

CURRICULUM VITAE

JO-ANNE THOMAS

Director: Savannah Environmental (Pty) Ltd

Environmental Scientist

SKILLS BASE AND CORE COMPETENCIES

- Ten (10) years experience in the environmental field
- Experienced in project management for a range of projects
- Experienced in the identification and assessment of potential negative environmental impacts and benefits through the review and manipulation of data
- Experienced in the identification of practical and achievable mitigation and management measures and the development of appropriate management plans
- Experienced in the compilation and review of environmental reports in accordance with relevant environmental legislative requirements
- Experienced in the formulation of environmental policies, strategies and guidelines
- Experienced in undertaking public participation processes for a variety of projects
- Experienced in providing strategic environmental advice to a wide variety of clients both in the public and private sectors
- Working knowledge of environmental planning processes, policies, regulatory frameworks and legislation
- Registered Professional Natural Scientist (Registration No 400024/00)

TERTIARY EDUCATION

B.Sc Earth Sciences, *University of the Witwatersrand, Johannesburg, 1993*

B.Sc Honours in Botany, *University of the Witwatersrand, Johannesburg, 1994*

M.Sc in Botany, *University of the Witwatersrand, Johannesburg, 1996*

EMPLOYMENT HISTORY

Nov 2006 – present: Savannah Environmental (Pty) Ltd: Director; Environmental Scientist

Oct 1997 – Oct 2005: Bohlweki Environmental (Pty) Ltd: Environmental Scientist

SELECTED RELEVANT PROJECT EXPERIENCE

- EIA and EMP for the proposed Steelpoort Integration Project, Mpumalanga & Limpopo Provinces (for Eskom Transmission)) – project management & report compilation
- EIA and EMP for the proposed wind energy facility and associated infrastructure at a site within the Western Cape (for Eskom Generation)) – report compilation
- Development of a comprehensive site-specific EMP for the construction and operation of the Eskom Braamhoek Integration Project, Free State and KwaZulu-Natal Provinces - project management & report compilation
- EIA and EMP for the proposed Open Cycle Gas Turbine (OCGT) Power Station and associated 400 kV Transmission lines and substation at Atlantis, Western Cape Province - project management & report compilation
- Environmental Scoping Study for a new coal-fired power station in the Lephalale area, Limpopo Province – report compilation
- Detailed Environmental Scoping Study & public participation for the proposed Capacity Increase Project at Arnot Power Station, Mpumalanga Province
- Numerous EIAs for various electricity sector projects (generation, transmission & distribution) in all nine provinces of South Africa

CURRICULUM VITAE

KAREN JODAS

Director: Savannah Environmental (Pty) Ltd

Environmental Scientist (MSc, Pr.Sci.Nat)

SKILLS BASE AND CORE COMPETENCIES

- Eleven (11) years experience in the environmental management and assessment field
- Nine (9) years experience in Project Management
- Project management of large environmental assessment & environmental management projects
- Experienced in the identification & assessment of potential environmental impacts & benefits
- Experienced in the development of practical & achievable mitigation measures & management plans, and evaluation of risk
- Experienced in the formulation of environmental strategy, policy & guidelines
- Working knowledge of environmental planning processes, policies, regulatory frameworks & legislation
- Experienced in the compilation and review of the reports in accordance with all relevant environmental legislation
- Wide range of experience for public and private sector projects - completed more than 50 environmental projects for a wide variety of Clients
- Experienced in undertaking public participation processes for a variety of projects
- Completed projects in all nine Provinces of South Africa, as well as Zambia and Lesotho
- *Specialisation:* Strategic environmental assessment and advice; Project Management and co-ordination of environmental projects; Environmental Management; Environmental Impact Assessment; Integration of environmental studies and environmental processes into larger engineering-based projects and ensuring compliance to legislation and guidelines; Hydrology and Water Management; General Ecology
- Registered Professional Natural Scientist (Registration No 400106/99)

TERTIARY EDUCATION

B.Sc Earth Sciences, majoring in Geography and Zoology, *Rhodes University, Grahamstown, 1993*

B.Sc Honours in Geography (in Environmental Water Management), *Rhodes University, Grahamstown, 1994*. Major subjects included Water Resources Management, Streams Ecology, Fluvial Geomorphology and Geographic Information Systems.

M.Sc in Geography (Geomorphology), *Rhodes University, Grahamstown, 1996*

Water Quality Management, *Potchefstroom University, 1998*

Environmental Law Course, *Aldo Leopold Institute, 2002*

EMPLOYMENT HISTORY

Nov 2006 – present: Savannah Environmental (Pty) Ltd: Director; Environmental Scientist

Oct 1997 – Oct 2005: Bohlweki Environmental (Pty) Ltd: Associate, Environmental Scientist

SELECTED RELEVANT PROJECT EXPERIENCE

- EIA and EMP for the proposed wind energy facility and associated infrastructure at a site within the Western Cape (Eskom Generation) – project management & report compilation
- Development of a comprehensive site-specific EMP for the construction and operation of the Eskom Braamhoek Integration Project, Free State and KwaZulu-Natal Provinces (Eskom Transmission) - project management & report compilation
- EIA and EMP for the proposed Steelpoort Integration Project, Mpumalanga & Limpopo Provinces (Eskom Transmission) – report compilation
- Environmental Scoping Study for a new coal-fired power station in the Lephalale area, Limpopo Province (Eskom Generation) – report compilation
- Detailed Environmental Scoping Study & public participation for the proposed Capacity Increase Project at Arnot Power Station, Mpumalanga Province (Eskom Generation) - report compilation
- Numerous EIAs for various electricity sector projects (generation, transmission & distribution) in all nine provinces of South Africa

