

CURRICULUM VITAE

THALITA BOTHA

Profession : Junior Environmental Assessment Practitioner
Specialisation : Environmental Management
Years Experience : 9 months

KEY RESPONSIBILITIES

- Professional execution of consulting services
- Impact assessment reporting
- Compliance monitoring and reporting
- Development of project proposals for procuring new projects
- Project administration

SKILLS BASE AND CORE COMPETENCIES

- EIA Report writing;
- Problem solving;
- Administrative tasks;
- GIS mapping;
- Analysis and manipulation of geographical information and technical experience with the use of ArcGIS; and
- Ability to work independently and in a team.

EDUCATION AND PROFESSIONAL STATUS

Degrees:

- *B.Sc. (Hons.) Environmental Management (2014), North-West University, Potchefstroom.*
- *B.Sc. Environmental- and Biological Science (2013), North-West University, Potchefstroom.*

EMPLOYMENT HISTORY

- 23 September 2015 – Current
Savannah Environmental (Pty) Ltd: Junior Environmental Assessment Practitioner

PROJECT EXPERIENCE

Environmental Impact Assessments

- Environmental Impact Assessment for the Ilanga CSP 9 Project, Northern Cape Province (Emvelo Eco Projects)
- Environmental Management Programme for the Thaba Eco Hotel PV Solar System, Gauteng Province (Camco Clean Energy)
- Environmental Impact Assessment for the Noupoot CSP Project, Northern Cape Province (Cresco Energy)
- Basic Assessment for the Gunstfontein Switching Station and 132kV overhead power line, Northern Cape Province (Gunstfontein Wind Farm)
- Revision of Environmental Management Plan (EMP) for the Hopefield Small Wind Farm (ACED)

GIS Mapping (ArcGIS 10.2)

- Noupoot CSP Project, Northern Cape Province.
- Sol Invictus PV Developments near Aggeneys, Northern Cape Province.

CURRICULUM VITAE

(Energy-related projects)

KAREN JODAS

SAVANNAH ENVIRONMENTAL (PTY) LTD

Profession	:	Environmental Management and Compliance Consultant ; Environmental Assessment Practitioner
Specialisation	:	Strategic environmental assessment and advice; project management and co-ordination of environmental projects; environmental compliance advise and monitoring; Environmental Impact Assessment; environmental management; peer review; policy, strategy and guideline formulation; renewable energy projects; water resources management
Work experience	:	Nineteen (19) years in the environmental assessment and management field

VOCATIONAL EXPERIENCE

Provide technical input for projects in the environmental management field, specialising in strategic evaluation, Environmental Impact Assessment studies, Environmental Management Plans, integrated environmental management, environmental compliance monitoring; peer review of EIA reports and processes, strategy and guideline development, and public participation. Key focus on overall Project Management, integration of environmental studies and environmental processes into larger engineering-based projects, strategic assessment, and the identification of environmental management solutions and mitigation/risk minimising measures.

Undertaking studies requiring all environmental-related disciplines has allowed for considerable experience to be gained in the environmental assessment and management fields. A specialist area of focus is on management and assessment of multi-faceted projects, including electricity generation and transmission projects (with a strong focus on the renewable energy sector), linear developments (roads and power lines), bulk infrastructure and supply (e.g. WTWs, pipelines, landfills), the mining industry, urban, rural and township developments, environmental aspects of IDPs, EMFs, SoERs, as well as environmental planning, development and management.

Working knowledge of environmental legislation, strategies, guidelines and policies. Compilation of the reports for environmental studies are in accordance with the all relevant environmental legislation under the National Environmental Management Act.

SKILLS BASE AND CORE COMPETENCIES

- Nineteen years of experience in the environmental management, impact assessment and compliance fields
- Seventeen years of experience in Project Management - Project management of large environmental assessment and management projects
- Strategic and compliance advise for all aspects of environmental assessment and management
- External and peer review of environmental assessment and compliance reporting as well as EIA processes
- Working knowledge of environmental planning policies, regulatory frameworks and legislation
- Identification and assessment of potential environmental impacts and benefits
- Development of practical and achievable mitigation measures and management plans and evaluation of risk to project execution

- Experienced in environmental compliance advise, monitoring and reporting for construction projects
- Compilation and review of the reports in accordance with all relevant environmental legislation
- Public participation/involvement and stakeholder consultation
- Environmental strategy, policy and guidelines development
- Experienced in assessments for both linear developments and nodal developments
- Key experience in the assessment of impacts associated with renewable energy projects
- Wide range of experience for public and private sector projects
- Completed projects in all nine Provinces of South Africa, as well as Zambia and Lesotho

EDUCATION AND PROFESSIONAL STATUS

Degrees:

- 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*

Short Courses:

Water Quality Management, *Potchefstroom University, 1998*
 Environmental Law Course, *Aldo Leopold Institute, 2002*
 WindFarmer Wind Farm Design course, *Garrad Hassan, 2009*

Professional Society Affiliations:

Registered with the South African Council for Natural Scientific Professions as a Professional Natural Scientist: *Environmental Scientist (400106/99)*

Other Relevant Skills:

Xtrack Extreme – Advanced Off-Road Driving Course (2003)

EMPLOYMENT

2006 - Current: Director of Savannah Environmental (Pty) Ltd. Independent specialist environmental consultant, Environmental Assessment Practitioner (EAP) and advisor. Primary focus on energy-sector projects.

1997 –2005: Associate of Bohlweki Environmental (Pty) Ltd. Environmental Management Unit: Manager; Principle Environmental Scientist focussing on Environmental Management and Project Management.

PROJECT EXPERIENCE

Experience includes projects associated with electricity generation and transmission, wastewater treatment facilities, mining and prospecting activities, property development, and national roads, as well as strategy and guidelines development. Selected projects in the energy and renewable energy sector include:

Strategic and Regional Assessments

- *Regional Assessment for wind energy developments within an identified area on the West Coast of the Western Cape Province (for Eskom Holdings Limited)*
- *Five Regional Assessment for wind energy developments within five identified area across South Africa (for Eskom Holdings Limited)*
- *Part of the Strategic Task Team for the identification of Eskom's future wind farm sites (Wind 1000) (for Eskom Holdings Limited)*
- *Regional Assessment for wind energy developments within an identified area in the De Aar Area of the Northern Cape Province (for juwi Wind)*
- *Strategic Regional Assessment for the Environmental Suitability of Wind Energy Facilities for the entire Western Cape Province (for DEA&DP)*

- *Regional Assessments for wind energy developments within identified areas in the Northern and Eastern Cape, including mapping (for Networx)*

Renewable power generation projects: Wind Energy Facilities

Environmental Impact Assessments and Environmental Management Plans

- *ABs Wind Energy Facility near Indwe, Eastern Cape (for Rainmaker Energy)*
- *Amakhala Emoyeni Wind Energy Facility near Cookhouse, Eastern Cape (for Windlab Developments)*
- *Castle Wind Energy Facility, in De Aar (for Juwi Renewable Energies)*
- *Cookhouse II Wind Energy Facility (for ACED & Tertia Waters)*
- *Dorper Wind Energy Facility near Molteno, Eastern Cape (for Rainmaker Energy)*
- *Elliot Wind Energy Facility (for Rainmaker Energy)*
- *Garob Wind Energy Facility, in Copperton (for Juwi Renewable Energies)*
- *Gouda Wind Energy Facility near Gouda, Western Cape (for VentuSA)*
- *Gunstfontein Wind Energy Facility (for Networx)*
- *Happy Valley Wind Energy Facility, Eastern Cape (for REISA)*
- *Hidden Valley Wind Energy Facility (for ACED)*
- *Hopefield Wind Energy Facility (for Umoya Energy)*
- *Karoo Renewable Wind and PV Solar Energy Facility near Victoria West, Northern & Western Cape (for SARGE)*
- *Pofadder 3x 140MW Wind Energy Facilities, Northern Cape (for Mainstream Renewable)*
- *Riverbank Wind Energy Facility near Wesley, Eastern Cape (for Just Energy)*
- *Sere Wind Energy Facility on the West Coast in the Western Cape (for Eskom Generation)*
- *Springfontein Wind Energy Facility (for Mainstream Renewable)*
- *Stormberg Wind Energy Facility (for Networx)*
- *West Coast One Wind Energy Facility (for Moyeng Energy (Pty) Ltd)*
- *West Coast Wind Energy Facility (for Exxaro)*
- *Wind Energy Facility at Cookhouse, Eastern Cape (for African Clean Energy Developments)*
- *Wind Energy Facility near Britannia Bay, Western Cape (for TerraPower Solutions)*
- *Zen Wind Energy Facility, near Gouda (for VentuSA Energy)*

Basic Assessments for wind monitoring masts

- *Caledon, Worcester, Tulbach Wind Energy Facilities (for SAGIT)*
- *Dorper, ABs, Dobos Wind Energy Facilities (for Rainmaker Energy)*

Compliance Advice

- *Amakhala Emoyeni Wind Energy Facility (for Amakhala Emoyeni)*
- *Amakhala Emoyeni Wind Energy Facility, Environment and Social Action Plan (for Cennergi)*
- *Cookhouse Wind Energy Facility site (for ACED Cookhouse Renewables)*
- *Cookhouse II Wind Energy Facility (for ACED)*
- *Dorper Phase 1 Wind Energy Facility (for Rainmaker Energy)*
- *Gouda Wind Farm (for Aveng / Acciona)*
- *Happy Valley Wind Energy Facility (for VentuSA Energy / EDPR)*
- *Loperberg Wind Farm (for Rainmaker Energy)*
- *Nobelsfontein Wind Energy Facility (for Coria / SARGE)*
- *Nojoli Wind Energy Facility (for ACED)*
- *Oyster Bay Wind Energy Facility (for RES)*

Due Diligence Reporting

- *ESG DD for Loeriesfontein, Khobab and Noupoort Wind Energy Facilities (for Actis)*

