

EUROPEAN
CURRICULUM VITAE
FORMAT



JOB REFERENCE NUMBER

PERSONAL INFORMATION

Name **BRIAN LESLIE FAULKNER**
Address **9-10 MELBOURNE STREET, QUAYSIDE, EXETER, DEVON, EX2 4AU, UNITED KINGDOM**
Telephone **+44 (0) 1392 666 953**
Mobile **+44 (0) 7967 399 874**
E-Fax & E-Voice **+44 (0) 20 7681 1084**
E-mail **support@waterconsultant.com**
Web **http://www.waterconsultant.com**

Nationality **British**
Date of birth **31-01-1958**
Gender **Male**

Profession **Consultant Engineering Hydrologist**

WORK EXPERIENCE

- Dates (from – to) **APRIL 2004 – JANUARY 2005**
- Name and address of employer **The World Bank, Washington DC, USA**
- Type of business or sector **Water Resources Masterplanning**
- Occupation or position held **Independent Consultant**
- Main activities and responsibilities **Contract to undertake a reservoir yield and water allocation study for the south-west of Kosovo. The investigations included a detailed bathymetric survey of the 113 Mm³ Radoniqi Reservoir by boat with sonar, river surveys, hydrometric data collection and interpretation, drought statistical analysis, irrigation and potable water demand forecasting, and recommendations for water allocation procedures.**

- Dates (from – to) **JUNE 2004 – AUGUST 2004**
- Name and address of employer **Welsh Development Agency, Cardiff, Wales**
- Type of business or sector **Tidal Flood Defence Masterplanning**
- Occupation or position held **Independent Consultant – Technical Advisor to WDA**
- Main activities and responsibilities **Employed on an ad hoc basis to advise the WDA on sustainable long-term strategies for tidal defence systems in the Newport area. Work included economic cost-benefit appraisals, tidal flood-mapping, defence inspections, scheme feasibility assessments.**

- Dates (from – to) **MARCH 2004**
- Name and address of employer **Dept. of Further Education, Faculty of Civil Engineering, University of Bristol, UK**
- Type of business or sector **Tertiary Level Academic Institution**
- Occupation or position held **Course Tutor – River Engineering, CIWEM Diploma Course**
- Main activities and responsibilities **Preparation and delivery of lecture material on the 1 week module of the Chartered Institute of Water and Environmental Management (CIWEM) Diploma. Teaching content included river engineering concepts, hydraulic modelling, flood defence concepts, organization and supervision of one-day field trip to appraise local constructed flood defence schemes.**

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OCTOBER 2003 - OCTOBER 2004

Thames Region, Environment Agency, Reading, UK

Flood Defence and River Engineering – Framework Agreement for Short Term Consultancy
Project Manager and Short Term Expert

Retained by Thames Region under Framework Contract to provide ad hoc support to the Flood Defence Dept. on flood defence scheme appraisal and modelling.

MAY 2003 – SEPTEMBER 2003

United Nations Mission in Kosovo – Kosovo Trust Agency

Technical and Administrative Restructuring of Public Utilities in the Territory of Kosovo
Consultant to Water & Waste Division - Acting Head Of Water

Supervision of financial and management performance of water supply utilities. Preparation and implementation of Territory wide Management Performance Standard Reporting System. Preparation of Terms of Reference and tender documents for various EU and World Bank funded projects. Assistance to water utilities with regard to debt recovery. Ad hoc duties included Supervisory Board chairmanships, field visits for water supply investigation, financial reporting.

JANUARY 2003 - MAY 2003

Self-employed Independent Consultant

Flood Defence and River Engineering - Various short term studies throughout UK
Project Manager and Technical Consultant

reparation of surveys and data for river and floodplain modelling. Appointment of survey sub-contractors. Statistical assessment of hydrological and meteorological data. Construction of computer based river hydraulic models for flood risk assessment purposes. Bridge hydraulic design and bridge scour studies. Application of GIS mapping to identify floodplains. Formulation of river engineering feasibility works for flood protection. Technical Reporting.