CURRICULUM VITAE

ZAMA DLAMINI

Director: Savannah Environmental (Pty) Ltd
Environmental Consultant

SKILLS BASE AND CORE COMPETENCIES

- Six (6) years experience in the environmental field
- Environmental Impact Assessment and Risk Profiling
- Technical Report Writing
- Geographic Information Systems (GIS)
- Global Positioning System
- Database development and Management
- International Certificate in Public Participation, Mine Water Management Certificate (UFS), Technical Report Writing (SAICE)

TERTIARY EDUCATION

- BA Soc Sci, BA Soc Sci (Honours)
- Masters Environmental Management (Geography)

EMPLOYMENT HISTORY

Current: Savannah Environmental, Woodmead, Johannesburg

May 2007- Dec 2008 : Knight Piésold Consulting Engineers, Rivonia, Johannesburg

April 2003-March 2007 : eThekweni Municipality-Environmental Management
Department

December 2002-March 2003 : CSIR, Environmentek, Pretoria

May-August 2002 (Trainee) : Natal Portland Cement - Environmental Department, KZN

June-August 2001(Internship) : National Ports Authority- Environmental Department, Durban

SELECTED RELEVANT PROJECT EXPERIENCE

- Burnstone Mine Power line, South Africa, Eskom, 2007 – 2008, Environmental Scientists and Project Manager responsible for all the aspects of the project including appointment of specialists during the EIA. Undertook site visits and public participation meetings. Surface and groundwater monitoring as well as dust fallout monitoring for Leeuwkop and Burnstone Mine
- Banro Hydropower project in the DRC, Undertook site visits to undertake alternatives analysis of the environmental viability of different sites for -hydropower options. Responsible for writing up both the site report and scoping reports to be incorporated into the bankable feasibility study. Responsible for all the aspects of the EIS process including appointment of specialists, scoping, attending meetings and liaison with the DRC Mining Ministry and the provincial Governor.
- M2 N17 Link Road, Gauteng, South Africa, SANRAL 2007. Responsible for the impact assessment, risk profiling and fatal flaw analysis report writing for the proposed link road.
- SANRAL, N1-N4 Upgrade, Gauteng, Basic Assessment Process and Audit. Responsible for environmental audit and monitoring of compliance with conditions of approval
- Leeuwkop Platinum Mine in the North West, responsible for baseline monitoring and reporting
- Department of Water Affairs and Forestry Seven Dams Rehabilitation, responsible for the preparation of EMPR for borrow pits and public participation.

CURRICULUM VITAE

JOHN VON MAYER

Savannah Environmental (Pty) Ltd
Consultant

SKILLS BASE AND CORE COMPETENCIES

- Experience with identification and assessment of environmental impacts
- Reports (writing and presentations)
- Understanding of social patterns, problems and forces
- Knowledge of environmental legislation and policies
- Knowledge and experience of public participation process

TERTIARY EDUCATION

University of the Witwatersrand (BSc)

University of Witwatersrand (BSc Hons)

Majors in geology and geography. Honours level geography courses in Environmental Management, Air Pollution Meteorology, Climate Change, Sustainable Development, Geomorphology. Biodiversity Conservation, Environmental Policy.

EMPLOYMENT HISTORY

Current: Savannah Environmental: Junior Environmental Consultant

March – June 2008 Metago Environmental Engineers: Junior Environmental Consultant

SELECTED RELEVANT PROJECT EXPERIENCE

- EIA for the Mokopane Integration Project, Limpopo Province on behalf of Eskom Transmission
- Various EIAs and Scoping reports in different areas, mostly open cast mining projects
- Basic Assessment for a proposed wind monitoring mast on a site near Hopefield, Western Cape Province.
- Basic Assessment for a proposed vehicle and pedestrian bridge and access road near Qoboshane, Eastern Cape Province

CURRICULUM VITAE

Riaan A.J. Robbeson (Pr.Sci.Nat)

Bathusi Environmental Consulting cc

Member

- **SKILLS BASE AND CORE COMPETENCIES**

Environmental Scientist

Ecologist

Botanist

- **TERTIARY EDUCATION**

B.Sc (1990), Main subjects: Botany and Zoology, additional subjects: Chemistry, Genetics and Geography;

B.Sc. (Hons) at the University of Pretoria (1991), Introductory Botany (Distinction), Plant Ecology (Distinction), Plant Physiology, Plant Morphology;

M.Sc. (Plant Ecology) at the University of Pretoria (1994-1998).

- **EMPLOYMENT HISTORY**

1994 – 1997 – University of Pretoria, Research Assistant

1997 – 2000 – EkoInfo cc – Member, Specialist Ecologist, Botanist

2000 – current – BEC – Member, Specialist Consultant, Ecologist, Botanist

- **SELECTED RELEVANT PROJECT EXPERIENCE**

- Ecological Impact Evaluation of the proposed GOPE Mine, Botswana
- Environmental Monitoring Committee (Ecological Division) for the new Medupi Power Station, Lephalale
- Ecological Impact Evaluation of the proposed Epsilon Substation, North-West Province
- Implementation of ecological monitoring programme for the new Gautrain Rail development, Gauteng Province
- Ecological Impact Evaluation of the proposed Greenfields Expansion Project, Mpumalanga Province
- Ecological Impact Evaluation of the proposed Marathon Delta and Boulders Malelane 132kV lines, Mpumalanga Province
- Ecological Impact Assessment of the Matimba – Marang Power lines
- Ecological Impact Assessment of the Matimba – Dinaledi Power lines
- Ecological Impact Assessment of the Mmamabula – Delta Power lines
- Ecological Impact Assessment of the proposed Steelpoort Pumped Storage Scheme
- Ecological Scoping and Impact Evaluations of the proposed Delta Epsilon Power Lines
- Red Data species location and relocation for the Gautrain Development
- Floristic Surveys of the proposed Nu-Largo coal mine
- Floristic Surveys of the proposed Mmamabula coal mine
- Floristic Impact Assessment of the proposed Underground Gasification Concept mining
- Biodiversity Impact Assessment of the Matimba B Power Station
- Biodiversity Scoping assessment of the proposed Matimba Integration
- Floristic sampling of Lula, Mozambique
- Management Guidelines and Impact Assessment of Quelea control activities in wetlands, Free State Province
- Floristic sampling of the Kgalagadi Transfrontier Park, Botswana
- Biodiversity assessment of selected sites in the Okavango Delta for limited lodge development and hunting concessions, Botswana
- Vegetation structure analysis around permanent waterpans in the Chobe National Park, Botswana
- Floristic sampling and development of a GIS remote sensing tool for the assessment of natural degradation of vegetation in the Gauteng Province
- Floristic sampling and development of a GIS remote sensing tool for the assessment of natural degradation of vegetation in the Mpumalanga Province