Renewable power generation projects: Solar Energy Facilities

Environmental Impact Assessments and Environmental Management Plans

- *5x CSP and 2x PV Solar Energy Facilities, Kenhardt, Northern Cape (for Kotulo Tsatsi)*
- *Blackwood PV Solar Energy Facility, near Kimberley/Boshoff (for VentuSA Energy)*
- *Bosjesmansberg PV Solar Energy Facility, Copperton (for Networx)*
- *Boundary PV Solar Energy Facility (for VentuSA Energy)*
- *De Aar CSP Energy Facility at De Aar, Northern Cape (for African Clean Energy Developments)*
- *De Aar PV Solar Energy Plant (for Solar Capital)*
- *Gihon and Kison PV Solar Energy Facilities (for Networx)*

- Grootdrink (Albany) PV Solar Energy Facility (for Africoast Engineers)
- Gunstfontein PV Solar Energy Facility (for Networx)
- Kabi Kimberley PV facility at DeBeers, Kimberley (Kabi Solar)
- Karoo Renewables PV Solar Energy Facility (for SARGE)
- KaXu CSP Facility near Pofadder, Northern Cape (for Abengoa Solar)
- Kheis Phase 1, 2 & 3 PV Solar Energy Facility (for GeStamp Solar)
- Khi CSP Facility near Upington, Northern Cape (for Abengoa Solar)
- Klipgat PV Solar Energy Facility (for Terra Solar)
- Loeriesfontein/Helios PV Solar Energy Plant (for Solar Capital)
- Naauwpoort PV Solar Energy Facility (for Terra Solar)
- Pofadder 75MW Solar Energy Facility, Northern Cape (for Mainstream Renewable)
- Prieska PV Solar Energy Facility, Prieska (for VentuSA Energy)
- PV Solar Energy Facility near De Aar, Northern Cape (for Solar Capital)
- Ritchie PV Solar Energy Facility (for Solar Capital)
- San Solar PV Solar Energy Facility, Kathu (for VentuSA Energy)
- Sirius (Tungston Lodge) x2 - PV Solar Energy Plants (for Aurora Power Solutions)
- Solar Plant in the Northern Cape Solar at Kathu (Wincanton) (for REISA)
- Solar Plant in the Northern Cape Solar at Sishen (Wincanton) (for VentuSA Energy)
- Stormberg Solar PV Solar Energy Facility (for Networx / Prana Energy)
- Tiger Kloof PV Solar Energy Facility (for Kabi Energy)
- Tiger Solar PV Solar Energy Facility, Northern Cape (for Kabi Energy)
- Upington 2 and 3 CSP Facilites near Upington, Northern Cape (for Abengoa Solar)
- Vaalkop and Witkop PV Solar Energy Facilities, North West (for Kabi Solar)
- Wagnbietjiespan PV Solar Energy Facility near Boshoff, Free State (for VentuSA)
- Wolmaransstad Municipality Solar PV Solar Energy Facility (for BlueWave)
- Xina CSP facility near Pofadder, Northern Cape (or Abengoa Solar)
- Zuurwater PV Solar Energy Facilities (x4) (for Solafrica / BlueWave)

Basic Assessments

- Amandla Welanga and Dida PV Solar Energy Facilities(for Terra Solar)
- Carolusberg PV Solar Energy Facility (for Ilio Energy (SARGE))
- Gosforth Park and Kynoch Rooftop PV Solar Energy (for Building Energy)
- Hibernia 5MW PV Solar Energy Facility (for EA Energy)
- Inkulukelo PV Solar Energy Facility (for Terra Solar)
- Kokerboom and Boabab PV Solar Energy Plants (for Brax Energy)
- Nigramoep PV Solar Energy Plant, Nababeep (for SARGE)
- Noupoot (Kleinfontein and Toitdale) CPV (for Terra Power)
- O'Kiep 1 PV Solar Energy Plant, Springbok (for Ilio Energy (SARGE))
- O'Kiep 2 PV Solar Energy Plant, Springbok (for BluePort Trade 118 (SARGE))
- O'Kiep 3 PV Solar Energy Plant (for Ilio Energy (SARGE))
- PV Solar Energy Plant - Kimberley (for Kabi Energy)
- Slurry PV Solar Energy Facility (for PPC)
- Small projects for PV Solar Energy Facilities (for BlueWave)
- Son Citrus Rooftop PV Solar Energy (for Building Energy)
- Tollie PV Solar Energy Facility (for Terra Solar)
- x2 Southern Farms PV Solar Energy Plants, Augrabies (for Southern Farms)

Compliance

- Bokpoort PV Solar Energy Facility (for Solafrica)
- Kathu II Bid compliance (for Building Energy)
- Kathu PV Solar Energy Facility (for Building Energy / REISA)
- Pofadder and Upington CSP (for Abengoa Solar)
- Prieska PV Solar Energy Facility (for VentuSA)
- Sishen PV Solar Energy Facility phase 1, 75MW (for Aveng / Acciona)
- Xina compliance (for Abengoa Solar)

Screening Studies

- 75MW facilities criteria-based analysis screenings (for BlueWave)
- Allemans, Wonderheuwel, Damfontein, Dida PV Solar Energy Facilities (for Terra Solar)
- Bobididi 5MW PV Solar Energy Facility (for Root 60Four Energy)
- Bosjesmansberg PV Solar Energy Facility, Copperton (for Networx)
- Lephalale PV Solar Energy Facility (for Exxaro)
- Northern Cape 5MW PV Solar Energy Facility, 2nd Stage One (for EDIP)

- Senekal 1 & 2, Pongola and Newcastle PV Solar Energy Facilities (for Building Energy)
- Small projects - PV Solar Energy Facility (x15) (for Building Energy)
- Small projects PV Solar Energy Facility (x3) (for GeoSolar)
- Small scale PV Solar Energy Facility - 2nd Stage One (for BlueWave)
- Small scale PV Solar Energy Facility - 2nd Stage One (for Building Energy)
- Various PV Solar Energy Facilities (for INCA Energy)

Siting Study

- CSP siting study (for Exxaro)

Due Diligence Reporting

- Equator Principles Due Diligence reporting - Kabi Kimberley PV plant (for Enertis Solar)
- Equator Principles Due Diligence reporting - Vaal River Solar 1 PV plant (for Enertis Solar)

Power Generation Projects

Environmental Impact Assessments and Environmental Management Plans

- Ankerlig OCGT to CCGT Conversion project, and the associated 400 kV transmission power line between Ankerlig and the Omega Substation, Western Cape (for Eskom Generation)
- Gourikwa OCGT to CCGT Conversion project, and the associated 400 kV transmission power line between Gourikwa and the Proteus Substation, Mossel Bay (for Eskom Generation)

Basic Assessments

- New raw water reservoir and pipeline for the Medupi Power Station, Limpopo Province (for Eskom Generation)
- Substation for Aggeney's PV facility (for BioTherm Energy)

Screening

- Indwe Power Station (for IPISA)
- IPP Baseload screening (coal) (for Exxaro)

Siting Study

- Siting study for a coal fired power station in the Bethal area (for ISS Global)

Power line projects

Environmental Impact Assessments and Environmental Management Plans

- Steelpoort Integration Project, Limpopo Province (for Eskom Transmission)
- Kyalami/Midrand Substation and 3 Transmission lines, Gauteng (for Eskom Transmission)

Basic Assessments

- Amakhala Emoyeni Power Line and Kopleegte substation (for Cennergi)
- Cuprum-Burchell; Burchell-Mooidraai power line BAR (Prieska) (for Eskom)
- Garob-Kronos Power Line (for Juwi Renewable Energies)
- Golden Valley Dx-Poseidon line and substation & Golden Valley-Kopleegte power line (for BioTherm Energy)
- Ilanga Lethemba-Hydra 132kV (for Solar Capital)
- Iziduli Emoyeni Substation, Power Line & LA18 (for Windlab)
- Kathu 132kV Power Line (for VentuSA Energy)
- Loeries 2 Power Line (for Mainstream Renewable)
- Loeriesfontein substation and power lines (for Mainstream Renewable)
- Nobelsfontein Wind Substation and Power line (for Coria / SARGE)
- Realignment of Dx lines at Hopefield Wind Energy Facility (for Umoya Energy)
- Rhebokfontein Power Line (for Moyeng Energy (Pty) Ltd)
- Sishen Solar PV Energy Facility 132kV Power line (for Aveng/Vexicom)
- Springfontein Power Line (for Mainstream Renewable)
- Wesley-Peddie / Riverbank Phase 2 Power Line 132 kV (for Just Energy)

CURRICULUM VITAE

GABRIELE WOOD

Profession : Public Participation and Social Consultant
Specialisation : Public Participation Process Implementation
Years experience : 9 years

KEY RESPONSIBILITIES

Specific responsibilities as a Public Participation and Social Consultant include professional execution of public participation consulting for a variety of projects. This includes managing and coordinating public participation processes for Environmental Impact Assessments (EIA).

