

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

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

SHAWN JOHNSTON

Sustainable Futures ZA
Process Facilitator

SKILLS BASE AND CORE COMPETENCIES

- Facilitator, Mediator and Trainer
- Planning, Process Design and Conceptualising
- Facilitation, Public and Stakeholder Liaison
- Process Coordination, Problem Solving and Negotiation Skills

TERTIARY EDUCATION

- B.Tech Environmental Management – Cape Peninsula University of Technology, Cape Town
- National Diploma in Horticulture – Cape Technikon, Cape Town
- Certificate in Conflict Resolution and Environmental Mediation – Partnership Lifeskills Centre/Global FutureLinks – Washington DC, USA

EMPLOYMENT HISTORY

- Leadership South Programme
- FutureLinks South Africa
- Common Ground Consulting
- Sustainable Futures ZA

SELECTED RELEVANT PROJECT EXPERIENCE

- **LEAD FACILITATOR, OLIFANTS/DORING RIVER WATER USER ASSOCIATION CAPACITY BUILDING PROJECT. (Current)** Acting as the lead facilitator and co-ordinator of the Olifant/Doring Water User Association Capacity Building for commercial farmers and emerging black farmers.
- **ESKOM PROCESS FACILITATOR, ESKOM ANKERLIG CLOSED CYCLE GAS TURBINE CONVERSION PROJECT AND ASSOCIATED PROJECTS, ATLANTIS – CAPE TOWN (Current)** Responsible for facilitating the public participation process for the Eskom Ankerlig gas turbine conversion from OCGT to CCGT and associated EIA studies relating to Ankerlig Power Station in Atlantis, Cape Town.
- **ESKOM PUBLIC PARTICIPATION PROCESS, ESKOM WIND ENERGY FACILITY, WEST COAST OF SOUTH AFRICA (Current)** Responsible for facilitating the public participation process for the EIA process of the proposed Eskom Wind Energy Facility near Koekenaap in the Matzikama Municipality on the Cape West Coast.
- **PART-TIME LECTURER, WATER AND CONFLICT, INTEGRATED WATER RESOURCES MANAGEMENT PROGRAMME AT THE UNIVERSITY OF THE WESTERN CAPE WESTERN CAPE (UWC) (2006 - Current)** Assisted with establishing the first Water and Conflict Resolution module in the M.Sc Integrated Water Resources Management degree course.

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

Demos A. Dracoulides

Company: DDA

Position: Director

SKILLS BASE AND CORE COMPETENCIES

- Air pollution dispersion modelling and noise modelling
- Development of computerised air pollution emission inventories and databases
- Air pollution in-stack monitoring
- Noise source measurements and monitoring
- Design of noise mitigation measures and procedures

TERTIARY EDUCATION

M.Sc. in Engineering, Energy Studies, University of Cape Town, SA.

Diploma in Mechanical Engineering, Polytechnical School of Engineering, University of Patras, Greece

EMPLOYMENT HISTORY

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| ▪ Consulting Office, Demos Dracoulides & Associates (DDA) | 1996- to date |
| ▪ Environmental Consultant, Paraskevopoulos-Georgiadis LTD, Athens | 1997-1999 |
| ▪ Scientific Officer, Energy Research Institute, Cape Town | 1995-1996 |
| ▪ Research Engineer, Energy Research Institute, Cape Town | 1993-1995 |

SELECTED RELEVANT PROJECT EXPERIENCE

- Compilation of an air pollution emissions inventory for the Greater Cape Town area, part of the Brown Haze study for Cape Town.
- Air Pollution Emission and Dispersion Modelling Study for the Cape Town International Airport.
- NGK Kiln Installation Air Emissions Project: Technical Report on Atmospheric Emissions and Dispersion Modelling for NGK Shuttle Kiln Project at Airport Industria.
- Vissershok Hazardous Waste Site : Air Pollution Emission and Dispersion Modelling Study. City of Cape Town.
- Bellville South Waste Disposal Site: Air Pollution and Odour Study. City of Cape Town.
- Emission Inventory and Dispersion Modelling for the Fugitive Emission from the ENGEN tanks in Milnerton.
- Air Pollution Dispersion Modelling for Emission Reduction Strategies at CALTEX Refinery.
- Helderberg Galvanizing Plant Emission and Air Pollution Impact Study.
- KRANZKOP Factory Acid Storage Accidental Release Study. Air Quality Impact Assessment.
- Atmospheric Dispersion of Gaseous Emissions from a Simulated Accident at a Propellant Storage Facility at SOMCHEM Factory, Somerset West.