CURRICULUM VITAE

MEGAN DIAMOND

Endangered Wildlife Trust - Wildlife & Energy Interaction Group (a working group of Endangered Wildlife Trust)

Distribution Co-ordinator, Ornithologist

Conduct investigations, impact assessments and research on wildlife interactions with power line infrastructure and wildlife hazards at airports

QUALIFICATIONS

BSC – Environmental Management, UNISA

EXPERIENCE

The following projects have been completed since November 2006.

1) Wildlife interactions with power lines

Bird Impact Assessment Studies for Power line EIAs:

- Tabor – Botlokwa 132kV power line
- Umfolozi – Empangeni 765kV power line
- Etna – Glockner 400kV power line
- Epsilon Substation and associated 400kV turn-ins
- Leloko Substation and associated 132kV turn-ins
- Malelane substation extension and associated 275kV turn-ins
- Karee substation extension
- Mamogale substation
- Makolokwe substation
- Diloppe substation extension
- Klipspruit substation extension
- Veekraal substation extension
- Substation 15 extension
- Marang to Substation 16 kingbird 88kV power line
- Gamma-Hydra Walkthrough
- Dedisa-Grassridge Walkthrough
- Koster substation extension
- Leseding Dilokong 132kV power line and Dilokong substation extension
- Mattafin 132kV power line
- Khutala Kendal 132kV Integration Network
- Marang-Wildeplats 88kV power line
- Marang-Shaft 15 88kV power line
- Hilltop substation extension
- Ararat-Minpro 88kV power line
- Wilge-Bravo 132kV power line
- Bravo substation
- Phokeng 88kV power line
- Koster-Trident-Shylock 88kV power line
- Shylock substation extension
- Vryburg substation (project ongoing, scoping report completed)

Bird mortality investigations & other studies:

- Special investigation into Weaver faulting on Witpoort 11kV
- Special investigation into Guineafowl faulting on Zandfontein 132kV
- Special investigation into bird mortalities on 88kV distribution line located within the proximity of an abattoir – Phalaborwa
- Special investigation to assess the risk of the refurbished power lines to vultures in the Potchefstroom area
- Special investigation into bird mortalities on 132kV power line on the property Paardeplaats, Lydenburg
- Risk assessment of the distribution power lines occurring on the Venetia Limpopo Nature Reserve, Limpopo Province

CURRICULUM VITAE

JULIUS CORNELIUS CHRISTIAAN PISTORIUS

Archaeologist, Museologist (Museum Scientists), Lecturer, Heritage Guide Trainer and Heritage Management Consultant

QUALIFICATIONS

BA (Archaeology, Anthropology and Psychology) (UP, 1976)
BA (Hons) Archaeology (distinction) (UP, 1979)
MA Archaeology (distinction) (UP, 1985)
D Phil Archaeology (UP, 1989)
Post Graduate Diploma in Museology (Museum Sciences) (UP, 1981)

WORK EXPERIENCE

Museum curator and archaeologist in Rustenburg (1980-1983)
Museum curator and archaeologist in Phalaborwa (1984)
Head and senior museum scientist in the Department of Archaeology, National Cultural History Museum in Pretoria (1988-1989)
Lecturer and senior lecturer in the Department of Anthropology and Archaeology, University of Pretoria (1990-2003)
Independent Archaeologist and Heritage Management Consultant (2003-)

SUMMARY OF EXPERIENCE

Dr Julius CC Pistorius is a qualified archaeologists and cultural heritage management specialist with extensive experience as a university lecturer, museum scientist, researcher and heritage consultant. He has done extensive research on the Late Iron Age Tswana and the Lowveld-Sotho (particularly the Iron Age Malatji metal workers of Phalaborwa) whilst also studying the Ndzudza-Ndebele of Roosenekal and Iron Age communities in the Steelpoort area.

He has published a book on early Tswana settlement in the North-West Province and has completed an unpublished manuscript for a book based on the rise of Malatji metal workings spheres in Phalaborwa during the last 1 200 years. He has written a guide for Eskom's field personnel on heritage management and has published twenty scientific papers in academic journals and several popular articles on archaeology and heritage matters. He has collaborated with various environmental companies in compiling State of the Environmental Reports for Ekurhuleni, Hartebeespoort and a management plan for the Magaliesberg.

Since acting as an independent consultant he has done more than 500 heritage impact assessment reports for numerous environmental companies and has a longstanding working relationship with Eskom, Rio Tinto and Impala Platinum.

He is currently involved with cultural heritage management programs for Rio Tinto (PMC), Rio Tinto EXP (Soutpansberg), Angloplats (Rustenburg), Bafokeng Royal Resources (BRR) and Kelgran and Kudu Granite.

CURRICULUM VITAE

Lourens Martinus du Plessis

MetroGIS (Pty) Ltd.