SKILLS BASE AND CORE COMPETENCIES

- Qualitative and Quantitative Social Research
- Social Assessment (Stakeholder and Social Analysis)
- Public participation process implementation, monitoring and evaluation
- Facilitation (Focus Groups, Community Meetings, Interest Group Meetings, Public Meetings, Public Open Days, Workshops, Forums, Committees, etc.)
- Stakeholder Management
- Community Needs Assessment
- Relocation Facilitation
- Project Administration
- Minute Taking
- Report Writing

EDUCATION AND PROFESSIONAL STATUS

Degrees:

- B. Hons. Anthropology (Cum Laude): University of Johannesburg (2004 – 2005)
- B.A. Psychology: University of Johannesburg (2002 – 2004)

Courses:

- International Association for Public Participation (IAP2) Certificate in Techniques for Effective Public Participation (2015)
- International Association for Public Participation (IAP2) Certificate in Foundations of Public Participation (Planning and Communication for Effective Public Participation) (2015)
- South African Advertising Research Foundation (SAARF) living Standards Measure (LSM) Training (2010).
- Certificate in Focus Group Moderation Skills, Market Research for Africa (2007)
- Prestige Diploma in Public Relations: Allenby Campus Boksburg now Damelin College (2001)

EMPLOYMENT

May 2012 – Current: Savannah Environmental (Pty) Ltd: Public Participation and Social Consultant

March 2007 – April 2012: NMA Effective Social Strategists (Pty) Ltd: Assistant Project Manager : Public Participation and Social Research

January 2005 – March 2007 (Part-time): University of Johannesburg: Department of Anthropology and Development Studies: Student Tutor and Research Assistant

PROJECT EXPERIENCE

Current projects include:

- Abengoa Upington CSP Phase 2 and 3 – EIA (for Abengoa Solar)
- Pofadder Renewable Energy Facilities – EIA (for Mainstream Renewable Power South Africa)
- Cuprum-Burchell and Burchell to Moodraai – BA (for Eskom)
- Wolmaransstad Municipality Solar Energy Facility – EIA (for Bluewave)
- Blackwood Power Line and Substation – BA (for VentuSA Energy)
- Transalloys Coal Fired Power Station – EIA (for Transalloys)
- Castle Wind Energy Facility – EIA (for juwi Renewable Energies)
- Karreebosch Wind Energy Facility – EIA (for G7 Renewable Energies)
- Tatuka PV Solar Energy Facility – EIA (for Eskom)
- Majuba PV Solar Energy Facility – EIA (for Eskom)
- Lethabo PV Solar Energy Facility – EIA (for Eskom)
- Iziduli Power Line and Substation – BA (for Windlab)
- Kathu CSP Watercourse Crossings and Power Line – BA (for GDF Suez)
- Karreebosch Wind Energy Facility – EIA (for G7 Energies)
- SolarReserve Kotulo Tsatsi Energy CSP Facilities – EIA (for SolarReserve & Kotulo Tsatsi Energy)
- Tewa Isitha Solar 1 & 2 PV Energy Facilities – EIA (for Africoast Engineering)
- Byromate Biomass Power Generation Facility – EIA (for Energuys)
- Bloemsmond Solar PV1 & PV2 Energy Facilities – EIA (for Atlantic Energy Partners)
- Buffels Solar 1 & 2 Energy Facilities – EIA (for Kabi Solar)
- Gunstfontein Wind Energy Facility – EIA (for Gunstfontein Wind Farm (Pty) Ltd)
- Woodhouse Solar 1 & 2 Energy Facilities – EIA (for Woodhouse Solar 1 (Pty) Ltd and Woodhouse Solar 2 (Pty) Ltd))
- Ilanga CSP 7, 8 and 9 Solar Facilities – EIA (for Emvelo Eco Projects (Pty) Ltd)
- Kuruman Industrial Cluster – EIA (for Northern Cape Department of Economic Development and Tourism)
- Saldanha Bay Network Strengthening project – EIA (for Eskom SOC Limited)
- 132kV Power Line for the authorised Excelsior Wind Farm (for Amstillinx (RF) (Pty) Ltd)
- Sol Invictus 1 – 4 PV Solar Energy Facilities – EIA (for Cyracraft (Pty) Ltd)

WASTE MANAGEMENT LICENSES

- Integrated NEMA and Waste Management License application for the Thabametsi Coal Fired Power Station, Limpopo
- Integrated NEMA and Waste Management License application for the Umbani Coal Fired Power Station, Mpumalanga
- Integrated NEMA and Waste Management License application for the Transalloys Coal Fired Power Station, Mpumalanga
- Waste Management License application for South Deep for Goldfields, Gauteng
- Waste Management License application for Medupi PS pollution control dams, Limpopo
- Waste Management License application for REDISA Visserhok Tyre Depot, Western Cape
- Waste Management License application for REDISA Witbank Tyre Depot, Mpumalanga
- Integrated NEMA and Waste Management License application for the Tshivhaso Coal-fired Power Plant, Limpopo

Curriculum Vitae

GA Botha

Personal Information:

Full names and surname: Gerhardus Alfred Botha
Date of birth: 11 April 1986
Identity number: 860411 5136 088
Postal address: PO BOX 298
BLOEMFONTEIN
9300
Residential address: Eunice House
3 Jock Meiring Street
Park West
BLOEMFONTEIN
9301
Cell phone number: 084 207 3454
Email address: gabotha11@gmail.com
Gender: Male
Nationality: South African citizen
Health: Excellent
Criminal offences: None
Marital status: Married
Bilingualism: Very good – English and Afrikaans
Hobbies:

- Photography
- Hiking and Camping
- Sport and Physical Exercise
- Reading

Educational Background:

1. Secondary Education:

Name of School: Marais Viljoen High School
Highest Standard Passed: National Senior Certificate – Grade 12 (Passed with merit)
Year: 2004

Subjects passed:

Afrikaans First Language	HG
English Second Language	HG
Mathematics	HG
Physical Sciences	HG
Biology	HG
Technical Mechanics	HG

2. Tertiary Education:

Obtained the following degrees from the University of the Free State (UFS) (see Appendix A for copies of degrees):

- **Baccalaureus Scientiae [B.Sc]** degree majoring in Zoology and Botany.
- **B.Sc Honours degree** majoring in Botany (Vegetation Ecology) with the following thesis theme:
“Phytosociological study of a section of the panhandle of the Okavango Delta, Botswana.”
Other subjects: Ecology, Limnology and Wildlife Management
- Currently completing a **M.Sc degree** in Botany (Vegetation Ecology) with the following thesis theme:
“Phytosociological study of a fossil river (Nxamaseri) connected to the panhandle of the Okavango Delta, Botswana.”

3. Short Courses:

- Attended the following UFS (University of the Free State) accredited courses (See Appendix B for copy of certificate):
 - **Wetland Management** (ecology, hydrology, biodiversity and dileation)
 - **Introduction to GIS & GPS** (Code: GISA 1500S).

Professional Society Affiliations:

- The South African Council for Natural Scientific Professions: Pr. Sci. Nat. Reg. No. 400502/14 (Botany and Ecology).

Employment

Position: Environmentalist and Vegetation Ecologist
Employer: Envioworks
Duration: January 2010 – December 2012

Position: Environmentalist and Vegetation Ecologist
Employer: GreenMined (Pty) LTD
Duration: On contract basis: January 2012 – current date.

Position: Environmentalist and Vegetation Ecologist
Employer: Eco-Care Consultancy (Pty) LTD
Duration: On contract basis: January 2012 – current date.

Position: Ecologist
Employer: Savannah Environmental (Pty) LTD
Duration: On contract basis: January 2014 – current date.

The Performance Areas for Envioworks were as follows:

1. Environmental Impact Management

RESPONSIBILITIES

- ❖ Conduct and coordinate Environmental Impact Assessments (EIA).
- ❖ Environmental Monitoring and Auditing.
- ❖ Compile Environmental Management Plans.
- ❖ Environmental Management during construction (ECO).
- ❖ Run Public Participation Processes.

2. Mining Impact Management

RESPONSIBILITIES

- ❖ Compile Environmental Management Impact Reports (EMPR).

3. Reclamation Ecology

RESPONSIBILITIES

- ❖ Compile Wetland Rehabilitation Reports.
- ❖ Compile Vegetation Rehabilitation/Reclamation Reports.
- ❖ Conduct alien vegetation species management and compile eradication plans.
- ❖ Conduct Search & Rescue of Flora and Fauna.
- ❖ Compile Fire Management Plans.
- ❖ Compile Conservation Management Plans.

4. Game and Veld Management

RESPONSIBILITIES

- ❖ Compile Business and Management Plans for the keeping of large predators.
- ❖ Determining of carrying capacity.
- ❖ Conduct and facilitate agricultural feasibility studies.

General Competencies & Experience:

1. Proven track record in project management

Worked as a Project Manager for a number of projects including the following:

- Agricultural Potential and Pre-Feasibility Study for Maluti FET College on a farm near Harrismith.
- ECO Manager for the laying of optic fiber cables within the road reserve of the N1 between Bloemfontein and Beaufort West.

2. Negotiation skills

As an environmental practitioner I had to continuously convince non-willing participants of environmental matters. In working with authorities verbal negotiation is also a necessary skill I have obtained.

3. Conflict Resolution

Almost on a daily basis, an environmental practitioner faces conflict. Sometimes as a part to the conflict or as a mediator. This has taught me to be able to handle different people with different interest and points of view.

4. Computer Skills

I am quite comfortable with most software packages and have a keen interest in learning future software packages.

5. Environmental work relating experiences.

- I have successfully compiled a number of EIA's, EMP's etc.
- I have conducted various Vegetation and Ecological Studies in various regions.
- I've managed a research team during an Agricultural Potential and Pre-Feasibility Study for Maluti FET College.
- I also took part in the research itself for the above mentioned project (my "leg" of the project comprised out of the vegetation study, carrying capacity study and veld management recommendations).
- I have a thorough experience of ECO work which include:
 - ECO work for the refurbishment of a 22kV line between Edenburg and Gariiep.
 - ECO work for the laying of optic fiber cables within the road reserve of the N1 from Bloemfontein to Laingsburg.
 - ECO work for the construction of a 22kV line in the Vredefort Dome.

