

CURRICULUM VITAE

JO-ANNE THOMAS

Director : Savannah Environmental (Pty) Ltd

Environmental Scientist (MSc, Pr.Sci.Nat)

SKILLS BASE AND CORE COMPETENCIES

- Project management for a range of projects
- Identification and assessment of potential negative environmental impacts and benefits through the review and manipulation of data and specialist studies
- Identification of practical and achievable mitigation and management measures and the development of appropriate management plans
- Compilation of environmental reports in accordance with relevant environmental legislative requirements
- External and peer review of environmental reports & compliance monitoring
- Formulation of environmental policies, strategies and guidelines
- Public participation processes for a variety of projects
- 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

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
- October 1997 - November 2005: Bohlweki Environmental (Pty) Ltd: Senior Environmental Scientist; Environmental Management and Project Management

SELECTED RELEVANT PROJECT EXPERIENCE

- Project manager for the EIA and EMP for the proposed Mokopane Integration Project, Limpopo Province (for Eskom Transmission)
- Project manager for the proposed transmission lines from the Koeberg-2 Nuclear Power Station site, Western Cape Province (for Eskom Transmission)
- Project manager for the proposed Tshwane strengthening project, Phase 1, Gauteng Province (for Eskom Transmission)
- Project manager for the EIA and EMP for the proposed Kyalami Strengthening Project, Gauteng Province (for Eskom Transmission)
- Project manager for the EIA and EMP for the proposed Steelpoort Integration Project, Limpopo Province (for Eskom Transmission)
- Project manager for the EIA and EMP for the proposed conversion of the existing Open Cycle Gas Turbine (OCGT) Ankerlig Power Station (located in Atlantis Industria) to a Combined Cycle Gas Turbine (CCGT) power station, and the associated 400 kV transmission power line between Ankerlig Power Station and the Omega Substation (for Eskom Generation)

- EIA and EMP for the proposed conversion of the existing Open Cycle Gas Turbine (OCGT) Gourikwa Power Station (located near Mossel Bay) to a Combined Cycle Gas Turbine (CCGT) power station, and the associated 400 kV transmission power line between Gourikwa Power Station and the Proteus Substation (for Eskom Generation)
- EIA and EMP for the proposed wind energy facility and associated infrastructure at a site within the Western Cape (for Eskom Generation)
- EIA and EMP for the proposed wind energy facility and associated infrastructure at a site near Hopefield, Western Cape Province (for Umoya Energy)
- Basic Assessment for proposed wind monitoring masts on a site near Beaufort West, Western Cape Province (for Umoya Energy)
- Basic Assessment for proposed wind monitoring masts on a site near Laingsburg, Western Cape Province (for Umoya Energy)

CURRICULUM VITAE

TAMMY KRUGER

Environmental Consultant: Savannah Environmental (Pty) Ltd

Environmental Scientist (MSc)

SKILLS BASE AND CORE COMPETENCIES

- Project management
- Identification and assessment of potential negative environmental impacts and benefits through the review and manipulation of data and specialist studies
- Identification of practical and achievable mitigation and management measures and the development of appropriate management plans
- Compilation of environmental reports in accordance with relevant environmental legislative requirements
- External and peer review of environmental reports & compliance monitoring
- Formulation of environmental policies, strategies and guidelines
- Public participation processes for a variety of projects
- 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

EDUCATION AND PROFESSIONAL STATUS

- B.Sc Zoology, University of the Witwatersrand, Johannesburg, 2004
- B.Sc Honours in Zoology, University of the Witwatersrand, Johannesburg, 2005
- M.Sc in Environmental Science, University of the Witwatersrand, Johannesburg, 2010

EMPLOYMENT

- Current: Environmental Consultant - Savannah Environmental (Pty) Ltd - Environmental Consultant
- October 2007 - September 2009: Prime Resources (Pty) Ltd - Environmental Consultant
- November 2006 - April 2007: Endangered Wildlife Trust - Field Researcher