- Noise Impact Assessment for the New PPC Cement Factory in Riebeeck West.
- Noise Impact Assessment for the Proposed Bakhuis Bauxite Mine in Suriname.
- Noise Impact Assessment Study for the Proposed Cape Sawmills Renewable Energy Plant.
- Noise Impact Assessment for the Proposed Nelspruit Ring Road.
- Zevenview Estate Noise and Air Pollution Impact Assessment.
- N21 (R300) Cape Town Ring Toll Road: Noise Impact Assessment Study.
- Determination of the Current and Future Ambient Noise Levels Within and On the Perimeter of the Coega Industrial Development Zone (CIDZ). Coega Development Corporation. (3 years).
- Noise Barrier Design for the N.Erythrea high school. ERGON SA, Greece.

CURRICULUM VITAE

JON SMALLIE

Endangered Wildlife Trust

Manager – Wildlife & Energy Interaction Group

SKILLS BASE AND CORE COMPETENCIES

- Avifaunal, and other wildlife interactions with electrical infrastructure

TERTIARY EDUCATION

- 1994-1998 BSC – AGRIC – Wildlife Science (University of Natal, Pietermaritzburg)
- Currently half way through a two year part time MSC Environmental Science at WITS

EMPLOYMENT HISTORY

- Nov 07 – present: Manager of Wildlife & Energy Interaction Group, EWT
- May 04 – Nov 07: Coordinator Transmission Division of Eskom-EWT Strategic Partnership
- Aug 99 – May 04: Eastern cape field coordinator for the SA Crane Working Group

SELECTED RELEVANT PROJECT EXPERIENCE

Bird Impact Assessment Studies for Electrical infrastructure:

Transmission lines:

- Mercury – Perseus 400kV
- Eros – Neptune – Grassridge 400kV
- Kudu-Juno 400kV
- Garona Aries 400kV
- Perseus Hydra 765kV
- Tabor – Witkop 275kV
- Tabor Spencer 400kV
- Moropule Orapa 220kV (Botswana)
- Coega Electrification
- Gamma Grassridge 765kV
- Steelpoort Integration

Distribution lines:

- Kanoneiland 22kV
- Hydra-Gamma 765kV
- Komani-Manzana 132kV
- Rockdale-Middelburg 132kV
- Irenedale 132 kV
- Zandfontein 132kV
- Venulu-Makonde 132 kV
- Spencer-Makonde 132 kV
- Dalkeith-Jackal Creek 132kV
- Glen Austin 88kV
- Bulgerivier 132kV
- Ottawa-Tongaat 132kV
- Disselfontein 132kV
- Voorspoed Mine 132kV
- Wonderfontein 132kV
- Kabokweni Hlau Hlau 132kV
- Hazyview Kiepersol 132kV
- Mayfern Delta 132kV
- VAAL Vresap 88kV
- Arthursview Modderkuil 88kV
- Orapa, AK6, Lethakane substations and 66kV lines (Botswana)
- Dagbreek Hermon 66kV
- Uitkoms Majuba 88kV

- Pilanesberg Spitskop 132kV
- Qumbu PG Bison 132kV
- Louis Trichardt Venetia 132kV
- Rockdale Middelburg Ferrochrome 132kV

Generation projects:

- Eskom Concentrated Solar Power Plant
- West Coast Wind Energy Facility

Substations:

- Nooitgedacht distribution
- Pilanesberg distribution
- Gamma Transmission

Risk Assessments on existing power lines:

- Hydra-Droerivier 1,2 & 3 – 400kV
- Hydra-Poseidon 1,2 – 400kV
- Butterworth – Ncora 66kV
- Nieu-Bethesda 22kV
- Maclear 22kV (Joelshoek Valley Project)
- Wodehouse 22kV (Dordrecht district)
- Burgersdorp - Aliwal North - Jamestown 22kV
- Cradock 22kV
- Colesberg area 22kV
- Loxton self build 11kV
- Kanoneiland 22kV
- Stutterheim Municipality 22kV
- Majuba-Venus 400kV
- Chivelston-Mersey 400kV
- Marathon-Prairie 275kV
- Delphi-Neptune 400kV
- Ingagane – Bloukrans 275kV
- Ingagane – Danskraal 275kV
- Danskraal – Bloukrans 275kV

CURRICULUM VITAE

LIEZL COETZEE

Southern Hemisphere

Senior Consultant

SKILLS BASE AND CORE COMPETENCIES

- social impact assessments
- community consultation
- workshop facilitation
- community social profiles

TERTIARY EDUCATION

Date	Institution	Course/ Degree
1994-1999	B.A. Degree (Humanities) (cum laude)	Rand Afrikaans University
1994-1999	B.Sc. Degree (Mathematical Sciences)	Rand Afrikaans University
1999	Introduction to ArcView	GIMS
2001	Social Impact Assessments	IAIA
2003	Introduction to Public Participation	IAP2
2003	Introduction to Corporate Social Responsibility	World Bank Institute
2006 - Current	MPhil Anthropology: Organisations & Public Cultures	University of Stellenbosch

EMPLOYMENT HISTORY

Date	Organisation	Position
October 2007 - current	Southern Hemisphere Consultants	Senior Consultant
February 2005 – September 2007	Independent Consultant conducting social research	
September 2000 to January 2004:	Golder Associates Africa (Pty) Ltd (Incorporated former WMB & LVA))	Social Scientist/ Consultant
Sept - Nov 2003	Rand Afrikaans University (University of Johannesburg)	Part Time Lecturer in Development Studies
March 2000 to Aug 2000	Alive magazine, Cairo, Egypt	Journalist
Jan 1999 to Dec 1999	Rand Afrikaans University (University of Johannesburg)	Tutor and assistant in Development Studies
Jan 1999 to Dec1999	Temporary freelance consultation in development field.	

SELECTED RELEVANT PROJECT EXPERIENCE

- **Eskom OCGT Plant:** Social Impact Assessment and recommendations on future consultation strategy with local communities on issues of employment and procurement opportunities. (Ninham Shand)
- **Namdeb Sperrgebiet:** Assist with socio-economic baseline study, social impact assessment and social management plan for Namdeb Diamond Corporation 's landbased operations in the Sperrgebiet. (Mine Social Sustainability)
- **Wild Coast Toll Road:** Social Screening Study of alternative alignments for a section of the proposed Wild Coast Toll Road between Mthata and Port Shepstone. (CCA Environmental)
- **Ceres Golf Course Application:** Social Scoping and SIA study for Ceres Golf Estate and Hotel Development. (Ninham Shand)
- **Evaluation of Social Impacts of EPWP projects in SANParks:** Desktop Evaluation of EPWP projects, including Poverty Alleviation and Coast care (DEAT), Working for Water (DWAF) and Working for Wetlands (SANBI) projects. (SANParks)
- **Levendal SIA:** Social Impact Assessment for Levendal Residential Development near Paarl. (SRK)

CURRICULUM VITAE

TIMOTHY HART

UCT Archaeology, Archaeology Contracts Office (ACO)

Archaeologist and General Heritage Practitioner

SKILLS BASE AND CORE COMPETENCIES

- Twenty (20) years experience in the archaeology and heritage specialist field
- Experienced in undertaking Archaeological assessments, Heritage Impact Assessments, Heritage Conservation Planning. ASAPA accredited for pre-colonial archaeology, colonial period, rock art, industrial archaeology, coastal archaeology, grave relocation
- Led and completed over 400 projects throughout the country ranging from minor assessments to participating as a specialist in a number of substantial EIA's as well as international research projects
- Professional member (no 50) Association of Southern African Professional Archaeologists (ASAPA)
- Principal Investigator, cultural resources management section (ASAPA)
- Professional member in specialist and generalist categories Association of Heritage Assessment Professionals
- Founder member of Association of Heritage Assessment Professionals
- Founder member and secretary CRM section ASAPA (1995)
- Council member (1995 – 2000) ASAPA
- Built environment and landscape committee member (2004-2007) Heritage Western Cape (provincial compliance authority for heritage)
- Honorary member of 2 historical associations.