6. Experience in working in sensitive and unique areas.

I have conducted vegetation studies and other environmental projects in various sensitive habitats including vegetation sensitive areas such as:

- Agulhas National Park
- Magalies Mountain Region
- Beaufort West / Laingsburg Region – ECO work, Search and Rescue as well as a Vegetation Rehabilitation Plan,
- Daveyton Region - EIA and Vegetation Study in an area closely associated with the sensitive Blesbokspruit Wetland System,
- West Coast Region (Melkbosstrand, Yzerfontein, Darling & Atlantis) - Writing of EIA Report for the laying of optic fiber. I also accompanied Dr. David J. McDonald during the Vegetation Survey.
- Drakensberg Region - Vegetation study as well as Search and Rescue for a proposed resort development near the uKhahlamba Drakensberg Park.
- Vredefort Dome (UNESCO World Heritage Site) – ECO work for the construction of a 22kV Power Line (Work include basic Vegetation Study, Search and Rescue of conservation worthy species etc.),

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- Ecological Survey for a proposed Eskom powerline located within a section of the Sekhukhuneland Centre of Plant Endemism,
- Kriel and Emalaheni Regions - Ecological Studies and Wetland Delineation within areas containing important and sensitive wetlands,
- Scottburgh Region – Vegetation study within the Critically Endangered; Interior South Coast Grassland Ecosystem.
- Okavango Delta – See Tertiary Education (B.Sc Honours & M.Sc).

7. Other work relating experiences.

Excursions:

The following excursions were undertaken together with the faculties mentioned from the University of the Free State.

- De Hoop Nature Reserve together with die Department of Zoology in 2007, and the Department of Plant Sciences in 2008.
- Department of Entomology excursion to Hogsback in 2007.
- Excursion to the Okavango Delta in June/July 2006 and June and December of 2008 as part of a research team from the Department of Zoology.
- Wildlife management excursion to Twee Riviere together with Professor Nico Smit.
- Accompanied Professor Johan du Preez on numerous occasions to Namibia, Botswana and Zimbabwe during research conducted there.

Tutorial:

I am passionate about ecology and enthusiastic about sharing my knowledge with others. I have good people skills and the ability to communicate effectively in an educational environment of which the following serves as proof:

- Practical laboratory assistant in service of the Department of Zoology from 2007 to 2009.
- Practical laboratory assistant in service of the Department of Plant Sciences in 2008 and 2009.
- Presented interactive information sessions to Bloemfontein school learners on National Arbour Day.

Other (holiday jobs):

- Printing company: Invisible Card Company
Mr D Smart
Cell: 082 377 5010
- Vehicle service station: Supercraft Service Centre
Mr A Meyer
Cell: 083 307 1521

References:

1. Christine Fouché
Manager: GreenMined (Pty) LTD
Cell: 084 663 2399
2. Professor J du Preez
Senior lecturer: Department of Plant Sciences
University of the Free State
Cell: 082 376 4404

APPENDIX A

COPIES OF DEGREES

UNIVERSITEIT
VAN DIE
VRYSTAAT



UNIVERSITY
OF THE
FREE STATE

HIERMEE WORD VERKLAAR DAT DIE GRAAD THIS IS TO CERTIFY THAT THE DEGREE

Baccalaureus Scientiae

TOEGEKEN IS AAN
HAS BEEN CONFERRED UPON

BOTHA, Gerhardus Alfred

NADAT AAN DIE STATUTE EN REGULASIES VAN DIE UNIVERSITEIT VOLDOEN IS. AS BEWYS DAARVAN PLAAS ONS ONS ONDERSKEIE HANDTEKENINGE EN DIE SEËL VAN DIE UNIVERSITEIT HIERONDER. IN ACCORDANCE WITH THE STATUTES AND REGULATIONS OF THE UNIVERSITY. AS WITNESS OUR RESPECTIVE SIGNATURES AND THE SEAL OF THE UNIVERSITY BELOW.

ENDOSSEMENT: DIERKUNDE
ENDORSEMENT: ZOOLOGY

WAARNEMENDE VISEKANSELIËR/
ACTING VICE-CHANCELLOR



DEKAAN/DEAN

REGISTRATEUR/REGISTRAR

BLOEMFONTEIN
2009-04-23
2005005364

UNIVERSITEIT
VAN DIE
VRYSTAAT



UNIVERSITY
OF THE
FREE STATE

HIERMEE WORD VERKLAAR DAT DIE THIS IS TO CERTIFY THAT THE

Baccalaureus Scientiae Honores
in PLANTKUNDE
in BOTANY

TOEGEKEN IS AAN
HAS BEEN CONFERRED UPON

BOTHA, Gerhardus Alfred

NADAT AAN DIE STATUTE EN REGULASIES VAN
DIE UNIVERSITEIT VOLDOEN IS, AS BEWYS
DAARVAN PLAAS ONS ONS ONDERSKEIE
HANDTEKENINGE EN DIE SEël VAN DIE
UNIVERSITEIT HIERONDER.

IN ACCORDANCE WITH THE STATUTES AND
REGULATIONS OF THE UNIVERSITY, AS
WITNESS OUR RESPECTIVE SIGNA-
TURES AND THE SEAL OF THE
UNIVERSITY BELOW.

Handwritten signature of Jansen in black ink.

VERKANSERSERVICE-CHANCELLOR



Handwritten signature of the Acting Dean in black ink.

WAARNEMENDE OORWAGTING DEEN

Handwritten signature of the Director of Student Academic Services in black ink.

DIREKTEUR: AKADEMIESE STUDENTEDIENSTE
DIRECTOR: STUDENT ACADEMIC SERVICES

REGISTRASIE
2018/05/18
2109075364

APPENDIX B

OTHER CERTIFICATES

SACNASP

South African Council for Natural Scientific Professions

herewith certifies that

Gerhardus Alfred Botha

Registration number: 400502/14

is registered as a

Professional Natural Scientist

in terms of section 20(3) of the Natural Scientific Professions Act, 2003
(Act 27 of 2003)

in the following field(s) of practice (Schedule I of the Act)

Ecological Science

28 January 2015

Botanical Science

19 November 2014



28 January 2015

Pretoria

President

Executive Director

UNIVERSITY OF THE
FREE STATE
UNIVERSITEIT VAN DIE
VRYSTAAT
YUNIVESITHI YA
FREISTATA



UFS·UV
NATURAL AND
AGRICULTURAL SCIENCES
NATUUR- EN
LANDBOUWETENSKAPPE

This is to certify that

Gerhard Botha

has successfully completed a

Wetlands Management: Introduction and
Delineation Short Course

4 – 8 November 2013

Course Presenter:

Mr. Piet-Louis Grundling

Prof. M.T. Seaman

Director: Centre for
Environmental Management





CERTIFICATE OF ATTENDANCE | BYWONINGSERTIFIKAAT

This is to certify that | Hiermee word gesertifiseer dat

GA Botha

attended a Short Learning Programme (five days) | 'n Kort Leerprogram (vyf dae),
presented by the Centre for Environmental Management, | aangebied deur die Sentrum vir Omgewingsbestuur,
University of the Free State, | Universiteit van die Vrystaat,
during the period 14 to 18 July 2014. | vanaf 14 tot 18 Julie 2014 bygewoon het.

INTRODUCTION TO GIS & GPS | INLEIDING TOT GIS & GPS

Code | Kode

GISA1500S

CREDITS: 4* | KREDIETE: 4*
NQF LEVEL: 5 | NKR-VLAK: 5

CONTENT OF THE SHORT LEARNING PROGRAMME

History and theory of GIS and GPS
Spatial data structures
Spatial data symbolisation, analysis and interpretation
Map design

INHOUD VAN DIE KORT LEERPROGRAM

Geskiedenis en teorie van GIS en GPS
Ruimtelike datastrukture
Simbolisering, ontleding en interpretasie van ruimtelike data
Ontwerp van kaarte

LEARNING OUTCOMES

The attendee is able to:
Understand key terms, facts, principles and theories
Apply techniques to represent spatial data
Solve problems using relevant GIS and GPS technology
Access, process and manage spatial data sheets
and present spatial data in the form of maps

LEERUITKOMSTE

Die deelnemer is in staat om:
Sleutel terme, beginsels en teorieë te begryp
Tegnieke toe te pas om ruimtelike data voor te stel
Probleme op te los met behulp van toepaslike GIS en GPS tegnologie
Ruimtelike datavelle te bekom, verwerk en bestuur
en ruimtelike data in die vorm van kaarte voor te stel

Prof. NJL Heideman
Dean / Dekaan

Me. MF Avenant
Programme Director / Programdirekteur

23 July 2014
Bloemfontein



Certificate number/Sertifikaatnommer: GISA1500S013

*Not credit-bearing towards a UFS qualification/module/Nie-kredietdraend tot 'n UV-kwalifikasie/module nie

*Recognition is hereby given to
Hiermee word erkenning verleen aan*

GA Botha

*for excellent academic achievement
vir voortreflike akademiese prestasie*



Dekaan

23 April 2009

Datum



UNIVERSITEIT VAN DIE VRYSTAAT
UNIVERSITY OF THE FREE STATE
YUNIVESITHI YA FREISTATA

Curriculum Vitae: Dr. D. J. van Niekerk

GENERAL

Name: Danil Johan van Niekerk

I.D. number: 710709 5081 085

Date of birth: 9 July 1971

Place of birth: Bloemfontein, South Africa

Contact details:

P.O. Box 11987, Universitas, 9321, SOUTH AFRICA

E-mail: djvnemail@gmail.com

Cell phone: +27724450318

TERTIARY QUALIFICATIONS

- » B. Sc. (Biochemistry and Zoology). University of the Free State (1994)
- » B. Sc. Honours in Zoology. University of the Free State (1995)
- » M. Sc. in Zoology with distinction. University of the Free State (2000)
- » Ph.D. in Zoology. University of the Free State (2009)

Additional courses:

- » Taxidermy course. National Museum, Bloemfontein. June 1988.
- » EIA, Centre for Environmental Management, University of the Free State, January 2006

WORK EXPERIENCE

Savannah Environmental	Avifauna specialist	Since 2015
Environamics Environmental Consultants	Avifauna specialist	2015
Tlokoeng Valley Biodiversity Conservation Project (Lesotho)	Project manager for the biological component	Since 2012
Nare Sereto CC	Avifauna specialist	Since 2012
Enviroworks	Avifauna specialist	Since 2009
Gold Fields Limited (Beatrix mine)	Avifauna specialist	2008
Syngenta	Trainer of personnel in Brazil for conducting risk assessment studies	2010
	Project manager for risk assessment studies	2006–2007; 2010–2011
Conserving Mountain Biodiversity in Southern Lesotho (UNDP project)	Project manager for bird component	2003–2004

