

CURRICULUM VITAE

David Hoare

David Hoare Consulting

Botanist / Ecologist

SKILLS BASE AND CORE COMPETENCIES

- Botanical researcher in projects involving the description of terrestrial and coastal ecosystems.
- Broad expertise in the ecology and conservation of grasslands, wetlands, fynbos and coastal ecosystems. Project expertise includes baseline biological surveys for the mining, forestry and utility industries, national vegetation mapping programmes for government and research organisations, natural resource management using satellite remote sensing and aerial photography, environmental management and project management (research projects).
- Botanical Specialist responsible for vegetation inventories, vegetation, habitat and land-use mapping, threatened plant species survey, alien species survey.
- Professional Natural Scientist: South African Council for Natural Scientific Professions (2005) Reg. no. 400221/05.
- Professional member: South African Institute of Ecologists and Environmental Scientists (2001

TERTIARY EDUCATION

B.Sc (Botany and Zoology) Rhodes University;

B.Sc Honours (Botany) Rhodes University,

M.Sc. (Botany) University of Pretoria

PhD (in progress) – Nelson Mandela Metropolitan University, Port Elizabeth

SELECTED RELEVANT PROJECT EXPERIENCE

- Ecological consultant since 1995. Author of 13 scientific publications, 6 technical scientific reports, 15 scientific conference presentations and over 130 specialist consulting reports. Attended 15 national and international congresses & 5 expert workshops, lectured vegetation science at 2 universities and referee for 2 international journals.
- Wide experience in botanical studies within grassland, savanna and fynbos, as well as riparian, coastal and wetland vegetation. Senior author on Thicket Biome chapter, second author on Grassland Biome chapter and co-author on three other chapters in recent publication on vegetation of South Africa (SANBI). Also compiled map of the Eastern Cape vegetation for the same publication.

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

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

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

David John Halkett

ACO Associates cc

Director (Principal investigator)

SKILLS BASE AND CORE COMPETENCIES

- *David Halkett is a registered professional archaeologist (principal investigator level) with 22 years of working experience in heritage impact assessment, conservation and archaeological research. He has worked in a wide variety of contexts having participated in over 800 heritage projects ranging from impact assessment to mitigation of archaeological sites in suburban, rural and industrial situations. David Halkett's experience has led to his participation as an advisor to the National Monuments Council before 2000, a member of Heritage Western Cape regulatory committee for Archaeology, Palaeontology and Meteorites (APM), SAQUA and recently a forensic consultant to the NPA. He regularly leads field projects on behalf of other research organisations. Having run the Archaeology Contracts Office at the University of Cape Town for 22 years, Dave Halkett is now also a director of the recently established ACO Associates cc. David is a long standing member of the Association of Professional Archaeologists (ASAPA) and an accredited Principal Investigator of the CRM section.*

TERTIARY EDUCATION

- *MA University of Cape Town 1992,*
- *BA hons University of Cape Town 1982*
- *BA University of Cape Town , 1980.*

EMPLOYMENT HISTORY

- *2008 - present - Director of ACO Associates cc.*
- *1988 - present - Principal Investigator, Archaeology Contracts Office, UCT*
- *2007 - Forensic consultant: Missing Persons Unit: National Prosecuting Authority*
- *1997 - Junior Research Officer, Palaeoanthropology Research Unit, University of the Witwatersrand (part time appt.)*
- *1984 - Part time research assistant, Spatial Archaeology Research Unit, UCT*

SELECTED RELEVANT PROJECT EXPERIENCE

- *Halkett, D. 2009. An assessment of the impacts on heritage of the proposed 66kv overhead powerline between the towns of Clanwilliam and Graafwater. Prepared for SHE Cape Environmental CC. Prepared by ACO Associates cc.*
- *Webley, L., Halkett, D. and Hart, T. 2009. Heritage impact assessment of a proposed wind energy facility to be situated on portions of farms Arolsen 69, Farm 148, Farm 148/1; Roodraai 146, Baviaans Krans 151, Baviaans Krantz 151/2, Klip Fonteyn 150/2, Roberts Kraal 281, Zure Kop 74/1, Zure Kop 74/2, Van Wyks Kraal 73, Van Wyks Kraal 73/2 and Van Wyks Kraal 73/3 in the Cookhouse District, eastern Cape. Prepared for Savannah Environmental (Pty) Ltd on behalf of African Clean Energy Developments (Pty) Ltd. Prepared by ACO Associates cc.*

CURRICULUM VITAE
IAIN PATON

P E R S O N A L D E T A I L S

SURNAME: Paton
FIRST NAMES: Iain Bruce
ADDRESS: PO Box 964, Knysna, 6570
RESIDENTIAL ADDRESS: 5 Brooklyn Close, Hunters Estate, Knysna
HOME TELEPHONE: 044-3840649
WORK TELEPHONE: 044-3820502
CELLULAR: 082-7827793
FAX: 044-3820503
E-MAIL: iain@outeniqua.co.za
DATE OF BIRTH: 28 August 1973
PLACE OF BIRTH: Harare, Zimbabwe
NATIONALITY: South African – British Dual Citizen
SA I.D. NO.: 7308286179080
MARITAL STATUS: Married, three children.