Director

SKILLS BASE AND CORE COMPETENCIES

- Data Sourcing and Acquisition
- Data Capture
- Data Evaluation
- Data Conversion and Transfer
- GIS Database Development, Implementation and Maintenance
- Spatial Analysis (Visibility, Slope, Aspect, etc.)
- Digital Elevation Modeling
- Terrain Evaluation
- Image Processing
- Visual Impact Assessment and Impact Management
- Environmental Management
- Decision Support Systems Interface Development
- Project Management
- Map Production, Display, Queries and Reporting
- Environmental Sciences Expertise
- Process Development
- Arc/Info, ArcGIS, ArcView and PlanetGIS software
- Various GIS support software packages
- Range of Microsoft standard applications

TERTIARY EDUCATION

Degree: BA (University of Pretoria) Geography and Anthropology (Majors), 1993
Other Subjects: Archaeology, Philosophy and Political Science

EMPLOYMENT HISTORY

GisLAB CC (Geographic Information Systems Laboratory - University of Pretoria)

Period: 4/1990 - 9/1997

Position: Member/Project Manager

GISBS (Geographic Information Systems Business Solutions - Q Data Consulting)

Period: 10/1997 - 10/1999

Position: Project Manager

MetroGIS (Pty) Ltd.

Period: 11/1999 - to date

Position: Director/Project Manager

SELECTED RELEVANT PROJECT EXPERIENCE

- Proposed Atlantis Open Cycle Gas Turbine power station VIA
- Kynoch Gypsum Tailings dam extension VIA
- N1 Western Bypass Shell service station VIA
- Coega regional hazardous waste processing facility VIA
- Robinson Deep landfill extension VIA
- Hazardous waste blending platform VIA
- Mercury-Ferrum-Garona transmission line integration VIA
- Matimba B proposed coal-fired power station VIA
- Concentrating Solar Power (CSP) plant VIA
- Zeus to Mercury transmission line (comparative viewshed analyses)
- Mmamabula (Botswana) transmission line and power station viewshed analyses
- Petronet new multi-products pipeline VIA

CURRICULUM VITAE

NONKA BYKER

MasterQ Research
Research Executive

SKILLS BASE AND CORE COMPETENCIES

- Social Impact Assessments
- Community based training and development facilitation
- Data processing and analysis

TERTIARY EDUCATION

University of Pretoria: B.Psych (Adult Mental Health) (2003)
Institute for People Development: NQF Assessor (2005)

EMPLOYMENT HISTORY

January 2007 – current: MasterQ Research (Research Executive)
July 2004 – December 2006: Independent Consultant
February 1998 – June 2004: Afrosearch (Public Participation consultant)
April 1997 – January 1998: Social Dimension (Administrative Assistant)

SELECTED RELEVANT PROJECT EXPERIENCE

- Social Impact Assessment with cognisance of any potential tourism impacts for the proposed Vryburg 400kV substation (Client: Eskom Generation, Project Manager: Bohlweki Environmental)
- Social Impact Assessment for the proposed Thyspunt Integration Project (Client: Eskom Transmission, Project Manager: Sivest)
- Social Impact Assessment for the proposed Evander South Gold Mine (Client: Harmony Gold Mining Company Limited, Project Manager: Turgis Consulting).
- Baseline social and land use assessment for the proposed Medupi Water Reservoir (Client: Eskom Generation, Project Manager: Savannah Environmental).
- Social Impact Assessment for the proposed Combined Cycle Gas Turbine (CCGT) plant in the Amersfoort area, Mpumalanga Province (Client: Eskom Generation, Project Manager: Bohlweki Environmental)
- Social Impact Assessment for the proposed new regional general and hazardous waste processing facility in the Eastern Cape (Client: Coega Development Corporation/Nelson Mandela Bay Metropolitan Municipality, Project Manager: Bohlweki Environmental)
- Social Impact Assessment for the proposed establishment of a tourist access facility and associated infrastructure in the Greater Limpopo Transfrontier Park (Client: SANParks, Project Manager: Triviron)
- Social Impact Assessment for the proposed New Multi-Product Pipeline (NMPP) northern routes: Jameson Park to Langlaagte and Kendal to Waltloo (Client: Transnet Pipelines, Project Manager: Bohlweki Environmental)
- Social Impact Assessment for the proposed Zonk'izizwe Mixed Use Development in Midrand, Gauteng (Client: Old Mutual Properties, Project Manager: EIMS)
- Social Impact Assessment for the proposed Steelpoort Integration Project (Client: Eskom Generation/Transmission, Project Manager: Savannah Environmental)

CURRICULUM VITAE OF:

Yesodha Melissa Naidoo

Company Name: Iliso Consulting (Pty) Ltd

Name of Staff: Melissa Naidoo (Ms)

Profession: Environmental Scientist

SKILLS BASE AND CORE COMPETENCIES

A junior environmental scientist, enhancing and increasing report writing skills. Impact assessments and conducting the EIA and EMP process according to the new NEMA Regulations

ADDITIONAL COURSES

International Association for Public Participation Practitioners course part 1 (with Antoinette Petersen)

TERTIARY EDUCATION

BA (Hons) (Earth Science), University of Kwa –Zulu Natal	2006
BA Environmental Management and Development, University of Kwa –Zulu Natal	2005

EMPLOYMENT HISTORY

August 2007.

- The Groot Letaba River Water Development Project (GLeWaP) Compiling the EIA Report and assisting in the EMP framework..
- Water Use Allocation Backlog for DWAF – assisted in compiling and assessing the backlog and water use licences.
- Stakeholder database for the Shaft E2 to Rosebank Station- Gautrain.
- GIS, data mapping .

Total Quality Management

July 2006 – June 2007.