Lesotho Highlands Development Authority	Project manager for bird component of monitoring and faunal rescue at Mohale Dam	2002-2003
University of the Free State	Research associate Temporary lecturer Laboratory assistant	2010-2012 2006-2007 1995-2005 & 2008-2009

Specialist reports:

- » Van Niekerk, D.J. 2002. Birds. In: Biological Resource Monitoring Contract LHDA 1053: Annual Report 2001/2002 (ed. C. Mokuku). NUL-CONSULS, Maseru, Lesotho.
- » Van Niekerk, D.J. 2003. Birds. In: Contract LHDA 1053: Biological Resource Monitoring. Final report. NUL-CONSULS, Maseru, Lesotho.
- » Van Niekerk, D.J. 2003. Faunal Rescue at Mohale Dam: December 2003 report on birds. NUL-CONSULS, Maseru, Lesotho.
- » Van Niekerk, D.J. 2004. CMBSL bird report for the period November 2003. Report to the UNDP funded Conserving Mountain Biodiversity in Southern Lesotho Project.
- » Van Niekerk, D.J. 2004. CMBSL bird report (May 2004 draft). Report to the UNDP funded Conserving Mountain Biodiversity in Southern Lesotho Project.
- » Van Niekerk, D.J. 2007. The risk of wildlife consuming planted *Zea mays* seeds: A South African perspective. A study commissioned by Syngenta.
- » Van Niekerk, D.J. 2008. Beatrix, Birds and BAD cyanides: First assessment for the International Cyanide Management Code Operations Principle.
- » Van Niekerk, D.J. 2009. The impact of development in the Vaalbank Spruit section of Erfenis Dam on birds. Report to Enviroworks CC.
- » Van Niekerk, D.J. 2009. Potential impact of proposed new 66 kV powerline in the Buffeljags area on birds. Report to Enviroworks CC.
- » Van Niekerk, D.J. 2010. Potential impact of proposed installation of 2 x 20 MVA 88/11 kV transformers at the new Barcelona substation on birds. Report to Enviroworks CC.
- » Van Niekerk, D.J. 2010. Potential impact of proposed 132kV inter-connector line at Thabong on birds. Report to Enviroworks CC.
- » Van Niekerk, D.J. 2010. Animals on recently planted corn (*Zea mays*) fields in Brazil: An abridged report on the September 2010 survey. Report to Syngenta.
- » Van Niekerk, D.J. 2011. Potential impact of the proposed 132 kV double circuit powerline at Botshabelo on birds. Report to Enviroworks CC.
- » Van Niekerk, D.J. 2012. Avicta treated *Zea mays* seed: Is South African wildlife at risk? A study commissioned by Syngenta.

- » Van Niekerk, D.J. 2012. Potential impact of the proposed 132 kV double circuit powerline at Botshabelo on birds: November 2012 update. Report to Enviroworks CC.
- » Van Niekerk, D.J. 2012. Potential impact of the proposed SolFocus concentrator photovoltaics near Prieska, Northern Cape, on birds. Report to Nare Sereto CC.
- » Van Niekerk, D.J. 2013. Potential impact of the proposed 75MW First Solar CdTe photovoltaics development near Prieska, Northern Cape, on birds. Report to Nare Sereto CC.
- » Van Niekerk, D.J. 2013. Avifaunal impact assessment for proposed Cecilia substation and power line. Report to Enviroworks CC.
- » Van Niekerk, D.J. 2015. The status of birds in Tlokoeng Valley, northern Lesotho: July 2012 -- June 2014. A report to the Environmental & Sustainability Education Network of Lesotho.
- » Van Niekerk, D.J. 2015. Desktop Avifaunal Assessment for the proposed Harvard to Noordstad power line, Bloemfontein. Report to Enviroworks CC.
- » Van Niekerk, D.J. 2015. Avifaunal Impact Assessment report for the proposed extension of the Bokamoso Photovoltaic Solar Energy Facility near Leeudoringstad, North West Province. Report to Environamics Environmental Consultants.
- » Van Niekerk, D. J. 2016. Feasibility study for the proposed construction of the Semonkong Wind Farm in Lesotho: Avifauna. Report to Savannah Environmental.

CONFERENCE CONTRIBUTIONS

- » Van Niekerk, D.J. & Kok, O.B. 1995. Daaglikse aktiwiteite van die Vlaktelewerik *Chersomanes albobfasciata*. Oral presentation during S.A. Academy Symposium, Section Biology, at Stellenbosch.
- » Colahan, B.D. & Van Niekerk, D.J. 2008. The Lesser Kestrel at communal roosts in the Free State, South Africa --- a coordinated survey. 12th Pan-African Ornithological Congress, South Africa, 7--12 September 2008.
- » Van Niekerk, D.J. 2008. The activity patterns of birds in the central Free State, South Africa. 12th Pan-African Ornithological Congress, South Africa, 7--12 September 2008.

SCIENTIFIC ARTICLES IN INTERNATIONALLY ACCREDITED JOURNALS

- » De Swardt, D.H. & Van Niekerk, D.J. (1996). An annotated checklist of the birds of Qwa-Qwa National Park. *Koedoe* 39(1):89--106.
- » Belozerov, V.N., Van Niekerk, D.J. & Butler, H.J.B. (2003). Population structure of *Argas arboreus* (Acari: Argasidae) ticks associated with seasonally abandoned mixed heronries, dominated by Cattle Egrets (*Bubulcus ibis*), in South Africa. *Onderstepoort Journal of Veterinary Research* 70:325--330.

- » Van Niekerk, D.J., Fourie, L.J. & Horak, I.G. 2006. Birds as hosts of immature ixodid ticks in Free State Province, South Africa. *Onderstepoort Journal of Veterinary Research* 73:123-130.

SCIENTIFIC ARTICLES IN NON-ACCREDITED JOURNALS

- » Van Niekerk, D.J. 1994. The Turnstone *Arenaria interpres* in the Orange Free State. *Mirafra* 11(1):23--24.
- » Van Niekerk, D.J. 1994. Molt in immature male Lesser Kestrels *Falco naumanni*. *Mirafra* 11(2):30--31.
- » Van Niekerk, D.J. 1996. Albino Pied Starling *Spreo bicolor* (Sturnidae) with some notes on albinism in the Motacillidae. *Mirafra* 13(1):9--10.
- » Van Niekerk, D.J. 1996. The status and distribution of the Blackbreasted Snake Eagle *Circaetus pectoralis* (Smith) in the Orange Free State, South Africa, with some notes on movements in the rest of southern Africa. *Mirafra* 13(2):32--49.
- » Kok, O.B., Haddad, C.R., Van Niekerk, D.J., Butler, H.J.B. & Nawaz, M.A. 2005. Invertebrates as a potential food source of brown bears on the Deosai Plateau, Northern Pakistan. *Pakistan Journal of Biological Sciences* 8(1):13--19.
- » Van Niekerk, D.J. 2005. Nocturnal behaviour of diurnal birds when disturbed. *Afring News* 34(2):85-87

CURRICULUM VITAE: D G Paterson

SURNAME: PATERSON
FIRST NAME(S): David Garry
KNOWN AS: Garry
DATE OF BIRTH: 25-08-1959 in Bellshill, Scotland
NATIONALITY: South African
I.D. No.: 5908255258088
LANGUAGE PROFICIENCY: English, Afrikaans (both fluent), French (poor)
MARITAL STATUS: Married, one son

ADDRESS: Institute for Soil, Climate and Water **TEL.:** (012) 310 2601
Private Bag X79 083 556 2458
Pretoria 0001
Republic of South Africa **FAX:** (012) 323 1157

E-MAIL ADDRESS: garry@arc.agric.za

ACADEMIC QUALIFICATIONS:

- 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
- PhD (Soil Science), 2014, University of Pretoria

PROFESSIONAL CAREER:

- 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

FIELDS OF SPECIALITY AND COMPETENCE:

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

PUBLICATIONS (see attached list):

- Three refereed articles (S.A. Journal of Plant and Soil)
- Nine Congress papers/posters
- S.A. Soil Classification (1991) (Member of working group)
- Seven 1:250 000 Land Type Maps
- Three Land Type Memoirs
- More than 200 soil survey reports and/or maps

COURSES COMPLETED:

- Course in Project Management (University of Stellenbosch)
- Course in Junior Personnel Management (Dept of Agriculture)
- Course in Handling of Grievances and Complaints (Dept of Agriculture)
- Course in Marketing (ARC-ISCW)
- Course in National Qualifications Framework Assessment, ARC-CO
- Training Course in Ground Penetrating Radar (GSSI, USA)
- Introduction to ArcGIS 8, GIMS, 2004

PROFESSIONAL STATUS:

- Registered Natural Scientist: Soil Science (SA National Council for Natural Scientific Professions) – registration number 400463/04
- Member of South African Soil Classification Working Group, 1990-present
- Convenor of South African Soil Classification Working Group, 2013-
- Member of Soil Science Society of South Africa (1982-present)
- President of Soil Science Society of South Africa (2005-2007)
- Member of South African Soil Survey Organisation (2000-present)
- Council Member of South African Soil Survey Organisation (2002-2003)
- Member of International Erosion Control Association
- Scientific Referee, S.A. Journal for Plant and Soil
- External Examiner, University of Pretoria, University of Witwatersrand, University of Venda

AWARDS:

Best article on Soil Science, South African Journal for Plant and Soil, 2011

MISCELLANEOUS:

- Editor, Soil Science Society newsletter, 1993-present
- Member, Clapham High School (Pretoria) Governing Body 1998-2002
- Member, Northern Gauteng Football Referee's Association
- Committee Member, Rosslyn Golf Club (Club Champion 2002 and 2007)

INTERESTS:

Sport, especially golf and soccer; wildlife; reading; music

REFEREES:

Mr T.E. Dohse, ARC-Institute for Soil, Climate and Water.
Tel: 082 324 5389

Prof Robin Barnard, ARC-Institute for Soil, Climate and Water
Tel: 012 310 2549

Prof M.C. Laker (retired), (012) 361-2900; 082 785 5295

PUBLICATIONS LIST:

Refereed Articles:

BÜHMANN, C., KIRSTEN, W.F.A., PATERSON, D.G. & SOBCZYK, M.E., 1993. Pedogenic differences between two adjacent basalt-derived profiles. 1. Textural and chemical characteristics. *S. Afr. J. Plant & Soil*, 10: 155-161

BÜHMANN, C., KIRSTEN, W.F.A., PATERSON, D.G. & SOBCZYK, M.E., 1994. Pedogenic differences between two adjacent basalt-derived profiles. 2. Mineralogical characteristics. *S. Afr. J. Plant & Soil*, 11: 5-11

PATERSON, D.G. & LAKER, M.C., 1999. Using ground penetrating radar to investigate spoil layers in rehabilitated mine soils. *S. Afr. J. Plant & Soil*, 16:131-134.