S E C O N D A R Y E D U C A T I O N (1 9 8 6 - 1 9 9 0)

Woodridge College, Port Elizabeth, South Africa

1990: Matriculation exemption, all subjects on Higher Grade

T E R T I A R Y E D U C A T I O N (1 9 9 1 - 1 9 9 4)

Rhodes University, Grahamstown, South Africa

1993: Bachelor of Science Degree in Geology and Economics

1994: Bachelor of Science with Honours Degree in Geology

W O R K E X P E R I E N C E

Western Areas Gold Mining Co. Ltd. (JCI Ltd), South Africa: 1995-97

- ♦ Mine Geologist - 1995 - 1996
- ♦ Senior Geologist - 1996 - 1997

Halliburton Energy Services (Drilling Systems), Aberdeen, Scotland: 1997-98

- ♦ Logging Geologist - 1997 - 1998

Progex: Knysna, South Africa: 2001-2006

- ♦ Construction Site Manager – 2001-2006

Sivakhula Lab cc: Knysna, South Africa: 2006-2008

- ♦ Engineering Geologist & Managing Member (since 2007)

Outeniqua Geotechnical Services cc (Formerly Sivakhula Lab cc): Knysna, South Africa: 2008-Present

- ♦ Engineering Geologist & Managing Member

Professional Affiliations:

2007 – Professional Natural Scientist (South African Council for Natural and Scientific Professions)

2008 – Associate member of SAICE (South African Institute of Civil Engineering)

2009 – Member of SAIEG (South African Institute of Engineering & Environmental Geologists)

CURRICULUM VITAE

Morné de Jager

M2 Environmental Connections cc

PO Box 2047

Garsfontein East

0060

Tel : 012 993 2165

Fax : 086 621 0292

Mobile : 082 565 4059

Founding member of the Closed Corporation

SKILLS BASE AND CORE COMPETENCIES

- Water monitoring programme design,
- Water Quality Analysis and Modelling,
- Environmental Auditing,
- Noise Monitoring, Modelling and Control,
- Biological Monitoring,
- Environmental Impact Assessment and Management,
- IT skills (software as well as hardware),
- Conflict resolution and stakeholder facilitation.

TERTIARY EDUCATION

B.Ing (Chem) (University of Pretoria)

EMPLOYMENT HISTORY

- Department of Water Affairs and Forestry (1998 – 2001; Pollution Control Officer)
- EcoSat (2001 – 2002; Environmental Monitoring, Control and Management)
- MENCO (2002 – current; See above)

SELECTED RELEVANT PROJECT EXPERIENCE

- Noise Impact Assessment for Skychrome (Pty) Ltd (A Ferro-chrome mine),
- Noise Impact Assessment for Mooinooi Chrome Mine (Western Chrome Mines),
- Noise Impact Assessment for Buffelsfontein East and West (Western Chrome Mines),
- Noise Impact Assessment for Elandsdrift (Sylvania),
- Noise Impact Assessment for Jagdlust Chrome Mine (Eastern Chrome Mines),
- Noise Impact Assessment Apollo Brick (Pty) Ltd (Clay mine and brick manufacturer).

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

TONY BARBOUR

Environmental Consultant and Researcher

SKILLS BASE AND CORE COMPETENCIES

- Eighteen (18) years experience in the field of environmental management
- Undertaken in the region of 20 SIAs throughout South Africa
- Author of the Guidelines for Social Impact Assessments for EIAs commissioned by the Department of Environmental Affairs and Development Planning (DEA&DP) in the Western Cape
- Developed SIA Guidelines for the Department of Water Affairs and Forestry
- Work experience in South Africa, Namibia, Botswana, Zambia, Lesotho and Swaziland

TERTIARY EDUCATION

BSc (Geology and Economics) Rhodes, 1984

BEcon (Hons) Rhodes, 1985

MSc (Environmental Science) University of Cape Town, 1992

EMPLOYMENT HISTORY

Private Consultant: November 2004-current.

University of Cape Town: August 1996-October 2004

Environmental Evaluation Unit (EEU), University of Cape Town. Senior Environmental Consultant and Researcher.

1991-1996: Ninham Shand Consulting (Cape Town). Senior Environmental Scientist.