- Environmental Audit for Amatola Water – East London
- Tender compiling

SELECTED RELEVANT PROJECT EXPERIENCE

- Experience in compiling of EIA's for various Rand Water, DWAF and DEAT projects.

CURRICULUM VITAE
TERRY BAKER

ILISO Consulting
Technical Director

SKILLS BASE AND CORE COMPETENCIES

Terry is a certified Environmental Assessment Practitioner with eighteen years of experience, which includes Environmental Management, Public Participation and Project Management and Administration.

Environmental Assessments

Involved in environmental aspects of various water related, electricity, airport and roads projects including the Groot Letaba River Development Project EIA and EMP, Eskom 765kV Majuba-Umfolozi and Umfolozi-Empangeni Transmission Power Line EIAs and EMPs, Gautrain Variant Alignment Authorisations and Amendment Applications, Olifants River Water Resources Development Project (de Hoop Dam), Uganda Seven Towns Water Supply and Sanitation Study.

Project Management And Administration

Project management and administration including budget control, progress reports, minutes of meetings and liaison on various projects including the Eskom 765kV Majuba-Umfolozi Transmission Power line EIA, Crocodile West Modelling Study and Reconciliation Strategy, WARMS Data Quality Assurance Project, Olifants River Ecological Water Requirements Assessment and Olifants River CMA Projects.

Public Participation

Involvement in the public or stakeholder participation aspects of several projects including the Gautrain Variant Alignment Authorisation, Waterval Water Quality Management Plan, Olifants River Ecological Reserve and CMA projects, the Wonderboom Airport Runway Extension EIA and the Modder Riet Catchment Management Strategy. Part of the PCMT responsible for Public Participation on the Olifants River Water Resources Development Project.

TERTIARY EDUCATION

MA (Environment and Society) University of Pretoria (with distinction) 2003
BA Hons (Geography with specialisation in Environmental Analysis and Management),
University of Pretoria (with distinction) 1999
Diploma in Bookkeeping, Damelin 1995
BA, Majoring in Development Administration and Geography, UNISA 1993

EMPLOYMENT HISTORY

Iliso Consulting (Pty) Ltd, August 2005 to present, Technical Director
BKS (Pty) Ltd, August 1997 to July 2005, Associate Scientist (since 2002)
Anderson Consulting, Pretoria, November 1995 to January 1997, User Support
Eastern Suburbs Computing, August 1993 to August 1998 *ad hoc*, Office Administrator
Consultburo, March 1989 to March 1993, GIS Operator

SELECTED RELEVANT PROJECT EXPERIENCE

- Contractors Environmental Control Officer for the Eskom 765kV Majuba-Umfolozi Transmission Power Line
- Environmental management Plan for the Eskom 765kV Majuba-Umfolozi Transmission Power Line
- Project Manager for the BKS (Pty) Ltd Eskom Environmental Impact Assessment for the proposed 150km Umfolozi-Empangeni 765kV Transmission line and substation.
- Environmental Impact Assessment for the proposed Eskom 765kV Majuba-Umfolozi Transmission Power Line – Project Manager. (July 2005 – October 2005)

CURRICULUM VITAE

BHAVANI DAYA

ILISO Consulting (Pty) Ltd
Junior Environmental Scientist

SKILLS BASE AND CORE COMPETENCIES

A junior level environmental scientist, improving and increasing report writing skills, impact assessments and conducting the EIA process and public participation process according to the new NEMA Regulations.

TERTIARY EDUCATION

BSocSc (Hons) (Environmental Management), University of Cape Town 2006

BSocSc Geography and Environmental Management, University of KZN 2005

International Association for Public Participation Practitioners Part 1 (with Antoinette Petersen) completed, 2007.

International Association for Public Participation Practitioners Part 2 (with Antoinette Petersen) completed, 2008.

EMPLOYMENT HISTORY

ILISO Consulting (Pty) Ltd, January 2007 to present, Junior Environmental Scientist.

SELECTED RELEVANT PROJECT EXPERIENCE

- Eskom Umfolozi Empangeni 765kV Project – assisted in report writing, editing and public participation meetings, writing the Final Environmental Impact Assessment Report.
- Have assisted in compiling many proposals for Eskom as well as other projects.
- Gautrain Rapid Rail Link assisting in public participation meetings and maintaining stakeholder database.
- Zeekoegat Upgrade and Extension of Wastewater Treatment Works, assisted in public participation meetings and maintaining stakeholder database.
- Molopo Nossob Feasibility Study – assist in the Public Participation and maintaining the Stakeholder database.

CURRICULUM VITAE

KARIN BOWLER

Karin Bowler Enterprises

Facilitator

SKILLS BASE AND CORE COMPETENCIES

- Designing, implementing and managing Communication Strategies on strategic planning projects and also in the environmental and water disciplines.
- Facilitation of strategic, public and focus group meetings.

TERTIARY EDUCATION

BA (Communications and Psychology) UNISA

Certificate Environmental Law & Water Law University of Witwatersrand, Mandela Institute:

Diploma: Negotiation Skills, International Negotiation Academy

Masters: Master of Management University of Witwatersrand Business School, Public and Development Administration Faculty.

EMPLOYMENT HISTORY

2004 – Present: Karin Bowler Enterprises (consultant)

2001 – 2004: pbai (SA) Engineers and environmental consultants (director)

1997 - 2001: ACER (Africa) Environmental Management Consultants (Associate) & Environmental Consultant - Communications Specialist.

1996 – 1997: W A Davidson. (Client Liaison) Responsible for facilitating the process to establish a representative body that has subsequently replaced the Meat Board in South Africa.

1993 – 1996: Transvaal Sugar Limited (TSB). (Communications Officer)

1992 – 1993: Lowveld News (now Mpumalanga News) Editor

1990 - 1992: Three positions held simultaneously:

- 1 Executive Secretary: Nelspruit Chamber of Commerce.
- 2 PRO and Personal Assistant to MD: Van Wettens Breakdown Service.
- 3 Partner and Manager: COM-AD Communication and Advertising.