PATERSON, D.G., BÜHMANN, C., PIENAAR, G.M.E. & BARNARD, R.O., 2011. Beneficial effect of palm geotextiles on inter-rill erosion in South African soils and mine dam tailings: a rainfall simulator study. *S. Afr. J. Plant & Soil*, 28: 181-189.

PATERSON, D.G. & BARNARD, R.O., 2011. Beneficial effect of palm geotextiles on inter-rill erosion in South African soils. *S. Afr. J. Plant & Soil*, 28: 190-197.

BHATTACHARYA, R., FULLEN, M.A., BOOTH, C.A., KERTESZ, A., TOTH, A., SZALAI, Z., JAKAB, G., KOZMA, K., JANKAUSKAS, B., JANKAUSKIENE, G., BÜHMANN, C., PATERSON, D.G., MULIBANA, N.E., NELL, J.P., VAN DER MERWE, G.M.E., GUERRA, A.J.T., MENDONCA, J.K.S., GUERRA, T.T., SATHLER, R., BEZERRA, J.F.R., PERES, S.M., ZHENG YI, LI YONGMEI, TANG LI, PANOMTARANICHAGUL, M., PEUKRAI, S., THU, D.C., CUONG, T.H., TOAN, T.T., 2011. Effectiveness of biological geotextiles for soil and water conservation in different agro-environments. *Land Degradation and Development*, 22: 495-504.

FULLEN, M.A., SUBEDI, M., BOOTH, C.A., SARSBY, R.W., DAVIES, K., BHATTACHARYA, R., KUGAN, R., LUCKHURST, D.A., CHAN, K., BLACK, A.W., TOWNROW, D., JAMES, T., POESEN, J., SMETS, T., KERTESZ, A., TOTH, A., SZALAI, Z., JAKAB, G., JANKAUSKAS, B., JANKAUSKIENE, G., BÜHMANN, C., PATERSON, D.G., MULIBANA, N.E., NELL, J.P., VAN DER MERWE, G.M.E., GUERRA, A.J.T., MENDONCA, J.K.S., GUERRA, T.T., SATHLER, R., BEZERRA, J.F.R., PERES, S.M., ZHENG YI, LI YONGMEI, TANG LI, PANOMTARANICHAGUL, M., PEUKRAI, S., THU, D.C., CUONG, T.H., TOAN, T.T., JONSYN-ELLIS, F., SYLVA, J.T., COLE, A., MULHOLLAND, B., DERALOVE, M., CORKILL, C. & TOMLINSON, P., 2011. Utilising biological geotextiles: introduction to the Borassus Project and global perspectives. *Land Degradation and Development*, 22: 453-462.

SMETS, T., POESEN, J., BHATTACHARYA, R., FULLEN, M.A., SUBEDI, M., BOOTH, C.A., KERTESZ, A., SZALAI, Z., TOTH, A., JANKAUSKAS, B., JANKAUSKIENE, G., GUERRA, A.J.T., BEZERRA, J.F.R., ZHENG YI, PANOMTARANICHAGUL, M., BÜHMANN, C. & PATERSON, D.G., 2011. Evaluation of biological geotextiles for reducing runoff and soil loss under various environmental conditions using laboratory and field data. *Land Degradation and Development*, 22: 480-494.

NETHONONDA, L.O., ODHIAMBO, J.J.O. & PATERSON, D.G., 2012. Indigenous knowledge of climatic conditions for sustainable crop production under resource-poor farming conditions using participatory techniques. *Sustainable Agriculture Research*, 2 (1), 26-31.

NETHONONDA, L.O., ODHIAMBO, J.J.O. & PATERSON, D.G., 2012. Assessment of spatial

variability of selected soil chemical properties in a communal irrigation scheme under resource-poor farming conditions in Vhembe District of Limpopo Province, South Africa. *African J. Agric. Res.* 7 (39), 5445-5492.

PATERSON, D.G., SMITH. H.J. & VAN GREUNEN, A., 2013. Evaluation of soil conservation measures on a highly erodible soil in the Free State province, South Africa. *S. Afr. J. Plant & Soil*, 30: 213-217.

PATERSON, D.G., TURNER, D.P., WIESE, L.D., VAN ZIJL, G.M., CLARKE, C.E. & VAN TOL, J., 2014. Spatial soil information in South Africa – situational analysis, limitations and challenges. *S. Afr. J. Science* (in press).

Books:

PATERSON, D.G. & MUSHIA, N.M., 2012. Chapter 32. Soil databases in Africa. *In: Handbook of Soil Science: Resource Management and Environmental Impacts (2nd Edn)*. Eds. P.M. Huang, Y Li & M.E. Sumner. CRC Press, Boca Raton FL.

SOIL CLASSIFICATION WORKING GROUP*, 1991. Soil classification. A taxonomic system for South Africa. Institute for Soil, Climate & Water, Pretoria.

* Co-author as member of Working Group

Theses:

PATERSON, D.G., 1998. The use of ground penetrating radar to investigate subsurface features in selected South African soils. Unpublished MSc Thesis, University of Pretoria.

PATERSON, D.G., 2014. The use of palm leaf mats in soil erosion control. Unpublished PhD Thesis, University of Pretoria.

Congress Papers:

PATERSON, D.G., 1987. The relationship between geology and soil type in the northern Kruger National Park. 14th Congress of the Soil Science Society of S.A. Nelspruit, 14-17 July 1987.

PATERSON, D.G., 1990. A study of black and red clay soils on basalt in the northern Kruger National Park. 16th Congress of the Soil Science Society of S.A. Pretoria, 9-12 July 1990.

PATERSON, D.G., 1992. The potential of ground penetrating radar as an aid to soil investigation. 17th Congress of the Soil Science Society of S.A. Stellenbosch, 28-30 Jan. 1992.

PATERSON, D.G., 1995. The complex soil mantle of South Africa. ARC Wise Land Use Symposium, Pretoria, 26-27 Oct. 1995

PATERSON, D.G. & LAKER, M.C., 1998. Locating subsoil features with ground penetrating radar. 21st Congress of the Soil Science Society of S.A. Alpine Heath, 20-22 Jan. 1998.

PATERSON, D.G., 2000. Mapping rehabilitated coal mine soils in South Africa using ground penetrating radar. Eighth International Conference on Ground Penetrating Radar, Gold Coast, Australia, 23-26 May 2000.

PATERSON, D.G. & VAN DER WALT, M., 2003. The soils of South Africa from the Land Type Survey. 24th Congress of the Soil Science Society of S.A., Stellenbosch, 20-24 Jan. 2003.

Land Type Maps:

PATERSON, D.G., 1990. 1:250 000 scale land type map 2230 Messina. Dept. Agriculture, Pretoria.

PATERSON, D.G. & HAARHOFF, D., 1989. 1:250 000 scale land type map 2326 Ellisras. Dept. Agriculture, Pretoria.

PATERSON, D.G., PLATH, B.L. & SMITH, H.W., 1987. 1:250 000 scale land type map 2428 Nylstroom. Dept. Agriculture, Pretoria.

PATERSON, D.G. & ROSS, P.G., 1989. 1:250 000 scale land type map 2330 Tzaneen. Dept. Agriculture, Pretoria.

PLATH, B.L. & PATERSON, D.G., 1987. 1:250 000 scale land type map 2426 Thabazimbi. Dept. Agriculture, Pretoria.

Land Type Memoirs:

PATERSON, D.G., PLATH, B.L. & SMITH, H.W., 1988. Field Investigation. In: *Land types of the maps 2426 Thabazimbi & 2428 Nylstroom. Mem. Agric. Nat. Res. S. Afr.* No. 10. Dept. Agriculture, Pretoria.

PATERSON, D.G., SCHOEMAN, J.L., TURNER, D.P., GEERS, B.C. & ROSS, P.G., 1989. Field Investigation. In: *Land types of the maps 2330 Tzaneen & 2430 Pilgrim's Rest. Mem. Agric. Nat. Res. S. Afr.* No. 12. Dept. Agriculture, Pretoria.

PATERSON, D.G., 1999. 1:250 000 land type survey of the former Ciskei (Unpublished). ISCW Report GW/A/99/24.

Also:

PATERSON, D.G., 1992. Ground penetrating radar applications in USA and South Africa. Report on an official study tour to USA, 13-29 July, 1991. ISCW Report GW/A/92/8.

PATERSON, D.G., 2000. Report on official overseas visit to GPR2000 Conference, Broadbeach, Australia, 23-26 May, 2000. ISCW Report GW/A/2000/40.

