

CURRICULUM VITAE

Company Name	Arcus GIBB
Nationality	Deshika KATHAWAROO
Date of Birth	South African
Profession	21.11.1977
Position	Environmental Scientist
Specialisation	Senior Environmental Scientist
	Project management, integrated environmental management including environmental impact assessments, environmental management programmes, environmental risk assessment, legal compliance audits
Start date with Arcus GIBB	2008 – Permanent full-time staff member

Key Experience

A senior environmental scientist with five years of professional, full-time consulting experience, Deshika Kathawaroo specialises in integrated environmental management.

Her key experience includes:

- **Project management** of various medium and large-scale environmental impact assessment projects
 - **Environmental advisory services** including opinions and reviews
 - **Environmental impact assessments (EIA)** of small, medium and large-scale projects
 - **Environmental management plans (EMP)** for the construction and operational phases of infrastructural developments
 - **Environmental monitoring and compliance auditing** including many large and small scale developments ranging from industrial facilities to residential developments and golf estates
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Qualifications

Master of Science (Ecophysiology) Distinction : School of Animal, Plant and Environmental Science, University of the Witwatersrand, 2005

Thesis was awarded the Grasslands Prize for 2005 : Faculty of Science (Wits) 28th Annual Prize Giving Ceremony, 2006

Bachelor of Science (Honours in Botany) : University of Cape Town, 2000

Bachelor of Science with majors in Botany, Zoology and Environmental and Geographical Science, University of Cape Town, 1999

Professional Member of the South African Council for Natural and Scientific Professions, 2009

PriSciNat Registration No : 400045/09

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Courses and Conferences

- Carbon Trading Opportunities in South Africa: Opportunities and Technologies held at PricewaterhouseCoopers, Sunninghill on the 10th July 2008
 - UNISA/United Kingdom (UK) Dialogue Lecture Series: Engaging with the Next Generation, where I presented the findings of the climate change group discussions to the Foreign Secretary of the UK, Rt Hon David Miliband MP, held at UNISA and at the Presidential Guest House in Pretoria on the 7th and 8th July 2008, respectively. Out of four presentations to the ministers, based on the group discussions, it was only the recommendations posed by the climate change group that were incorporated into the negotiated agreements between South Africa and the UK as documented in the Communiqué
 - Climate Change Summit hosted by the South African Local Government Association held at Nasrec on the 2nd and 3rd June 2008
 - Africa Day Conference held at the UNISA on the 30th May 2008
 - Reducing the Carbon Footprint course held at the University of Cape Town's Graduate School of Business in Cape Town from the 12th - 14th May 2008
 - Writing a Good Thesis presented by Dr Erik Hofstee of Exactica Consulting held at UNISA, from the 5th - 7th May 2008
 - Clean Development Mechanism, conference held at the Castle, Kyalami 30th and 31st January 2007
 - Centre for Sustainability in the mining industry. Linking Industry, Biodiversity Action and Poverty Relief for a Sustainable Environment held at the University of the Witwatersrand between the 22nd and 24th February 2006
 - Chamber of Mines of South Africa. Mining for sustainable development conference held at the Castle, Kyalami on the 16th and 17th November 2005
 - Centre for Sustainability in the mining Industry. Air Quality Management Colloquium held at the University of the Witwatersrand on the 14th June 2005
 - ISO14001 Auditing course held at WSP Walmsley during June 2004
 - Postgraduate course on Modeling Carbon dynamics in forests systems held in Vindeln, Umea, Sweden from the 13th to 25th July 2003. The course was sponsored by the Swedish International Development Cooperation Agency (SIDA) and the South African Research Foundation
 - Forest Science Symposium held in Stellenbosch on the 2nd May 2003
 - Postgraduate course on Estimating nutrient dynamics and productivity in South African plantations, held in Wartburg, KwaZulu Natal, from the 24th November to 6th December 2002. The course was sponsored by SIDA and the South African Research Foundation
 - Eucalyptus saw-timber symposium held in Pietermaritzburg on the 23rd October 2002
 - A soil classification course held in Sabie, Mpumalanga, on the 16th and 17th October 2002
 - The Wood for Africa conference held in Pietermaritzburg from the 1st - 4th July 2002
 - Theory and Practise of Stable Light Isotope Spectrometry, course held at the University of Cape Town in the Archaeology department from the 19th - 23rd June 2000
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Career Summary

- Sep 2008 to date **Arcus GIBB** – Senior Environmental Scientist
- Nov 2007 to Jan 2008 **Arcus GIBB** – Senior Environmental Scientist
- Projects include:
- Project scientist as part of the Environmental Technical Support Team to the Gauteng Provincial Government for the R20 million Gautrain Project. Technical support will be provided during the construction and operational phases of this flagship transport service
 - Project scientist for the EIA and EMP for the proposed construction of a conventional nuclear power station and associated infrastructure in the Western Cape (Nuclear 1). The project proponent is the Generation Division of Eskom Holdings Limited. The EIA includes the screening and selection of a suitable site for the nuclear plant, as well as a scoping process and detailed environmental impact assessment. The project includes 20 detailed specialist studies, including social and biophysical, public consultation, legal and nuclear technology studies
- May 2006 to Oct 2007 **Strategic Environmental Focus** - Project Manager
- Tasks included:
- Compilation of EIAs and Environmental Management Plans/Programmes
 - Mentoring and skills transfer
 - Project management, including specialists and other colleagues and team members
 - Marketing and compilation of proposals and tenders
 - Interfacing with government officials and clients
- Duties included:
- Compilation, coordination and management of numerous EIA, Scoping Reports, Management plans, as required by the Mineral and Petroleum Resources Development Act, 2002 (Act No. 28 of 2002); the National Environmental Management Act, 1998 (Act No. 107 of 1998) and the Environment Conservation Act, 1989 (Act No. 73 of 1989)
 - Review and development of terms of reference for various specialist reports
- Sept 2004 to April 2006 **Synergistics Environmental Services** – Environmental Scientist
- Tasks included
- Environmental impact assessment and scoping processes
 - Environmental management plans and environmental control officer
 - Project management, including specialists and other team members
 - Interfacing with government officials, stakeholders, public and clients
 - General office and business management
 - GIS-based environmental management frameworks and other decision-support systems