1996-August 2000: Steffen, Robertson and Kirsten (SRK Consulting) – Associate Director, Manager Environmental Section, SRK Consulting, Cape Town.

Lecturing: 1990-current

- University of Cape Town: Environmental Economics, Social Impact Assessment, Strategic Environmental Assessment and Environmental Impact Assessment.
- Cape Technikon: Environmental Economics and Waste Management.
- Peninsula Technikon: Environmental Economics and Waste Management.

SELECTED RELEVANT PROJECT EXPERIENCE

- Social Assessment for Darling Wind Farm, Western Cape, South Africa (2001 – 2002)
- Portnet Saldanha, Western Cape, SA. EIA for the expansion of a bulk iron ore export facility at the Port of Saldanha (2000)
- Social Assessment for road up-grade between Gansbaai and Bredadorp, Southern Cape (2005).
- Social Assessment Zeekoevlei Golf Estate, Somerset West, Western Cape (2005)
- Social Assessment Silwersand Golf and Resort Estate, Robertson, Western Cape (2003).
- Social Assessment for Valkenberg East Site, Cape Town (2003)
- Development of Social Impact Assessment Guidelines for the Western Cape DEA&DP (2006)
- Social Assessment for Riversonderend Road By-pass (1991)
- Internal Review Consultant for Golder Associates on Namakwa Sands Heavy Mineral Mining EIA, Western Cape (current)
- Review of EIA for Zeekoevlei Golf Course Estate, Somerset West, Western Cape (2005);
- Review of EIA for Oostenberg Waste Transfer Station, Brackenfell, Western Cape (2004);
- Review of EIA for N7 Road Up-grade, Clanwilliam, Western Cape (2002)

CURRICULUM VITAE

Andrew Jenkins

AVISENSE Consulting cc

Owner

SKILLS BASE AND CORE COMPETENCIES

- >20 years as a bird specialist in EIA work in southern Africa, with particular emphasis on power line, wind farm and river impoundment projects, particular expertise in raptors, bustards and cranes, and particular experience in the environments of the Western Cape and Lesotho.
- >20 years as a research biologist, with particular emphasis on raptor (falcon) ecology and conservation and the biology and mitigation of collision mortality in large terrestrial birds.

TERTIARY EDUCATION

1989-1998: MSc upgraded to PhD, Percy FitzPatrick Institute, University of Cape Town. Thesis title: *Behavioural ecology of Peregrine and Lanner Falcons in South Africa.*

1988: BSc Hons in Zoology, University of Natal, Pietermaritzburg (with distinction). Project title: *Bill morphology, feeding ecology and niche partitioning in six sympatric species of granivorous birds.*

1984-1987: BSc, University of Natal, Pietermaritzburg, majoring in Zoology and African & Experimental Zoology.

EMPLOYMENT HISTORY

September 2007-March 2009: Employed as a research scientist by the Wildlife & Energy Interaction Group of the Endangered Wildlife Trust, tasked with (i) consolidating and strengthening existing research, and initiating new research initiatives, in the field of wildlife/power line interactions, and particularly in the mitigation of bird mortalities associated with electrical infrastructure, and (ii) doing in-depth EIA assessments for major proposed developments in energy infrastructure. Designed the WEIG research programme for 2008-2011, focusing on the mitigation of bird:power line collisions. Major EIA contracts completed during this time include avifaunal studies of Eskom Generation's proposed Wind Energy Facility in the Vredendal area, Western Cape, and Macquarie's proposed Hopefield Wind Energy Facility, Hopefield, Western Cape.

March 2002-February 2007: Employed as research scientist at FitzPatrick Institute, UCT from March 2002, managing the *Western Cape Raptor Research Programme*, and overseeing various raptor-based projects, including a collaboration with electricity supplier Eskom to reduce the incidence of line faults associated with large eagle nests on electricity transmission pylons in the Karoo, and a collaboration with the Critical Ecosystem Partnership Fund to investigate the value of the Black Harrier as a surrogate species in the conservation of lowland Fynbos and Renosterveld. Also conducted work on the suitability of Barn Owls as bio-control agents for rodents in a wheat-farming area, and the role of African Fish Eagles and other raptors as indicators of agrochemical contamination in an area of intensive viticulture, and organized and led a survey of the Taita Falcon population of the Mpumalanga escarpment. During this period, co-supervised one MSc thesis, three MSc Conservation Biology mini-theses, and two BSc Hons projects.

November 1998-December 2000: Employed as a postgraduate research fellow at the FitzPatrick Institute, UCT, working on various projects concerning the biology of predation. Also co-supervised the two Masters mini-theses in Conservation Biology, and oversaw the experiential training year of a Cape Technikon Nature Conservation student.