Plus ARC-ISCW Reports on:

- Ground penetrating radar investigations in: Kruger National Park; Enseleni, Natal; Weatherly, Maclear; Kleinkopje Mine
- Soil survey investigations at: Roodeplaat, Kathu, Steelpoort River, Palala River, Zeekoegat (Roodeplaat), Limpopo River, Lydenburg, Kendal, Clewer Sand (Witbank), Botha Sand (Witbank), Balmoral Colliery, Bafokeng (Rustenburg), Towoomba (Warmbaths), Hoefeld Stene (Middelburg), Quality Bricks (Witbank), Visagie Sand (Middelburg), Rosslyn, Coalbrook (Sasolburg), Stewart Coal (Delmas), Forzando Coal (Hendrina), Vaalgro (Vereeniging), Ratanda (Heidelberg), Elspark (Boksburg), Thorncliffe Mine (Steelpoort), Jan Smuts Quarry (Boksburg), Ennerdale (Phase I & II), Thokoza, North Riding, Natalspruit (Alberton), Arnot, Kroondal (Phase I & II), Ga-Rankuwa, Hartebeespoort Dam,

Kosmos, Assen, Grasmere, Magalies Moot (Pretoria), Valpre (Paulpietersburg), Cargo Carriers (Sasolburg), Waterval (Rustenburg), Rayton, Bronkhorstspuit, Zwavelpoort (Pretoria), Pietersburg, Trojan Mine (Steelpoort), Platinum Highway (Rustenburg), Moutse, Centurion, Salique (Klaserie), Northam, Greenside Colliery (Witbank), South Deep Mine (Westonaria), Bank Colliery, Steelpoort Platinum, Gautrain Route (Pta/Jbg), Rietspruit Mine (Ogies), Potgietersrus Platinum, Atok Mine (Lebowa), Blue Ridge Mine (Groblersdal), Ngodwana, Estancia (Breyton), Twickenham Mine (Steelpoort), Marikana.

CV Jaco van der Walt

PERSONAL PARTICULARS:

NAME: Jaco van der Walt
MARITAL STATUS: Married with two dependants
DATE OF BIRTH : 1977-11-04
Work Address 37 Olienhout Street, Modimolle, 0510
E-MAIL: jaco.heritage@gmail.com
MOBILE: +27 82 373 8491
FAX: +27 86 691 6461

SYNOPSIS

Jaco has been actively involved as a professional archaeologist within the heritage management field in southern Africa for the past 10 years. During this time he worked at world renowned South African Universities and also as a consultant in the private sector. This experience provided him with an excellent foundation to act as facilitator between the challenges that development poses on our non-renewable heritage resources while adhering to academic principles and complying with heritage legislation. He is currently owner and founder of Heritage Contracts and Archaeological CC where he is responsible for the overall business management of the unit that includes the planning and directing of heritage surveys, excavations, grave relocations and consultation with indigenous communities. He held key management roles in successful projects including amongst others Eskom's Spencer – Vunulu Power line and BHP Billiton's Hotazel Manganese Mine.

All projects were successfully completed within required deadlines as well as budgets and complied with Heritage Regulator's legal parameters.

Jaco acted as council member for the Association of Southern African Professional Archaeologist (ASAPA Member #159) in the Cultural Resource Management (CRM) portfolio for two years (2011 - 2012) and is an accredited cultural resource management consultant with the ASAPA, AMAFA / Heritage Kwazulu Natal and the South African Heritage resources agency (SAHRA). Jaco was also a Research Associate with the University of Johannesburg from 2011 – 2013. He is well respected in his field and published in peer reviewed journals and presented his findings on various national and international conferences.

ACADEMIC QUALIFICATIONS:

Date of matriculation: 1995
Particulars of degrees/diplomas and/or other qualifications:
Name of University or Institution: University of Pretoria
Degree obtained : BA
Major subjects : Archaeology
Cultural Heritage Tourism
Year of graduation : 2001

Name of University or Institution: University of the Witwatersrand
Degree obtained : BA [Honours]
Major subjects : Archaeology
Year of graduation : 2002

Name of University or Institution : University of the Witwatersrand
Degree Obtained : BA [Masters]
Major subject : Archaeology
Year of Graduation : 2012

EMPLOYMENT HISTORY:

2011 – Present:	Owner - Heritage Contracts and Archaeological Consulting CC.
2007 – 2010 :	CRM Archaeologist , Managed the Heritage Contracts Unit at the University of the Witwatersrand.
2005 - 2007:	CRM Archaeologist , Director of Matakoma Heritage Consultants
2004:	Technical Assistant , Department of Anatomy University of Pretoria
2003:	Archaeologist , Mapungubwe World Heritage Site
2001 - 2002:	CRM Archaeologists , For R & R Cultural Resource Consultants, Polokwane
2000:	Museum Assistant , Fort Klapperkop.

MEMBERSHIP OF PROFESSIONAL ASSOCIATIONS:

- Association of Southern African Association Professional Archaeologists. Member number 159
- Association of Southern African Association Professional Archaeologists Cultural Resource Management Section
Accreditation: Field Director Iron Age Archaeology
Field Supervisor – Colonial
Period Archaeology, Stone Age Archaeology
and Grave Relocation
- Accredited CRM Archaeologist with SAHRA
- Accredited CRM Archaeologist with AMAFA
- Co-opted council member for the CRM Section of the Association of Southern African Association Professional Archaeologists (2011 – 2012)

Countries of work experience:

Republic of South Africa, Botswana, Zimbabwe, Mozambique, Tanzania and Democratic Republic of the Congo.

REFERENCES:

1. Dr Marlize Lombard
Senior Lecturer, Department of Anthropology and Development Studies, University of Johannesburg, South Africa
Tel: +2783 757 5675
E-mail: mlombard@uj.ac.za
2. Prof TN Huffman
Department of Archaeology
Tel: (011) 717 6040
School of Geography, Archaeology and Environmental Studies
University of the Witwatersrand

CURRICULUM VITAE

ELIZE BUTLER

PROFESSION: Palaeontologist

YEARS' EXPERIENCE: 23 years in Palaeontology

EDUCATION: B.Sc Botany and Zoology, 1988
University of the Orange Free State

B.Sc (Hons) Zoology, 1991
University of the Orange Free State

Management Course, 1991
University of the Orange Free State

M. Sc. *Cum laude* (Zoology), 2009
University of the Free State

Dissertation title: THE POSTCRANIAL SKELETON OF THE EARLY TRIASSIC
NON-MAMMALIAN CYNODONT *GALESAURUS PLANICEPS*: IMPLICATIONS
FOR BIOLOGY AND LIFESTYLE

Registered as a PhD fellow at the Zoology Department of the UFS

2013 to current

Dissertation title: A NEW GORGONOPSID FROM THE UPPERMOST
DICYNODON ASSEMBLAGE ZONE, KAROO BASIN OF SOUTH
AFRICA

MEMBERSHIP

Palaeontological Society of South Africa (PSSA)

2006-currently

EMPLOYMENT HISTORY

Part time Laboratory assistant

Department of Zoology &
Entomology University of the Free
State Zoology 1989-1992

Part time laboratory assistant

Department of Virology

University of the Free State Zoology
1992

Research Assistant

National Museum, Bloemfontein

1993 – 1997

Principal Research Assistant

National Museum, Bloemfontein

and Collection Manager

1998 – currently

TECHNICAL REPORTS

PIA desktop: Palaeontological Impact Assessment of the proposed development of private dwellings on portion 5 of farm 304 Matjesfontein Keurboomstrand, Knysna District, Western Cape Province. 2014.

PAI site visit and report: Palaeontological Impact Assessment for the proposed upgrade of existing water supply infrastructure at Noupoot, Northern Cape Province. 2014.

PIA desktop: Palaeontological impact assessment of the proposed consolidation, re-division and development of 250 serviced erven in Nieu-Bethesda, Camdeboo local municipality, Eastern Cape. 2015.

PAI site visit and report: Palaeontological impact assessment of the proposed mixed land developments at Rooikraal 454, Vrede, Free State. 2015.

PIA exemption report: Palaeontological exemption report of the proposed truck stop development at Palmiet 585, Vrede, Free State. 2015.

PAI site visit and report: Palaeontological impact assessment of the proposed Orange Grove 3500 residential development, Buffalo City Metropolitan Municipality East London, Eastern Cape. 2015.

PAI site visit and report: Palaeontological Impact Assessment of the proposed Gonubie residential development, Buffalo City Metropolitan Municipality East London, Eastern Cape Province. 2015.

PAI site visit and report: Palaeontological Impact Assessment of the proposed Ficksburg raw water pipeline. 2015

PAI site visit and report: Palaeontological Heritage Impact Assessment report on the establishment of the 65 mw Majuba Solar Photovoltaic facility and associated infrastructure on portion 1, 2 and 6 of the farm Witkoppies 81 HS, Mpumalanga Province. 2015.

PAI site visit and report: Palaeontological Impact Assessment of the proposed township establishment on the remainder of portion 6 and 7 of the farm Sunnyside 2620, Bloemfontein, Mangaung metropolitan municipality, Free State Bloemfontein. 2015.

PIA desktop: Palaeontological Impact Assessment of the proposed Woodhouse photovoltaic solar energy facilities and associated infrastructure on the farm Woodhouse729, near Vryburg, North West Province. 2015.

PIA desktop: Palaeontological Impact Assessment of the proposed Orkney solar energy farm and associated infrastructure on the remaining extent of Portions 7 and 21 of the farm Wolvehuis 114, near Orkney, North West Province. 2015.

PIA desktop: Palaeontological Impact Assessment of the proposed Spectra foods broiler houses and abattoir on the farm Maiden Manor 170 and Ashby Manor 171, Lukhanji Municipality, Queenstown, Eastern Cape Province. 2015.

CONFERENCE CONTRIBUTIONS

NATIONAL

PRESENTATION

Butler, E., Botha-Brink, J., and F. Abdala. A new gorgonopsian from the uppermost *Dicynodon Assemblage Zone*, Karoo Basin of South Africa. 18th Biennial conference of the PSSA 2014. Wits, Johannesburg, South Africa.

INTERNATIONAL

Attended the Society of Vertebrate Palaeontology 73th Conference in Los Angeles, America. October 2012.