MAY 2002 - DECEMBER 2002

Capita Gwent Consultancy, Newport, Wales

Tidal Defence Masterplanning, City of Newport, Wales
Technical Consultant

Sub-contracted to project manage all aspects relating to topographic survey and GIS mapping of city of Newport, Wales to identify tidal inundation risk zones. Carried out GIS based cadastral identification of all residential and business properties within tidal zones, in accordance with Flood Hazard Research Centre Cost-Benefit procedures. These data incorporated into GIS databases. Flood inundation maps prepared. Flood damage Cost-Benefit economic appraisals carried out, incorporating outline feasibility planning of potential tidal defence works. Prepared and transferred complex spreadsheet based interactive flood-damage cost models for use by Newport city planning department. High level presentations to Newport City and Environment Agency management teams.

JULY 2002 - AUGUST 2002

JBA Consulting Limited, Skipton, UK

R&D in River Engineering and Flood Risk Assessment

Technical Consultant – National Scoping Study on Structure Blockage at High Flows

Sub-contracted by JBA to provide specialist inputs to statistically based Risk Assessment techniques for blockage risk during flood flows, and national procedures for flood blockage assessment and modelling. Part of the EA National R&D Programme, Project No. 10763

APRIL 2001 - MAY 2002

Self-employed Independent Consultant - Contracted to Powys County Council, Wales

River Engineering, Flood Risk Assessment, Bridge Hydraulic Design

Technical Consultant – River & Flood Defence Engineer

Contracted by Dept. of Highways to project manage all aspects of major survey and river modelling exercise to identify most suitable form of new river crossing for town of Machynlleth. Responsible for river hydraulic modelling, GIS floodplain mapping, and testing of viaduct and embankment designs. High level presentations to National Assembly for Wales Transport

Directorate.

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- Main activities and responsibilities

JANUARY 2001 - DECEMBER 2002

Self-employed Independent Consultant

Flood Defence and River Engineering - Various short term studies throughout UK

Project Manager and Technical Consultant

Preparation of surveys and data for river and floodplain modelling. Appointment of survey sub-contractors. Local community liaison and interviews. Statistical assessment of hydrological and meteorological data. Construction of computer based river hydraulic models for flood risk assessment purposes. Flood attenuation reservoir design and modelling. Application of GIS mapping to identify floodplains. Formulation of river engineering feasibility works for flood protection. Technical Reporting.

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SEPTEMBER 2002

Dept. of Further Education, Faculty of Civil Engineering, University of Bristol

Tertiary Level Academic Institution

Course Tutor - Water Resources Planning, CIWEM Diploma Course

Preparation and delivery of lecture material on the 1 week module of the Chartered Institution of Water and Environmental Management (CIWEM) Diploma. Teaching content included collection and checking of hydro-meteorological data, statistical analysis, catchment modelling, resource allocation, reservoir planning and yield analysis. Attendance involved 10 delegates at graduate level.

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JANUARY 2001 - DECEMBER 2002

North West Region, Environment Agency, UK

Flood Defence and River Engineering – Framework Agreement for Short Term Consultancy

Project Manager and Short Term Expert

Retained by North West Region under Framework Contract to provide ad hoc support to the Flood Defence Dept. on flood defence scheme appraisal and modelling.

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JANUARY 2000 - DECEMBER 2000

Self-employed Independent Consultant

Flood Defence and River Engineering - Various short term studies throughout UK

Project Manager and Technical Consultant

Preparation of surveys and data for river and floodplain modelling. Appointment of survey sub-contractors. Local community liaison and interviews. Statistical assessment of hydrological and meteorological data. Construction of computer based river hydraulic models for flood risk assessment purposes. Application of GIS mapping to identify floodplains. Formulation of river engineering feasibility works for flood protection. Technical Reporting.

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OCTOBER 1999 - NOVEMBER 1999

Parkman International, London, UK

Water Supply Expansion Project - Kano State Water Board, Kano, Nigeria

Water Resources Planner

World Bank funded study to provide a Water Resources Masterplan for the city of Kano, N. Nigeria (pop. 7M), with emphasis on urban water supply rehabilitation and expansion. Specific tasks included river flow analysis, data assessment and record extension, allocation studies (including irrigation assessments), reservoir siting and yield analyses. Extensive contribution to the final 20 Year Masterplan Technical Report for Kano State.