KEY RESPONSIBILITIES

- Conducting and management of Environmental Impact Assessments (EIAs) and other environmental investigations according to the current legislation
- Interpreting and applying Environmental Legislation
- Development, planning, co-ordinating and facilitating Public Participation Process (PPP)
- Client and Authority liaison
- Compiling, reviewing and approving project proposals and environmental reports
- Developing and implementing Environmental Management Plans (EMP's)
- Provision of ongoing assistance and support to the Organisation's Directors and the environmental and engineering teams

SELECTED RELEVANT PROJECT EXPERIENCE

- Basic Assessment team for proposed wind monitoring masts, Western Cape Province (for

South African General Investment and Trust Company Limited)

- Basic Assessment team for the proposed wind monitoring mast, Eastern Cape Province (for Just Energy)
- EIA team for the proposed wind energy facility, Eastern Cape Province (for Just Energy)
- Basic Assessment team for the proposed wind monitoring masts, Eastern and Western Cape Provinces (for VentuSA (Pty) Ltd)
- EIA team for the proposed wind energy facility, Eastern and Western Cape Provinces (for VentuSA (Pty) Ltd)
- EIA team for the proposed solar energy facility, Northern Cape Province (for VentuSA (Pty) Ltd)
- EIA team for the proposed solar energy facility, Northern Cape Province (for Abengoa Solar South Africa (Pty) Ltd)

CURRICULUM VITAE
LOURENS MARTINUS DU PLESSIS

MetroGIS (Pty) Ltd

Visual Assessment and Geographic Information Systems Specialist

SKILLS BASE AND CORE COMPETENCIES

- More than 17 years experience in the application of Geographical Information Systems (GIS) in Environmental Planning and Management
- Extensive practical knowledge in spatial analysis, environmental modelling and digital mapping
- Experience in applying GIS in EIAs, State of the Environment Reports and Environmental Management Plans

TERTIARY EDUCATION

- BA (University of Pretoria) Geography and Anthropology (Malors), 1993

EMPLOYMENT HISTORY

- 1999 - present: MetroGIS, Director
- 1997 - 1999: GISBS, Project Manager
- 1990 - 1997: GisLAB c, Project Manager / Member

SELECTED RELAVANT PROJECT EXPERIENCE

- Visual Impact Assessments and Viewshed Analysis for various types of developments, including telecommunications structures, mining activities and tourism accommodation in National Parks and other environmentally sensitive areas. Some recent and current projects include:
 - Proposed Altantis Open Cycle Gas Turbine power station
 - Matimba B proposed coal-fired power station
 - Zues to Mercury transmission line (comparative viewshed analysis)
 - Mercury-Ferrum-Garone transmission line intergration
 - Mmamambula (Botswana) transmission line and power station viewshed analysis Kynoch
 - Gypsum Tailings dam extension
 - N1 Western Bypass Shell service station
 - Coega regional hazardous waste processing facility
 - Robinson Deep landfill extension
 - Concentrating Solar Power (CSP) plant
- EIAs for the utilisation of GIS based systems to determine and manage environmental impacts. Various projects in South Africa

CURRICULUM VITAE
INGRID SNYMAN

Batho Earth

Social Development Consultant

SKILLS BASE AND CORE COMPETENCIES

- Social Impact Assessments
- Public Participation programmes
- Communication, development of community structures and community facilitation
- Community-based training and
- Workshop reports

TERTIARY EDUCATION

- 1992: B A (Political Science) University of Pretoria
- 1995: B A (Hons) Anthropology University of Pretoria
- 1996 - 1997: Train the Trainers Centre for Development Administration - UNISA

PROJECT EXPERIENCE

(2000 - present)