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April 2004 to
Sept 2004 **WSP Walmsley** - Full-time Junior Consultant

Tasks included

- Compilation of environmental scoping reports, exemption applications
- Sampling and monitoring of water quality for the collation of baseline data

April 2002
Dec 2003 **WSP Walmsley** - Part-time Consultant (Bursary Student)

Tasks included:

- Research assistant for various EIAs

2001 to 2004 **University of the Witwatersrand** - Full-time Research, Laboratory and General Assistant for Professor Mary C Scholes and part-time teaching assistant

Tasks included:

- Research assistant and editor of scientific papers for publication
- Organisation of the Global Change and Terrestrial Ecosystems Forestry Workshop, held in November 2001 at the Wartburg Hotel, Pietermaritzburg, KwaZulu-Natal

Part-time teaching assistant for 1st and 2nd year BSc and College of Science students (2001 – 2003)

1999 to 2000 **University of Cape Town** - Part-time research assistant for Professors William J Bond & William D Stock

Tasks included:

- Research assist on projects aimed at understanding grassland dynamics of Zululand
- Derivation of semi-variograms for the spatial analyses of soil nutrients in Zululand
- Derivation of soil contour maps

Projects

Specialist Studies

- Project manager : specialist studies for the Edenvale Health Precinct. April 2007
Sep 2007

Legal Compliance

- Project manager : legal compliance for DMS Powders (Pty) Ltd. May 2006 to Sep 2007

Environmental Impact Assessment

- Project manager : EIA for the proposed Pellet Recovery Facility at Wapadskloof, Mpumalanga. Metmar. October 2006 to September 2007
- Project manager : EIA for the proposed Kalahari Manganese Mine, Northern Cape. Kalagadi Manganese. July 2006 to September 2007
- Project manager : EIA for the proposed Tabor Witkop 400 kV Transmission Power Line, Limpopo. Eskom. September 2006 to September 2007

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- Project manager : EIA for the proposed Royal Maluti Golf Estate, Free State. Royal Maluti Golf & Eco Estate (Pty) Ltd. July 2006 to June 2007

Environmental Management Programme

- Project manager : Environmental Management Programme reports for the borrow pits associated with the construction of the Vaal River Eastern Sub-system Augmentation Project, Mpumalanga. TCTA. July 2006 – September 2007

Environmental Risk Assessment

- Project manager : Environmental Risk Assessment for the proposed Edenvale Health Precinct, Gauteng. Seloane Consulting (Pty) Ltd. August 2006 - November 2006
- Environmental Assistant: Environmental Risk Assessments and Environmental Risk Management Considerations, Gauteng. Anglo Gold Ashanti (Pty) Ltd. October to September 2004

Pollution Assessment

- Project manager : Pollution Assessment for the proposed Wildtuinpark residential development, Gauteng. Brietze (Pty) Ltd. June 2006

Environmental Scoping Report

- Project manager : Environmental Scoping Report for the proposed Landfill Gas Extraction Facility at the Chloorkop General Landfill Site, Gauteng. EnviroServ. January 2006 - April 2006
- Project manager : Environmental Scoping Report for an amendment to the Environmental Management Programme Report, including Public Participation Processes, for the inclusion of a co-disposal waste disposal facility comprised of low sulphide tailings and waste rock, Mpumalanga. Nkomati Mine. November 2005 - January 2006
- Project manager : Environmental Scoping Reports for the proposed development of housing developments - Homes Haven Extensions 20, 23 and 24, Gauteng. Roodepoort Residensiële Ontwikkeling Bpk. September 2004 – December 2005
- Project assistant : project management of the Sishen South Iron Ore Mine, Input into the design and planning of a greenfield Sishen South Mine, Environmental Scoping Report, Ecological Impact Assessment and other ancillary approvals, Northern Cape. October to December 2005
- Project manager : Environmental Scoping Report for the proposed expansion of the railway servitude associated with the Sishen Expansion Project. Sishen Iron Ore Mine - Kumba Resources, Northern Cape. September 2004 - March 2005
- Environmental assistant : Environmental Scoping Report for the proposed upgrade of Koma Road, Soweto. Goba Moahloli Keeve Steyn, Gauteng. June 2004 - September 2004

Environmental Control Officer

- Project manager : Environmental Control Officer throughout the service related construction phase of the Meyersdal Nature Estate, the production and submission of monthly compliance reports to the provincial authorities, Gauteng. October 2004 - January 2006

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Other projects

- Environmental assistant : scoping study for the installation of Hydrogen Peroxide storage/dosing facility, Gauteng. Sappi Fine Paper (Pty) Ltd. June 2004
- Project manager : comparison of sites to provide technical input into the legal appeal process against the findings documented in the record of decision made by provincial government, Gauteng. January 2006
- Project manager : water quality monitoring for the collection of baseline data, Limpopo. Platreef Resources. April - September 2004
- Environmental assistant update of the Environmental Management Progress Report, Mpumalanga. Anglo Coal. April 2004

Language Capability

	Speaking	Reading	Writing
English	Excellent	Excellent	Excellent
Afrikaans	Good	Fair	Fair

Signature

Date