1989 – 1990: Bureau for Information (Journalist)

SELECTED RELEVANT PROJECT EXPERIENCE

Strategic

- Independent Facilitator for a two day SADC / European Union workshop on the review of a midterm report on the Regional Strategic Assessment Programme for Water Resource Management.
- Independent Facilitator of various meetings for the European Union Department of Labour Final Review process of the Labour Market Skills Development Programme.
- Independent Facilitator for internal workshops for SANParks to establish framework, norms and guidelines for Public Participation and also to set the strategic planning guidelines for SANParks. Also for establishment of Park Forums and intervention processes between opposing stakeholders at various Parks

Environmental

- Independent Facilitator: Eskom Holdings Limited, EIA for the Nuclear 1 project – Key Stakeholder and public meetings.
- Independent Facilitator: Eskom Holdings Limited (Transmission Division). Various Transmission Line and sub-station projects to strengthen the grid across South Africa. Facilitation of public and Key Stakeholder meetings.
- Communication Specialist for Eskom Master Plan Projects – Key Stakeholder Liaison for the Margate, Cape Peninsula, Pretoria, Sandton and Central Regions of Eskom. These projects are current.

- Independent Facilitator for Xstrata Spitzkop Mines: EIA for the Greenfields project. Public meetings and key stakeholder workshops in the Mpumalanga area.
- Independent Facilitator: Greater St Lucia Wetlands Beach Driving and Boat Launching Public Meetings.
- Independent Facilitator on focus group meetings for the Gautrain Projects – variant route alignment EIA process.

CURRICULUM VITAE

JOSEPH MASILELA

Karin Bowler Enterprises

Community Liaison Officer and Administrative Assistant

SKILLS BASE AND CORE COMPETENCIES

- All office administration.
- Managing databases, disseminating project based information.
- Responsible for all community field work; liaising with traditional authorities and maintaining records of this interaction.

TERTIARY EDUCATION

- Fundamental Concepts of Computing : Wits Technikon 2002.
- Birnam Business College August 2007 – Finance and Accounting Diploma

EMPLOYMENT HISTORY

December 2004 - Present: Karin Bowler Enterprises

Community Liaison Officer

- > All office administration..
- > Community liaison work: arranging meetings, facilitating community workshops; meeting with tribal authorities, assisting on all project related work. Assisting with secretarial functions for projects; maintaining attendance registers and databases for all projects. These databasis accommodate up to 1000 individuals at a time on any given project.

March 2004 – Nov 2004:Pbai (SA)

Technical Assistant & Field worker

- > Field work and input of data into Autocad programme.

2002 – Feb 2004: Karin Bowler

Man Friday, Maintenance, Personal assistant

- > Monthly personal administration.
- > Domestic maintenance

1997 – 2001 Building and painting for various contractors

This was Joseph's full time employment after matriculating. He was responsible for mixing cement on building sites and painting completed houses.

SELECTED RELEVANT PROJECT EXPERIENCE

- Greater Western Highveld Municipality Sibambisene Consumer Awareness Campaign; field co-ordinator and assistant to the Social Survey Team
- Eskom Transmission EIA projects; Majuba – Umfolozi and Umfolozi – Empangeni 765kV Transmission Lines
- Fourways Suburban town development EIA – assistance with dissemination of public documents.

CURRICULUM VITAE

JAANA-MARIA BALL

ARCUS GIBB

ENVIRONMENTAL DISCIPLINE LEADER AND DIRECTOR

SKILLS BASE AND CORE COMPETENCIES

- Business administration and development
- Project management and review
- Environmental advisory services and strategic environmental management
- Environmental impact assessment (EIA) and review
- Environmental management programmes (EMP)
- Environmental sensitivity and land-use suitability analyses
- Environmental management programme reports (EMPR) and mining permit applications
- Vegetation studies
- Rehabilitation and landscape plans
- Environmental auditing
- Integrated development planning (IDP)
- Integrated Water Use Licensing Applications and General Authorisations for Water Use
- Public Private Partnership Advisory Services

TERTIARY EDUCATION

- Bachelor of Science in Botany and Zoology: University of Cape Town, 1990
- Bachelor of Science (Honours) in Botany: University of Cape Town, 1991
- Master of Science in Botany (Ecology): University of Cape Town, 1995
- Integrated Environmental Management - Theory and Practice: University of Cape Town, 1996
- Business Management Diploma: Damelin College, 1996
- Project Management (post-graduate course): University of Cape Town, 2001
- Master of Business Administration (MBA): University of Cape Town, 2003 (Full-time) and ESADE (Barcelona, Spain) (Full-time)

EMPLOYMENT HISTORY

- Jan 2008 to Present **ARCUS GIBB** – Discipline Leader and Director: Environmental Services; Organisational Manager Environmental Services North; Director; Support Services (IT, HR, Marketing, Knowledge Management); PPP Advisory Services; ARCUS GIBB Corporate Strategy Roll Out Team
- Oct 2006 to Dec 2007 **ARCUS GIBB** – Discipline Leader and Director: Environmental Services; Director; Support Services (IT, HR, Marketing); PPP Advisory Services; Committee Member: ARCUS GIBB Employment Equity Committee; Head: ARCUS GIBB Corporate Strategy Roll Out Team; Chair: ARCUS GIBB Remuneration Committee; Member: ARCUS GIBB Bursary Committee
- April 2005 to Sept 2006 **ARCUS GIBB** – Director; National Group Manager of Environmental Services Division, Member: ARCUS GIBB Operational Management Team; Member: ARCUS GIBB Employment Equity Committee, PPP Advisory Services
- April 2004 to April 2005 **ARCUS GIBB** – Senior Associate; National Group Manager of Environmental Services Division, Member of Operational Management Team, PPP Advisory Services
- Jan 2003 to April 2004 **UCT and ESADE's (Barcelona, Spain) Business School's Full-time Master of Business Administration (MBA) and Exchange Programme**