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NOVEMBER 1998

Associated Engineering Ltd., Kaduna, Nigeria

Urban Water Supply Engineering – Jimeta-Yola Water Supply Project, Yola, Nigeria

Consultant River Engineer

The consultant was engaged as a Short Term Expert to provide statistical assessments of long-term low flows in the River Benue at Yola, one of the main rivers of Nigeria. Run of river yield assessments and water level computations were provided to assist in the design of proposed new river intakes. The consultant also provided advice on flood studies, and hydraulic analysis of the river to optimise the siting of the proposed intake works.

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JULY 1998 – SEPTEMBER 1998

Environment Agency, Wessex Region, UK

Flood Defence Engineering & Risk Assessment

Project Manager – R&D commission to develop regional Blockage Risk Assessment Manual
Study was commissioned to provide guidance on how to consistently predict and mathematically model debris blockages at river structures. In association with Kennedy and Donkin, the consultant acted as project manager and the river modelling and risk assessment consultant to the project. The output included a regional standard for blockage modelling procedures in Section 105 studies, a sophisticated blockage prediction tool on spreadsheet, and guidance on risk assessment applications. The software was produced and distributed on CD-ROM.

MAY 1998 - JUNE 1998

Tallinn Water Ltd.

Urban Water Supply Engineering and Management, Tallinn, Estonia

Local Project Manager and Technical Consultant

Following earlier work, the consultant was engaged to provide high level support to Tallinn Water in the form of investment management and Cost-Benefit models to assist local staff in the process of long-term investment planning, especially with regard to proposals for de-eutrophication of Lake Ülemiste. The GIS system set-up previously by the consultant was used in the procedures, linked to a raw water cost optimisation model for the water treatment plant also developed by the consultant.

APRIL 1997 - JUNE 1997

Tallinn Water & UK Department for International Development (DfID), Tallinn, Estonia

Water Resources Modelling & Planning, Tallinn, Estonia

Local Project Manager and Technical Consultant

Tallinn Water was provided with specialist support from the consultant in the field of raw water optimisation. This included a review of water quality monitoring networks, introduction and setting up of a GIS system, statistical analysis and mapping of regional water quality data. Key output was the development of a system management model on PC for optimised raw water quality control from a complex bulk water system of reservoirs, rivers and canals.

JULY 1996 - MARCH 1997

Self-employed Independent Consultant

Flood Defence and River Engineering - Various short term studies throughout UK

Project Manager and Technical Consultant

Preparation of surveys and data for river and floodplain modelling. Appointment of survey sub-contractors. Local community liaison and interviews. Statistical assessment of hydrological and meteorological data. Construction of computer based river hydraulic models for flood risk assessment purposes. Application of GIS mapping to identify floodplains. Formulation of river engineering feasibility works for flood protection. Technical Reporting.

MAY 1996 – JUNE 1996

Parkman International, London, UK

Water Supply Expansion, Kebbi State Water Masterplan, Kebbi State Water Board, Nigeria

Environmental Consultant

Consultant on World Bank funded project, undertaking the Environmental Impact Assessment of State wide proposals for increased groundwater abstraction for urban water supply. Particular reference was made to reservoir proposals affecting downstream water supply and agricultural activity. The evaluation of the impacts of increased wastewater from newly supplied towns on downstream river management practices was also considered. New quantitative EIA procedures developed to provide objective comparison of different engineering schemes.

OCTOBER 1995

Faculty of Civil Engineering, University of Bristol, UK

Tertiary Level Academic Institution

Course Tutor – 5 day residential course in Flood Mitigation and Control

Seconded from Parkman Consulting to provide lecturing services on postgraduate level training

course, of up to 10 delegates. Course material included hydraulic modelling techniques, UK flood estimation procedures, and reservoir design concepts.

AUGUST 1995 – SEPTEMBER 1995

Parkman International, London, UK

Water Supply Expansion, Kaduna State Water Supply Masterplan, Kaduna State, Nigeria

Water Resources Planner

Seconded from Parkman Consulting as Short Term Expert for the 20 year water supply Masterplan for Kaduna State, covering 68,000 km² of study area. Responsible for data collection, reservoirs inventory, river and reservoirs modelling, and identification of new water resources, including reservoir yield analyses and economic appraisal. Major contribution to Masterplan Report.