TERTIARY EDUCATION

- Bachelor of Arts in Archaeology and Psychology
- BA Honours in archaeology
- MA in Archaeology

SELECTED RELEVANT PROJECT EXPERIENCE

- Development of a heritage management plan and ongoing annual mitigation for the De Beers Namaqualand Mines Division
- Heritage management for Namakwa Sands and other west coast and Northern Cape mining firms
- Specialist consultant – Eskom's Kudu Integration project (identifying transmission line routes across Namaqualand)
- Specialist consultant – Eskom's Atlantis Open Cycle Gas Turbine project
- Specialist consultant – Nuclear 1
- Specialist consultant - PBMR
- Contracted by University of Stanford to set up and participate in Duinefontein Archaeological Research project, Koeberg Nuclear Power Station
- Specialist consultant – Department of Water Affairs raising of Clanwilliam Dam project
- Specialist consultant to De Beers Namaqualand Mines (multiple projects since 1995)

CURRICULUM VITAE

NICHOLAS ALEXANDER HELME

Trading as : Nick Helme Botanical Surveys
Sole Proprietor

SKILLS BASE AND CORE COMPETENCIES

- 18 years of experience as a field botanist in the Western and Northern Cape
- Specialising in Fynbos, Renosterveld and Succulent Karoo biomes
- 10 years experience as a specialist botanical consultant
- Over 750 botanical assessments undertaken for sites ranging from the Orange River mouth to Plettenberg Bay
- Over 60 full Impact Assessments completed, for a portion of the above projects
- Contributing author to numerous key publications in the field, including the SA Vegetation Map (2006), SA Red Data Book of Plants (in prep); Fynbos Forum Ecosystem Guidelines for Environmental Assessment in the Western Cape (2005); Biodiversity Best Practice Guidelines for Potato farming in the Western Cape (2007).

TERTIARY EDUCATION

BSC (Hons) (Botany) – University of Cape Town; 1990

EMPLOYMENT HISTORY

Sole Proprietor of Nick Helme Botanical Surveys : 2001 – present

Botanical Specialist for Doug Jeffery Environmental Consultants: 1998 – 2001

Botanist for TREX (Bolivia; Cameroon, Madagascar): 1993 - 1997

Botanical Society of South Africa Conservation Researcher : 1990

SELECTED RELEVANT PROJECT EXPERIENCE

- Scoping and Impact assessment for proposed 400km Eskom Kudu 400kV powerline from Alexander Bay to Vredendal (SEFSA 2006)
- Assessment of new Eskom OCGT Atlantis site (Eskom 2006)
- Scoping assessment for new Briers substation (Eskom 2006)
- Scoping and Impact Assessment of new Eskom OCGT Mossel Bay site (Ninham Shand 2005)
- Assessment for new Eskom powerline Swellendam – Riviersonderend (SHE Cape 2006)
- Assessment for new Eskom powerline Bredasdorp – Struisbaai (SHE Cape 2004)
- Eskom powerline assessment Botriver – Hermanus (Eskom 2004)
- Assessment of expansion of Eskom Proteus substation (Eyethu Engineers 2004)
- Eskom powerline assessment Bredasdorp – Struisbaai (CK Environmental 2004)
- Assessment for new Eskom Omega substation (Eyethu Engineers 2004)
- Vegetation survey of Bacchus substation extension for Eskom (Doug Jeffery Environmental Consultants 1999, and for Eyethu Engineers 2004)
- Vegetation survey for Eskom Cape Strengthening Program from Luckhoff to Cape Town (Doug Jeffery Environmental Consultants 2001).