April 2002 to **ARCUS GIBB** – Associate; Division Manager of Environmental Services Division
Jan 2003 Cape Town; Business Development Manager, Southern Region

Jan 2000 to **ARCUS GIBB** – Associate; Division Manager Environmental Division Cape Town
Mar 2002

Apr 1998 to **GIBB Africa**– Principal Environmental Scientist
Dec 1999

Feb 1997 to **GIBB Africa**– Environmental Scientist
Mar 1998

SELECTED RELEVANT PROJECT EXPERIENCE

- Project director for the Eskom Bantamsklip EIA and EMP for the proposed Transmission Lines for a conventional nuclear power station and associated infrastructure.
- Project director for the EIA and EMP for the Eskom Pebble Bed Modular Reactor and associated infrastructure in the Western Cape.
- Project manager for the EIA and EMP for the proposed Eskom nuclear power stations and associated infrastructure in the Western Cape.
- Project director for the EIA and EMP for the proposed generation expansion of the Morupule Power Station in Botswana.
- Project director for the compilation of an EMP for the construction and operational phases of Perseus-Gamma and Hydra-Gamma 765 transmission lines, extension to the Hydra Substation, turn-ins of the Beta-Hydra 765 kV transmission power line to Perseus and upgrading of the Perseus Substation (Northern Cape and Free State).
- Team leader for the Eskom R10 billion Braamhoek Pumped Storage Scheme EIA, Public Consultation Process, EMP, Water Licensing Applications, General Authorisation for Water Use and the Department of Minerals and Energy Affairs Applications in the Drakensburg
- Project director as part of the Strategic Advisory Team to the Airports Company South Africa for the proposed Midfield Development at OR Tambo International Airport.
- Project director for the Airports Company South Africa EIA and EMP for the construction of 2 runways and the Basic Assessment for the upgrade of the access roads at the Cape Town International Airport.
- Project director as part of the Strategic Environmental Technical Support Team to the Gauteng Provincial Government for the R20 million Gautrain project.
- Project director for the Strategic Environmental Assessment (SEA) and Integrated Waste Management Plan for the Greater Port Harcourt, Nigeria.
- Project manager for the EIA for the proposed Francistown Water Master Plan – immediate works, Botswana.
- Project director for the EIA, EMP and Public Consultation Process for the proposed Selebi-Phikwe Water Master Plan, Botswana.

CURRICULUM VITAE

REUBEN HYDENRYCH

ARCUS GIBB

ASSOCIATE & SENIOR ENVIRONMENTAL SCIENTIST

SKILLS BASE AND CORE COMPETENCIES

- Project management
- Environmental Impact Assessment (EIA)
- Environmental advisory services and strategic environmental management
- Environmental management programmes (EMP)
- Environmental auditing

TERTIARY EDUCATION

B.L. (Landscape Architecture): University of Pretoria,

M. Phil (Environmental Management): University of Cape Town

Short courses:

Introduction to Public Participation: Environmental Evaluation Unit, 1993

Environmental Management System: Potchefstroom University, 1996

Environmental Law: Potchefstroom University, 1996

Environmental Auditing: Potchefstroom University, 1996

Waste Management: Pretoria Technikon, 1998

Certification Body Assessor Workshop: SA National Accreditation System, 12 – 14 Oct 005

Workshop on the implementation of ISO 17021 (Conformity Assessment: Requirements for bodies performing audit and certification management system) – SA National Accreditation System, 24 Jan 2007

Intermediate Course in Photography: National College of Photography, 2005

Expressive Course in Photography: National College of Photography, 2007

EMPLOYMENT HISTORY

Jun 2008 to **ARCUS GIBB** – Senior Environmental Scientist/Associate
date

Mar 2004 to **Strategic Environmental Focus** – Senior Project Manager, Unit Manager and
May 2008 Project Leader

Aug 2003 to **Strategic Environmental Focus** – Senior Environmental Manager
Feb 2004

Dec 1999 to **Environomics cc** – Senior Consultant
Aug 2003

May 1998 to **Nissan South Africa** – Group Environmental Manager
Nov 1999

Jan 1996 to **Department of Environmental Affairs & Tourism** – Landscape Architect
Apr 1998

Jul 1993 to **Cave Klapwyk and Associates** – Landscape Architect
Dec 1995

SELECTED RELEVANT PROJECT EXPERIENCE

- Senior scientist for the compilation of the Environmental Management Plan (EMP) for the construction and operational phases of the Perseus-Gamma and Hydra-Gamma 765 kV transmission power lines, extension to the Hydra Substation, turn-ins of the Beta-Hydra 765 kV transmission
- Senior scientist for the EIA and EMP for the proposed Morupule Power Station, Botswana.
- Senior scientist for the EIA and EMP for the proposed construction, operation and decommissioning of the Pebble Bed Modular Reactor and associated infrastructure in the Western Cape.
- Senior scientist for the EIA and EMP for the proposed construction, operation and decommissioning of a conventional nuclear power station (Nuclear 1) and associated infrastructure in the Western Cape.
- Project Manager for the EIA for the proposed Hendrina-Prairie-Marathon 400 kV 185 km transmission line between Hendrina and Nelspruit.
- Project Manager for the EIA for the Eskom Kudu Integration project, a proposed 400 km, 400 kV electricity transmission line from Oranjemund (Namibia) to Vredendal (Western Cape).
- Project Manager for the Scoping and EIA for the proposed Eskom Komati Water Scheme pipeline and power line project in Mpumalanga.
- Project manager for the EIA for a proposed 115 km, 1,9 m diameter water pipeline between Vaal Dam and Secunda (Vaal River Eastern Subsystem Augmentation project) for the TCTA.
- Senior scientist for the Strategic Environmental Assessment (SEA) and Integrated Waste Management Plan for the Greater Port Harcourt, Nigeria.
- Senior Scientist as part of the Strategic Environmental Technical Support Team to the Gauteng Provincial Government for the R20m Gautrain Project.
- Senior scientist as part of the Strategic Advisory Team to the Airports Company South Africa for the proposed Midfield Development at OR Tambo International Airport.