JUNE 1995

Faculty of Civil Engineering, University of Bristol, UK

Tertiary Level Academic Institution

Course Tutor – 5 day residential course in Urban Water Pollution and Control

Seconded from Parkman Consulting to provide lecturing services on postgraduate level training course, of up to 10 delegates. Course material included hydraulic modelling techniques, sewerage overflow modelling and assessment, drainage scheme design for pollution control

SEPTEMBER 1994

Construction T.A. Services Limited., Institution of Civil Engineers, UK

Commercial Training Arm of UK ICE

Course Tutor – 2 day residential course in Culvert Design and Assessment

Seconded from Parkman Consulting to provide lecturing services on postgraduate level training course, of up to 10 delegates. Course material included hydraulic modelling techniques, culvert design principles, maintenance.

JUNE 1994 - APRIL 1996

Parkman Consulting Engineers, Bristol, UK

Consulting Engineers – UK water sector

Associate Director

Responsible for all aspects of business of the water division at the Bristol Profit Centre, including business development, marketing, water team technical direction, conference presentations. Responsible for a team of 10 engineers and support staff

OCTOBER 1991 - MAY 1994

Parkman Consulting Engineers, Bristol, UK

Consulting Engineers – UK water sector

Principal Engineer

Engaged on technical direction of a team of up to 10 engineers working on urban drainage and river engineering commercial projects for numerous private sector and public sector clients. Key tasks included proposal submissions; job cost control, technical supervision and staff management.

JUNE 1989 – SEPTEMBER 1991

National Rivers Authority, Wessex Region, UK

National Agency for River Environmental Protection

Development Control Engineer, later Senior Engineer, Flood Defence Division

Engaged in wide range of operational duties, including hydraulic and hydrological investigations and modelling, statistical analysis of hydro-meteorological data, flood warning duties, flood defence scheme feasibility and design studies. Strategic functions included formulation of catchment planning procedures.

JULY 1987 & JULY 1988

Water Training International, Hadleigh, Hampshire, UK

National Training Centre for UK Water Industry

Course Tutor – 5 day residential course in Sewerage Modelling and Drainage Area Planning

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EDUCATION AND TRAINING

- Dates (from – to)

- Name and type of organization providing education and training

- Principal subjects/occupational skills covered

- Title of qualification awarded

- Level in national classification (if appropriate)

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- Principal subjects/occupational skills covered

- Title of qualification awarded

- Level in national classification (if appropriate)

- Dates (from – to)

Seconded from WRc once per year to provide lecturing services on WTI Diploma and CPD courses. Up to 10 delegates. Course material included sewer flow survey planning, modelling techniques, hydraulic analysis, drainage area planning

JULY 1986 - MAY 1989

Water Research Centre (WRc), Swindon, UK

R&D Centre and commercial consultancy to UK Water Authorities

Project Engineer and Project Leader

Engaged on commercial consultancy in the field of urban drainage and sewerage rehabilitation. Key tasks included hydraulic analysis, urban hydrology, flow monitoring and CCTV data interpretation, sewer hydraulic modelling, scheme feasibility and design. Key outputs included all modelling and management of Drainage Area Plans for towns of Christchurch, Hull, Bath and Merthyr Tydfil, pop. all in excess of 75,000

JULY 1984 – MARCH 1986

Hydrological Research Institute (HRI), Department of Water Affairs, South Africa

National Research Centre providing services to Government

Area Manager for Cape Province Salinisation Control Project

Formulation of policy measures needed to control salinisation of water resources in dryland and irrigated areas, based on earlier research programmes. Work included river and reservoir mathematical model formulation, including work on the SALMAR model. Appointed as member of the National Committee for Mineralization Research 1984-86. Work presented and published as author at The Proceedings of the 2nd National Hydrology Symposium, Pietermaritzburg, September 1985.

APRIL 1983 – MARCH 1986

Hydrological Research Institute (HRI), Department of Water Affairs, South Africa

National Research Centre providing services to Government

Engineering Hydrologist

Engaged on water resources planning and general engineering hydrology studies. Key tasks included statistical analysis of hydro-meteorological data, reservoir yield and scheduling studies, field investigations, water quality instrumentation and monitoring, gauging station calibrations. Setting up of salinity monitoring and control programmes in Cape Province. Work presented at The International Symposium 'Perspectives in Southern Hemisphere Limnology', 1984.