- Public Participation and Social Impact Assessment for the proposed Thupela Waterberg Photovoltaic Plant, Limpopo Province (2010 and ongoing) (Lead Consultant: Savannah Environmental)
- Social Impact Assessment for the proposed Mitchells Plain-Firgrove-Stikland Transmission Line, Western Cape (2010 and ongoing) (Lead Consultant: BKS)
- Social Impact Assessment for the proposed Ariadne-Venus Transmission Line, KwaZulu Natal (2010 and ongoing) (Lead Consultant: Baagi Environmental)
- Socio-Anthropological Study for the proposed Booyendal Mine, Steelpoort area, Mpumalanga (2010 and ongoing) (Client: Northam Platinum)
- Social Impact Assessment for the proposed Dominion Reefs Power Line project, North West Province (2010 and ongoing) (Lead Consultant: Envirolution)
- Social Impact Assessment for the proposed Kannikwa Vlake Wind Farm Project, Northern Cape (2009) (Lead Consultant: BKS/Galago Environmental)
- Social Impact Assessment for the proposed extension of the Wemmershoek Wastewater Treatment Works (WWTW), decommissioning of the Franschhoek WWTW and construction of a transfer and outfall sewer between the two works, Franschhoek, Western Cape (2009) (Lead Consultant: BKS)
- Public Participation process as part of the EIA for the proposed new Ferrochrome Smelter near Brits in the North West Province (2009 and ongoing) (Lead Consultant: MasterQ Research and Quanto Environmental Solutions)
- Social Impact Assessment for the proposed Lefaragathle, Mogono, Rasimone, Chaneng outfall sewer and Chaneng sewer treatment plant, Rustenburg (Phokeng), North West Province (2009) (Lead Consultant: Naledzi Environmental)
- Social Impact Assessment for the proposed Vlakfontein Residential Development, Brakpan, Gauteng (2009) (Lead Consultant: Envirolution)
- Social Impact Assessment for the proposed Dorstfontein Mine Western Expansion Project, Kriel, Mpumalanga (2008 -2009) (Lead Consultant: Afrosearch)