CURRICULUM VITAE

MR WILLIAM MULLINS

PERSONAL DETAILS:

Date of Birth: 19 March 1945
Nationality: South African
Current position: Researcher: Conningarth Economists

ACADEMIC QUALIFICATIONS:

1968: University of Free State, UED.
1967: University of Free State, BSc

LANGUAGE SKILLS:

Language	Reading	Speaking	Writing
English	Excellent	Excellent	Excellent
Afrikaans	Excellent	Excellent	Excellent

PROFESSIONAL CAREER:

I have trained as Mathematician and Statistician, after short spell in the industry I became a teacher for a short period. Since 1976 I farmed in Southern KwaZulu Natal and had a lot of experience in farmer and development organisations and eventually served a period as chairman of the Natal Agricultural Union.

As far as development organisations are concerned, I was a member of the Regional Development Committee of Region C (RDAC) and National Regional Development Advisory Committee (NRDAC). I also served from 1993 to 2001 as a board member first of the KwaZulu Development Corporation and its successor the Ithala Development Corporation. I was also for a period member of the KwaZulu Training Trust (KTT) and a board member of the Natal Parks Board.

Currently – Researcher at Conningarth with the following experience:

- Economic Situation in Heatonville - Impact of the 765kV Power Lines (2009)
- CBA Analysis of Further Water Augmentation in the Komati and Extension and Updating of the Current Database of the Komati WMA (2008)
- Comprehensive Determination Study for the Integrated Vaal River System: Upper Vaal Water Management Area (2008)
- CBA Analysis of Further Water Augmentation in the Komati and Extension and Updating of the Current Database of the Komati WMA (2008)
- Feasibility Study of the Potential for Sustainable Water Resources Development in the Molopo-Nossob Watercourse (2008)
- Comprehensive Determination of the Reserve for the Inkomati WMA (2008)
- Mokolo Intermediate Reserve Study (2008)
- Extension of the Joint Maputo River Basin Water Resources Study (Mozambique, Swaziland and South Africa) (2007/08)
- Comprehensive Determination of the Reserve for the Inkomati WMA (2007)
- Groot Letaba River Water Development Project (2007)
- Development of a Draft Water Allocation Plan to guide compulsory licensing in the Mhlatuze Catchment (2007)
- Draft Allocation Plan for Compulsory Licensing in the Mhlatuze Catchment (2007) Draft Allocation Plan for Compulsory Licensing in the Mhlatuze Catchment (2007)
- A Micro and Macro-Economic Evaluation_Durban Port (2007)
- Gamma-Grass Ridge 765KV Transmission Power Lines (x2) and Gamma Sub-Station (2007)

- Joint Maputo River Basin Water Resources Study (Mozambique, Swaziland and South Africa) (2006/07)
- Kromme Seekoei Reserve Determination Study, 2006.
- Compiling a Social Accounting Matrix for the Kingdom of Swaziland, 2006.
- High Confidence Reserve Determination of Letaba and Komati River Catchment: Project Management's Component and Impact of reserve on Socio-Economic Conditions, 2005.
- Macroeconomic Assessment of the Construction Phase of the Durban International Convention Centre Arena Development (2005)
- Water Resources Management Strategy for Mozambique, 2004.
- Investigation into Waste Water Treatment at Ramatec, 2004.
- Assisting with the investigation into the competitiveness of the Swaziland Sugar Industry, 2003.
- Active involvement in the study to determine the Economic Value of Water in the Groot Letaba. WRC project, 2003.
- Costing of the Lesotho Poverty Reduction Strategy Paper, 2003.
- Construction of a Social Accounting Matrix for Lesotho, 2002.
- Uganda Rural Towns Water Supply and Sanitation Study, 2002.
- Value of Water Rights in the Sterk River Irrigation Scheme, 2002.
- Windhoek Aquifer Recharge – Economic Evaluation, 2002.
- Thukela Water Project: Decision Support Phase: Reserve Determination Model – Phase 2, 2002.
- Cost-Benefit Analyses of selected WRC Research Projects – Phase 2, 2001-2002.
- Caprivi Sugar Sector Project, 2001.
- Thukela Water Project: Decision Support Phase: Reserve Determination Model, 2001-2002.
- Social Accounting Matrix for North Eastern KwaZulu-Natal with specific reference to nature tourism, 2000-2001.
- Regional Comparative Advantage of Water Use Study: Using the Orange River as a Case Study, 2000-2001.
- Mozambique Edible Oil Project, 2000.
- Economic Accounting of Water Use, 2000.
- Thukela Water Project Feasibility Study, 1999-2000.
- Cost-Benefit Analyses of selected WRC Research Projects, 1998-2000.
- The Value of water as an Economic Resource in the Vaal River System, 1998-2001.
- Study to address key issues surrounding the realization of the Letaba River Dam Study, 1998.
- Socio-economic impact of the Komati River Basin Development Project with special reference to irrigation agriculture, 1998.
- Komati River Basin Development Project: Review of World Bank Issues Paper, 1996.

OTHER SKILLS:

Excel, MS Word, PowerPoint, Mind Manager.