SEPTEMBER 1999 – JULY 2003

Engineering Management Partnership (formerly Joint Board for Engineering Management), umbrella Exam Board in the UK providing syllabus in engineering management to most engineering institutions.

Organisational structures, human resources management, management accounting, financial appraisal methods, marketing.

Diploma in Engineering Management – DipEM – Pass with Distinction

Postgraduate Diploma

[SEPTEMBER 1981 – OCTOBER 1982]

National College of Agricultural Engineering, Silsoe, Cranfield Institute of Technology

Soil Physics, Hydraulics, Hydrology, Irrigation Engineering, Soil Erosion & Control, Land Use Planning, Multivariate Statistics, GIS and Aerial Photography, Economics

Master of Science (M.Sc) Agricultural Engineering – (Soil & Water Engineering & Land Use Planning)

Postgraduate Degree

[SEPTEMBER 1977 – AUGUST 1980]

For more information go to
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 - Title of qualification awarded
- Level in national classification (if appropriate)

School of Oriental and African Studies, University of London

Soil Science, Hydrology, Land Use Planning, Statistics, Aerial Photography, Economics.
3rd Year Field Project – Soil Erosion and Mapping in Lesotho, Lesotho Ministry of Agriculture
Bachelor of Arts (B.A.) Geography & Economics – (Upper Second 2:1)
Degree

PERSONAL SKILLS AND COMPETENCES

*Acquired in the course of life and career
but not necessarily covered by formal
certificates and diplomas.*

MOTHER TONGUE

[ENGLISH]

OTHER LANGUAGES

[FRENCH]

- Reading skills
- Writing skills
- Verbal skills

[good]
[good]
[good]

SOCIAL SKILLS AND COMPETENCES

*Living and working with other people, in
multicultural environments, in positions
where communication is important and
situations where teamwork is essential
(for example culture and sports), etc.*

Born and raised in Africa, thus exposed to multi-cultural environments from the earliest years. I have traveled and worked widely in America, Africa and Europe, and this has given me the ability to socialise with and get on with people from many different backgrounds and cultures.

Since my early 20's I have been regarded as a successful and effective 'teacher', and I have organized and presented numerous professional lectures and training courses in many different aspects of the water industry, including hydraulics, water resources and flood defence. I enjoy the satisfaction and feedback of conveying new knowledge.

I have considerable drive and enthusiasm for all things water!

ORGANISATIONAL SKILLS AND COMPETENCES

*Coordination and administration of
people, projects and budgets; at work, in
voluntary work (for example culture and
sports) and at home, etc.*

Core competencies developed over 20 years of very wide ranging experience in all aspects of the water industry include:

- Flexibility and adaptability in complex engineering projects
- Renowned for developing elegant and innovative solutions to practical problems
- Ability to deliver demanding outputs to timescale and budget
- Excellent technical report writer, with reputation for attention to detail whilst retaining the ability to see the 'big picture' in a highly logical and consistent framework
- Wide ranging organisational skills due to breadth of experience, including national level formulation of policies and procedures, team and project management, commercial consultancy.
- In 1996 I formed a private engineering consultancy www.waterconsultant.com, which continues to practice successfully on behalf of many clients worldwide. This has emphasized the need for excellent business management and staff organisational skills

TECHNICAL SKILLS AND COMPETENCES

*With computers, specific kinds of
equipment, machinery, etc.*

Chartered Water and Environmental Manager (FCIWEM)

Trained and experienced in computer programming, esp. BASIC and FORTRAN.

Highly computer literate, with advanced expert knowledge of EXCEL, and over 10 years constant daily use of Microsoft Office products inc. WORD, ACCESS, PUBLISHER, PROJECT, FRONTPAGE, POWERPOINT

Trained and experienced in the detailed application of StormCAD and WALLRUS sewer modelling software

Trained and experienced in the detailed application of HEC-HMS watershed modelling software
Trained and experienced in the detailed application of MAPINFO and VERTICAL MAPPER GIS software

Trained and experienced in the detailed application of HEC-RAS and ISIS River Modelling software

Trained and experienced in the detailed application of @RISK Risk Management software

ARTISTIC SKILLS AND COMPETENCES

Music, writing, design, etc.