- Social Impact Assessment for the proposed upgrading of railway stations and railway line in Mamelodi, Gauteng (2008) (Lead Consultant: BKS)
- Social Impact Assessment for the proposed Kyalami Strengthening Project, Kyalami, Gauteng (2008 -2009) (Lead Consultant: Savannah Environmental)
- Social Impact Assessment for the proposed ACSA Remote Aprons Project, O.R. Tambo International Airport, Gauteng (2008) (Lead Consultant: Africon)
- Social Impact Assessment for the proposed Cullinan Estate Development, Cullinan, Gauteng (2008) (Lead Consultant: Eko-Info)
- Social Impact Assessment for the proposed Apollo Lepini 400 kV Transmission Line Project, Tembisa, Gauteng (2008 - 2009) (Lead Consultant: Envirolution)
- Social Impact Assessment for the proposed Grootboom Platinum Mine, Steelpoort, Limpopo Province (2008) (Lead Consultant: Afrosearch)
- Social Impact Assessment for the proposed Dorstfontein Mine Expansion Project, Kriel, Mpumalanga (2008) (Lead Consultant: Afrosearch)
- Social Impact Assessment for the proposed Postmasburg Sishen Rail Link, Postmasburg, Northern Cape (2007) (Lead Consultant: Afrosearch)
- Public participation assistance for the proposed Eskom Johannesburg East Strengthening Project, Kempton Park, Gauteng. (2008) (Lead Consultant: BKS)
- Social Impact Assessment for the proposed new Soweto Integration Project (Etna to Orlando Substation) (2008 and ongoing) (Lead Consultant: Naledzi Environmental)
- Proposed Conroast Platinum Smelter, Rustenburg, North West Province: Public Participation assistance (2008) (Lead Consultant: Perisseuo Consulting CC)
- Social Impact Assessment for the proposed township development/eco-estate on the farm Grants Valley, Eastern Cape (2007) (Lead Consultant: Afrosearch)
- Social Impact Assessment for the proposed new 400 kV Transmission Line between Glockner Substation (near Rothdene) to the Etna Substation (near Ennerdale) (2007) (Lead Consultant: Naledzi Environmental)
- Public participation assistance for the proposed construction of a brewery and associated industrial activities for Heineken Supply Co (Pty) Ltd, Kempton Park, Gauteng. (2007) (Lead Consultant: BKS)
- Social Impact Assessment for the existing Buffelsfontein Mine, Stilfontein, North West Province (2007) ((Lead Consultant: Afrosearch)
- Social Impact Assessment for the proposed Thaba Lesodi Golf and Game Estate, Mabatlane, Limpopo Province (2007) (Lead Consultant: Afrosearch)
- Mooi-Mngeni Transfer Scheme Phase 2: Spring Grove Dam and Appurtenant Works: Social research as part of Social Impact Assessment (2007) (Lead consultant: Dr. K.U. Brügge / BKS)
- Proposed Township Development on the Farm Klipfontein 268-JR, Soshanguve Ext 9, Gauteng: Social Impact Assessment (2007) (Lead consultant: Eko-Info)
- Proposed Wesizwe Platinum Mine: Application for mining rights, North West Province: Public Participation assistance (2007) (Lead Consultant: Perisseuo Consulting CC)
- Public Participation for various exemption studies for proposed residential developments in the Gauteng area (Raslouw A.H., Rayton, Rooihuiskraal) (2006) (Lead consultant: Eko-Info)
- Social training for the Bekkersdal Farmer Support Programme (2006) (Lead consultant: Index)
- Public Participation for the Gautrain variant alignments in the Centurion area as proposed by the Bombela Consortium (2005 – 2006) (Lead consultant: Felehetsa Environmental)
- Public Participation for the upgrading of the Menlyn Road Network (2005 - 2006) (Lead consultant: Mawatsan)
- Public Participation for the New Multi-Products Pipeline project for Petronet: Jameson Park-

Langlaagte section (2005 - 2006) (Lead consultant: Bohlweki-Sivest Joint Venture)

- Public Participation for exemption from an Environmental Impact Assessment for the proposed Township Development on Portion 49 of The Farm Rooikopjes 483 JR, Rayton (2005)
- Public Participation for exemption from an Environmental Impact Assessment for the proposed Residential Development on the remainder of a Portion of Portion 1 Of The Farm Brakfontein 399 JR (2005-2006)
- Public Participation for the proposed new coal-fired power station in the Lephalale area, Limpopo Province (2005-2006) (Lead Consultant: Bohlweki Environmental)
- Public Participation for the proposed Open Cycle Gas Turbine (OCGT) plant and associated transmission lines and substation at Atlantis, Western Cape Province (2005) (Lead Consultant: Bohlweki Environmental)
- Public Participation for the proposed residential and commercial development of the Isidleke region in the western portion of the AECI Modderfontein site (2005) (Lead Consultant: Afrosearch)
- Social and Labour Plan for the Cullinan Diamond Mine, Cullinan, Gauteng and Updating of the Social Impact Assessment (2005) (Lead Consultant: Cymbian Environmental)
- Public Participation for the upgrading of Boundary Road, Kya Sands area (2004)
- Marketing for the Eskom Energy Efficient Design Competition (Lead Consultant: Communication Xellence) (2004)
- Management assistance for the public participation process for the development of the Tshwane Integrated Environmental Policy (Lead Consultant: Bohlweki Environmental) (2004)
- Social Impact Assessment and public participation for the proposed 765 kV transmission power line between Hydra Substation (near de Aar) and the proposed Gamma Substation (near Victoria West), Northern Cape Province (Lead Consultant: Bohlweki Environmental) (2004)
- Public Participation as part of the Environmental Scoping Study for the proposed upgrading of the intersection at Road D374 and Road D540 in the Muldersdrift area (2003)
- Public Participation and Social Impact Assessment as part of the Environmental Scoping Study for the proposed upgrading of the Waterval Water Care Works (2003)
- Public Participation for the return-to-service of the Camden Power Station, Mpumalanga (Lead Consultant: Bohlweki Environmental) (2003)
- Public Participation for the development of an Environmental Management Framework for the western part of the Kungwini Local Municipality area (2003) (Lead Consultant: Index)
- Public Participation for the proposed section of the PWV 5 from road K71 to road R21, including interchanges, Gauteng Province (2003) (Lead Consultant: Marchelle de Bruyn Development Consultants)
- Public Participation and Social Impact Assessment for the proposed Poseidon-Grassridge No. 3 400 kV Transmission line and the extension of the Grassridge Substation, Eastern Cape Province (2002) (Lead Consultant: Bohlweki Environmental)
- Public Participation and Social Impact Assessment for the proposed construction of power lines between the Grassridge Substation (near Port Elizabeth) and the Coega Industrial Development Zone, Eastern Cape Province (2002) (Lead Consultant: Bohlweki Environmental)
- Public Participation and Social Impact Assessment for the Matimba-Witkop No. 2 400 kV Transmission line in the Limpopo Province (2001 - 2003) (Lead Consultant: Bohlweki Environmental)
- Public Involvement for the prospecting permit application of De Beers, Premier Mine to the Department of Minerals And Energy (DME) (2002) (Lead Consultant: Bohlweki Environmental)
- Public Participation for the proposed Toboggan Track with related facilities on Portion 155 of the farm De Rust 478 JQ (Kosmos region) (2001 - 2002) (Lead Consultant: Marchelle de Bruyn