CONFERENCES: POSTER PRESENTATION

NATIONAL

Butler, E., and J. Botha-Brink. Cranial skeleton of *Galesaurus planiceps*, implications for biology and lifestyle. University of the Free State Seminar Day, Bloemfontein. South Africa. November 2007.

Butler, E., and J. Botha-Brink. Cranial skeleton of *Galesaurus planiceps*, implications for biology and lifestyle. 14th Conference of the PSSA, Matjiesfontein, South Africa. September 2008:

Butler, E., and J. Botha-Brink. The biology of the South African non-mammaliaform cynodont *Galesaurus planiceps*. 15th Conference of the PSSA, Howick, South Africa. August 2008.

INTERNATIONAL VISITS

Natural History Museum, London

July 2008

Paleontological Institute, Russian Academy of Science, Moscow

November 2014

CURRICULUM VITAE

JONATHAN H. MARSHALL

Landscape Architect and Environmental Assessment Practitioner for Environmental Planning & Design cc

SKILLS BASE AND CORE COMPETENCIES

- Chartered Landscape Architect (UK).
- Certified Environmental Assessment Practitioner of South Africa.
- Visual Impact Assessment utilising the the Government of the Western Cape Guideline for Involving Visual and Aesthetic Specialists in EIA Processes and the Landscape Institute and Institute of Environmental Management and Assessment (UK) Guidelines for Landscape and Visual Impact Assessment.

EMPLOYMENT HISTORY

- Landscape Assistant, WS Atkins (UK) 1979 – 1981.
- Landscape Architect, Brian Clouston and Partners (Hong Kong) 1981 – 1989.
- Director, Brian Clouston and Partners (Australia) 1989 - 1990.
- Principal Landscape Architect, Gillespies (UK) 1990 – 1992.
- Principal, Opus Environment (UK) 1992 – 1995.
- Director, Environmental Design Partnership (SA) 1995 – 1998.
- Principal, Environmental Planning and Design (SA) 1998 – present.

TERTIARY EDUCATION

- Diploma in Landscape Architecture, Gloucestershire College of Art and Design, UK (1979).
- Environmental Law Short Course, University of KZN (1997)

SELECTED RELEVANT PROJECT EXPERIENCE

Visual impact assessments for developments in the Hong Kong, the UK, Ghana Guinea, Gauteng, Free State, KwaZulu-Natal, Mpumalanga. Examples of larger projects include:

- Solar plant projects including photovoltaic and concentrating solar power plants – Numerous projects for Eskom and private clients in the Northern Cape, Limpopo, Mpumalanga and the Free State.
- Proposed new mines and tailings facilities associated with existing mines in Ghana and Guinea.
- Four major shopping centre developments including projects in the UK and South Africa.
- A new international airport development to the north of Durban.
- Heavy industrial developments including a ferrochrome smelter in Richards Bay.
- Numerous new road and road upgrade proposals including projects in Hong Kong, the UK and South Africa.
- Long term landfill planning in the Durban area.
- Numerous power line proposals including projects for Eskom in the Free State and KwaZulu Natal.
- Aesthetic guideline documents including building massing in Hong Kong, development around estuaries in KwaZulu Natal.
- The provision of visual impact assessments as evidence for legal processes including parliamentary debate (UK), public enquiry (UK) and planning appeal (South Africa)
- Review of specialist reports prepared by other experts.

CURRICULUM VITAE CANDICE HUNTER

Profession : Social Consultant
Specialisation : Social Impact Assessments (SIA)
Years' experience : 1 year and 9 month

KEY RESPONSIBILITIES

Specific responsibilities as a Social Consultant involve conducting field research; socio-economic surveys; the management and analysis of data; undertaking stakeholder engagement and communication processes; socio-economic baseline data analyses and conducting general social research for a variety of projects. This includes managing and coordinating the Social Impact Assessment (SIA) processes and compiling SIA reports in line with the countries guidelines and legislation.

SKILLS BASE AND CORE COMPETENCIES

- Social Impact Assessments (SIA)
- EIA Legislation
- Data gathering and analysis
- Qualitative and quantitative social research
- Field research and socio-economic surveys
- Baseline socio-economic data analyses
- Stakeholder engagement
- Public participation process
- Communication and community facilitation
- Report writing and review
- Project administration

EDUCATION AND PROFESSIONAL STATUS

Degrees:

- » M. A. Environmental Management: University of Johannesburg (2013)
- » B.A. Honours Tourism Development (Cum Laude): University of Johannesburg (2010)

Courses:

- » Advanced Certificate in Social Impact Assessment (SIA) (Cum Laude): University of Johannesburg (2013)
- » Certificate in Global Reporting Initiative (GRI), Sustainability Reporting Process: Environmental & Sustainable Solutions CC (2012)

Publications:

- » Hunter, C. & Mearns, K. (2015). Assessing the sustainability reporting of selected tourism companies listed on the Johannesburg Stock Exchange (JSE). *African Journal of Hospitality, Tourism and Leisure*, 4(1): 1-18. Publication URL:
http://www.ajhtl.com/uploads/7/1/6/3/7163688/article_51_vol.4_1_2015.pdf

EMPLOYMENT

January 2014 – Current:

Savannah Environmental (Pty) Ltd: Social Consultant

February 2011 – January 2013:

University of Johannesburg: Department of Geography, Environmental and Energy Studies & School of Tourism and Hospitality (STH): Student and Research Assistant.

PROJECT EXPERIENCE

Social Impact Assessment Reports:

- » January 2014: Specialist SIA study for the proposed Gihon Solar Energy Facility & Associated Infrastructure Located near Bela-Bela, Limpopo Province (for Networx SA)
- » March 2014: Specialist social scoping study for the proposed Exheredo Photovoltaic (PV) Solar Energy Facility and associated infrastructure located near Kenhardt, Northern Cape Province (for Kotulo Tsatsi Energy (Pty) Ltd)
- » May 2014: Specialist social scoping study for the proposed Wolmaransstad Municipality Solar Energy Facility and associated infrastructure near Wolmaransstad, North West Province (for Bluewave Capital (Pty) Ltd)
- » July 2014: Specialist SIA study for the proposed Newcastle Solar Energy Facility near Newcastle, KwaZulu Natal (for Building Energy SpA)
- » July 2014: Specialist SIA study for the proposed Pongola Solar Energy Facility near Pongola, KwaZulu Natal (for Building Energy SpA)
- » July 2014: Specialist SIA study for the proposed Senekal 1 Solar Energy Facility near Mkuze, KwaZulu Natal (for Building Energy SpA)
- » July 2014: Specialist SIA study for the proposed Senekal 2 Solar Energy Facility near Mkuze, KwaZulu Natal (for Building Energy SpA)
- » October 2014: Specialist SIA study for the proposed Kotulo Tsatsi Energy Concentrated Solar Power (CSP) Tower Plant 3 facility and associated infrastructure located near Kenhardt, Northern Cape Province (for Kotulo Tsatsi Energy (Pty) Ltd)
- » November 2014: Specialist social scoping study for the proposed Lethabo Solar Energy Facility and associated infrastructure near Sasolburg, Free State Province (for Eskom Holdings (SOC) Limited)
- » November 2014: Specialist social scoping study for the proposed Majuba Solar Energy Facility and associated infrastructure near Amesforort, Mpumalanga Province (for Eskom Holdings (SOC) Limited)

Social Impact Assessment Reports:

- » November 2014: Specialist social scoping study for the proposed Tutuka Solar Energy Facility and associated infrastructure near Standerton, Mpumalanga Province (for Eskom Holdings (SOC) Limited)
- » December 2014: Specialist social scoping study for the proposed 120MW CPV Facility and associated infrastructure near Upington, Northern Cape Province (for Lambrius Energy (Pty) Ltd)
- » February 2015: Specialist SIA study for the proposed realignment of the N10 to facilitate access to the Ilanga CSP Facility site, east of Upington, Northern Cape Province (for SANRL)
- » March 2015: Specialist social scoping study for the proposed Beaufort West Solar Power Plant 1 near Beaufort West, Western Cape Province (for Beaufort West Solar Company 1 (Pty) Ltd)
- » March 2015: Specialist social scoping study for the proposed Beaufort West Solar Power Plant 2 near Beaufort West, Western Cape Province (for Beaufort West Solar Company 2 (Pty) Ltd)
- » March 2015: Specialist social scoping study for the proposed Beaufort West Solar Power Plant 3 near Beaufort West, Western Cape Province (for Beaufort West Solar Company 3 (Pty) Ltd)
- » June 2015: Specialist social scoping report for the proposed Buffels Solar 1 and Solar 2 Solar Energy Facilities, near Orkney, North West Province (for Kabi Solar (Pty) Ltd)
- » July 2015: Specialist SIA study for the proposed Lethabo Solar Energy Facility and associated infrastructure near Sasolburg, Free State Province (for Eskom Holdings (SOC) Limited)
- » July 2015: Specialist SIA study for the proposed Majuba Solar Energy Facility and associated infrastructure near Amesforort, Mpumalanga Province (for Eskom Holdings (SOC) Limited)
- » July 2015: Specialist SIA study for the proposed Tutuka Solar Energy Facility and associated infrastructure near Standerton, Mpumalanga Province (for Eskom Holdings (SOC) Limited)
- » August 2015: Specialist social scoping report for the proposed Paulputs CSP Tower Facility and associated infrastructure, near Pofadder, Northern Cape Province (for Abengoa Solar Power South Africa (Pty) Ltd)
- » September 2015: Specialist SIA study for the proposed AEP Bloemsmond Solar 1 and Solar 2 PV Facilities, near Upington, Northern Cape Province (for AEP Bloemsmond Solar 1 (Pty) Ltd)

Other Projects:

- » June 2014: Screening and pre-feasibility report- Site assessment for the proposed Wind Energy Facility near Van Reenen, KwaZulu Natal and Free State Provinces (for 4Green Development SA)