Keen on garden landscaping and design, with several semi-professional garden commissions completed

OTHER SKILLS
AND COMPETENCES
Competences not mentioned above.

Fully qualified Yachtmaster, with Department of Transport Certificate to 'Coastal Skipper' level. Royal Yachting Association (RYA) Certificates include Day Skipper and Coastal Skipper shore-based and sea-going certificates & International Certificate of Competence (ICC). 3700 sea miles logged to date. Currently studying for Ocean Yachtmaster qualification.

Experienced swimmer, diver (BSAC 3rd Class), rock-climber and mountain biker

DRIVING LICENSE(S)

Full English License (25 years)

ADDITIONAL INFORMATION

MEMBERSHIP AND AFFILIATIONS OF PROFESSIONAL BODIES

Fellow of the Association of Consulting Engineers - FConsE

Fellow of the Chartered Institution of Water and Environmental Management – FCIWEM

Member of the Chartered Management Institute - MCMI

Member of the British Hydrological Society

Member of the International Water Association

Faulkner, B.L. (2003) 'Economic Design of Flood-Attenuation Reservoirs for Urban Areas Exploiting Catchment Hydrodynamics'. *Journal of Water and Environmental Management*, Vol.17, no.2, May 2003

Faulkner, B.L., Cleverly, G., Seemendi, S. (2002) 'A Water Resources and Water Quality Management Plan for the City of Tallinn, Estonia'. *Journal of Water and Environmental Management*, Vol.16, no.3, August 2002

Faulkner, B.L. (2001) 'Innovative and Cost-effective Design of Flood Attenuation Reservoirs in Urban Areas Based on the Exploitation of Catchment Runoff Dynamics'. *Novatech 2001 - 4th International Conference on Innovative Technologies in Urban Storm Drainage, Lyon, France, May 2001*

Faulkner, B.L. & Cleverly, G. (2000) 'A Water Resources and Water Quality Management Plan for Water Supply to the City of Tallinn, Estonia'. *ERB2000 - Conference on Monitoring and Modelling Catchment Water Quantity and Quality, Ghent, Belgium, September 2000*.

Faulkner, B.L. (2000) 'The Control of Surface Runoff from New Development - UK National Policy in Need of Review?'. In *Urban Water - An International Journal, Volume 1, no.2, June 2000*

Faulkner, B.L. (1999) 'Construction and Testing of a Cost-effective Computer Hydrological Model for Water Resources Planning'. *International Seminar on Performance of Large and Small Scale Irrigation Schemes in Africa, Abuja, Nigeria, November 1999*

Faulkner, B.L. (1999) 'An Integrated Catchment Water Quality Plan for Water Supply, Tallinn, Estonia'. Poster paper at *British Hydrological National Symposium on Developments in Water Quality Modelling, Imperial College, London, September 1999*

Faulkner, B.L. & Waller, S. (1998) 'A Risk Assessment Approach to the Prediction and Modelling of Structure Blockage During Flood Flows'. *Proceedings of 33rd MAFF Conference of River and Coastal Engineers, Keele, July 1998*

Faulkner, B.L. (1993) 'The Analysis of Flooding and Land Drainage on a Catchment-Wide Basis'. *National Symposium on Catchment Planning and Management, Wallingford, June 1993*

Faulkner, B.L. (1987) 'WASMAP - A New Computer Graphics Package for the Hydraulic Analysis of Drainage Networks'. Poster paper at *1st National Hydrology Symposium, Hull, England, September 1987*

Faulkner, B.L. & Flügel, W.A. (1985) 'Estimation of Future Salinity Levels in the Lower Riet River-Cape Province, including Development of a Reservoir Simulation Model'. *Department of Water Affairs, Occasional Technical Paper D687A, January 1986*

Faulkner, B.L. (1985) 'The Continuous Measurement of Water Quality in a Catchment under Dryland Agriculture, Cape Province'. *Proceedings of the 2nd National Hydrology Symposium, Pietermaritzburg, South Africa, September 1985*

Faulkner, B.L. & Foster, S.F. (1984) 'The Monitoring and Modelling of Salinity in the Cape Province, South Africa'. Poster paper at *International Symposium on Perspectives in Southern Hemisphere Limnology, Wilderness, South Africa, July 1984*