Development Consultants)

- Social Scoping Study as part of the Environmental Scoping Study for the proposed Kruidfontein platinum mine in the North West Province (2001) (Lead Consultants: Afrosearch)
- Public Participation for the proposed hazardous waste incinerator on the farm Bankfontein (Sasolburg region) (2000-2001) (Lead Consultant: Marchelle de Bruyn Development Consultants)
- Public Participation and Social Scoping for the proposed medical waste processing plants at City Deep and Killarney Gardens (2000-2001) (Lead Consultant: Rock Environmental)

CURRICULUM VITAE

IAIN PATON

Outeniqua Geotechnical Services

Geologist

SKILLS BASE AND CORE COMPETENCIES

Engineering and Geology

TERTIARY EDUCATION

- Rhodes University, Grahamstown, South Africa
- 1993: Bachelor of Science Degree in Geology and Economics
- 1994: Bachelor of Science with Honours Degree in Geology

WORK EXPERIENCE

- 1995 to 1996 Mine Geologist – Western Areas Gold Mine (JCI Limited), Johannesburg
- 1996 to 1997 Senior Geologist – Western Areas Gold Mine (JCI Limited), Johannesburg
- 1997 to 1998 Logging Geologist - Halliburton Energy Services (Drilling Systems), Aberdeen, Scotland
- 2000 - 2006 Construction Site Manager – Progex, Knysna
- 2006 to 2008 Engineering Geologist & Member - Siyakhula Lab cc, Knysna Civil Laboratory & Geotechnical Services
- 2008 to date Engineering Geologist & Member - Outeniqua Geotechnical Services cc (Formerly Siyakhula Lab cc), Knysna

CURRICULUM VITAE

DAVID HOARE

David Hoare Consulting cc

Ecologist (PhD)

SKILLS BASE AND CORE COMPETENCIES

Ecological consultant since 1995. Author of over 200 specialist ecological consulting reports. Wide experience in botanical studies within grassland, savannah and fynbos, as well as riparian, coastal and wetland vegetation.

