and Operation of Ventilated Improved Pit Latrines – Registered 2005 (2006 registration suspended)
5. MS SHARON NAIDOO - The Use of Fluoresce in Situ Hybridisation (FISH) to Study Bacterial Dynamics In Urine Diversion (UD) Waste - Registered 2005
6. MS URISHA SINGH - Microbiological Detoriation of Water in Ground Tanks and Standpipes in Peri-urban Settlements (Cato Manor) – Registered 2006
7. MS CHIKA NWANERI – Investigating Waste Stabilisation Processes Occurring in VIP’s – Registered 2006

Warwick Institute:

1. SIVANEREN NAIDOO - Coal Gasification : A Business Case for Gas Treatment - Registered 2004

7.4 BSc (Hons) Sci

PRG/BIO:

1. MR MIKEY GUNESS – Effects of Buried Urine Diversion Waste on Soil Quality, Plant Growth and Potential for Leaching to Groundwater - registered 2006
2. MR MLULEKI MNGUNI - Assessment of Exposure to Microbial Hazards During Operation and Maintenance of Urine Diversion (UD) Toilets in the eThekweni Municipal Region - registered 2006
3. MS NATALIE BEARD -

7.5 Masters (MTech)

ML Sultan Technicon:

1. MR MALOSE M MASENYA - Water Pinch at an Integrated Mine and Power Station - Registered 2001.

7.6 MPub Health

eThekwini:

1. MS RENUKA LUTCHMINARAYAN - A comparative study, evaluating the health impacts of ecological sanitation interventions, water and service education programmes, within certain communities in eThekwini District, Durban, South Africa - Registered 2003

7.7 MSoc Sci

eThekwini:

1. MR GURUNATHAN (TEDDY) GOUNDEN - An Evaluation of the Urine Diversion Toilets provided for Rural communities of the eThekwini Municipal Area : Their Use, Management and acceptance - Registered 2005

8. RESEARCH ASSISTANT

1. MS STEPHANIE PILLAY
2. MS NATASHA PILLAY
3. MR SCEBI MKHIZE