MAIN AREAS OF SPECIALISATION:

- Vegetation ecology, primarily in grasslands, thicket, coastal systems, wetlands
- Plant biodiversity and threatened species specialist
- Remote sensing, analysis and mapping of vegetation
- Specialist consultant for environmental management projects

TERTIARY EDUCATION

- Matric - Graeme College, Grahamstown, 1984
- B.Sc (majors: Botany, Zoology) - Rhodes University, 1991-1993
- B.Sc (Hons) (Botany) - Rhodes University, 1994 with distinction
- M.Sc (Botany) - University of Pretoria, 1995-1997 with distinction
- PhD (in progress) – Nelson Mandela Metropolitan University, Port Elizabeth, "Patterns and determinants of plant biodiversity in temperate, mesic grasslands of South Africa" under supervision of Prof. Richard Cowling

EMPLOYMENT HISTORY

- 1 February 1998 – 30 November 2004, Researcher, Agricultural Research Council, Range and Forage Institute, Private Bag X05, Lynn East, 0039. Duties: project management, general vegetation ecology, remote sensing image processing
- 1 December 2004 – present, Member, David Hoare Consulting cc no. 2001/034446/23. Consultant, specialist consultant contracted to a number of existing companies and organisations
- 1 January 2009 – 30 June 2009, Lecturer, University of Pretoria, Botany Dept

SELECTED RELEVANT PROJECT EXPERIENCE

- Vegetation pattern in Pilanesberg National Park using digital photogrammetric data preparation techniques, 1 August – present
- VegMap digital mapping and description of vegetation units of Eastern Cape for new national vegetation map (Dept. of Environmental Affairs and Tourism/National Botanical Institute) and contributions to text and vegetation descriptions in accompanying booklet
- Classification and mapping of the savanna biome of South Africa using remote sensing techniques, 1 February 1998 – 20 November 1999
- Natural resource survey of nodes O R Tambo and Maputoland, using remote sensing techniques, 1 November 2001 – December 2003
- Field data collection for National Land Cover Change Project, Dec 2003 – March 2004.
- Vegetation survey of KwaMhlanaga Landcare site, March 2004

- Scale physiognomic survey of Suikerbosrand Nature Reserve, 1 March 1998 – 1 April 1998.
- Natural resource survey of Mpumalanga, South Africa, using remote sensing techniques, 1 November 1998 – 2000
- Vegetation of the corridor of the proposed Eskom powerline from Port Elizabeth to Bedford. September 2000
- National land cover change mapping and monitoring – development of guidelines, protocols and recommendations for a national mapping project, 1 June 2000 – 30 November 2000

**CURRICULUM VITAE
GARRY PATERSON**

*Agricultural Research Council
Soil Scientist (MSc, Pr.Sci.Nat)*

SKILLS BASE AND CORE COMPETENCIES

- Soil classification and mapping
- Soil interpretations
- Soil survey project management
- Environmental assessment
- Soil survey and land capability course presentation
- Ground penetrating radar

TERTIARY EDUCATION

- Matriculated: 1976, Dalziel High School, Motherwell, Scotland
- BSc (Hons) Geography, 1980, University of Strathclyde, Glasgow, Scotland
- MSc (Soil Science) cum laude, 1998, University of Pretoria

EMPLOYMENT HISTORY

- 1981-1987: Soil Scientist: Soil and Irrigation Research Institute, Pretoria
- 1987-1992: Senior Soil Scientist: Soil and Irrigation Research Institute, Pretoria
- 1992-present: Senior Soil Scientist: ARC-Institute for Soil, Climate & Water

PROFESSIONAL STATUS

- Registered Natural Scientist (SA National Council for Natural Scientific Professions)
- Member of South African Soil Classification Working Group
- Member of Soil Science Society of South Africa (1982-present)
- President of Soil Science Society of South Africa (2005-2007)
- Council Member of South African Soil Survey Association (2002-2003)
- Scientific Referee, S.A. Journal for Plant and Soil
- External Examiner, University of Pretoria and University of Witwatersrand