

CURRICULUM VITAE

Company Name	GIBB
Nationality	Gisela FECHTER South African
Date of Birth	13.09.1961
Profession	Chemical Engineer
Position	Associate - Environmental/Chemical Engineer
Specialisation	Environmental impact assessment, auditing, management systems, industrial and environmental engineering
Start date with GIBB	2001 – Permanent full-time staff member

Key experience

A chemical engineer with 18 years of experience, Gisela Fechter specialises in environmental engineering, environmental assessments, environmental auditing and related projects. She was employed at ISCOR, ICI-UK and AECI before joining GIBB's Environmental Division

Her key experience includes:

- **Environmental management and planning**, including development and application of systems, problem solving and interaction with various stakeholders on a project management basis and compilation of management plans
- **Environmental impact assessment**, including scoping studies, public participation and coordination of specialist studies for a variety of services infrastructure, industrial and housing developments
- **Environmental auditing**, including Due Diligence and Health Safety and Environment Compliance audits of various industrial facilities
- **Process engineering for various liquid effluent systems** including effluent treatment systems, effluent disposal to rivers and the ocean
- **Water and wastewater system management and planning** including investigation, design and project management of integrated options and alternatives for water and wastewater management and treatment at Iscor (Mittal) Steel Works in Pretoria and at Kelvin Power Station in Kempton Park
- **Energy management engineering** for the planning, distribution and control of the various energy sources, various combustion gasses and steam at the Iscor Steel Works in Pretoria
- **Integrated waste management planning** for local municipalities
- **Project management** for various environmental, water and wastewater management projects on a client representative and consulting basis. Responsibilities included the development of technical scopes, planning and co-ordination of public participation, tendering, acquisition, technical evaluation and fiscal control

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Qualifications

Bachelor of Engineering in Chemical Engineering : University of Pretoria, 1986

Short courses:

- Hazard and Operability Study : ISHECON cc, August 2000
- Membrane Processes : University of Pretoria, September 2005
- Water Quality Management and Effluent Treatment : University of Pretoria, October 2005

Member of the South African Institute of Chemical Engineers

Member of the Committee of the KwaZulu-Natal Waste Minimisation Interest Group

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Career summary

2006 to date **GIBB** – Associate

Responsible for managing the environmental consulting services business at the Durban office; and leading and undertaking environmental and related projects

2001 to 2006 **GIBB** – Environmental/Chemical Engineer

Responsible for leading the environmental services provided at the Durban Office and undertaking and/or leading projects associated with environmental engineering, environmental impact assessments, environmental management planning and monitoring, environmental audits and related projects

1999 to 2000 **Umbogintwini Operation Service (UOS, AECI)** – Chemical Engineer on secondment from AECI Bioproducts

It should be noted that UOS acted as Landlord to the Umbogintwini Industrial Complex (hereafter referred to as 'the complex') and were responsible for various services to the complex, which include management and co-ordination of effluent and stormwater treatment and permit and environmental compliance auditing. Fifteen industrial companies operate in the complex

Responsibilities included:

- Engineering advise and support to the Management Team
- Various investigations and projects related to the development of specifications and principles for the management and operation of the UOS sea discharge pipeline to ensure minimisation of environmental impacts and permit compliance
- Preparation of the complex's liquid effluent disposal and permit compliance status reports and presenting these to DWAF, the Permit Advisory Panel, the local Community Awareness and Emergency Response (CAER) Committee and the South Coast Marine Pipeline Forum
- Regular compliance audits conducted on behalf of UOS at the industrial facilities in the complex to ensure good environmental performance (stormwater management compliance)

1997 to 1999 **AECI Bioproducts** – Process Engineer

Responsibilities included:

- Environmental management assistance including collation and presentation of reports, problem solving, definition of operating philosophy, setting of targets and environmental training
- Representing the organisation at sea outfall pipeline forums
- Process engineering and engineering management administration support for plant modifications
- Environmental engineering for the Lysine Plant Expansion Study

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- Undertaking investigations on wastewater discharge impacts such as potential toxicity and sea discolorations

1989 **ICI Middlesborough, UK** – Process Engineer

Responsibilities included assisting the project engineer with the specification of equipment and compiling datasheets for the Diesel Dewaxing Plant Project and undertaking a vapour cloud explosion study

1988 to 1989 **ISCOR Pretoria Works** – Energy Management Engineer

Responsibilities included:

- Engineering and management support in the distribution and control of various energy sources and resources (excluding electricity) for the works. This included setting up distribution plans based on production plans and energy balances, preparation of the works energy reports, budgeting, problem identification and resolution and optimisation of the distribution networks
- Technical support regarding energy management and process engineering to other sections and projects for the Corex Plant project
- Technical support to the operating teams of the steam and compressed air production plants
- Project management and engineering for a number of energy management and optimisation related projects

1987 **ISCOR Pretoria Works** – Acting Superintendent Environmental Affairs (temp three months)

Responsible for attending to and managing the section responsible for all Pretoria Works environmental affairs, industrial hygiene, water treatment and energy distribution (excluding electricity)

1985 to 1987 **ISCOR Pretoria Works** – Environmental Control and Water Utilisation Engineer (Engineer in Training)

Responsibilities included:

- Water and effluent management of the work's water and effluent system. This included overseeing the treatment, monitoring and control of the various internal water utilisation and effluents as well as final discharges, setting up an effluent database and report system, identification and reporting of weaknesses and non-compliance's, recommending of technical solutions and correspondence with DWAF regarding compliance status and incidents
- Water treatment and utilisation improvement and modifications projects, which included improvements to various cooling water and wastewater treatment systems and infrastructure
- Process engineering including e.g. the design of the cooling water supply pipeline link to the new Corex Plant
- Air pollution control assistance

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- Technical assistance in industrial hygiene projects, e.g. ventilation system evaluation and design for overhead crane cabins
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Project experience

Key projects and associated responsibilities include:

Environmental Profiling and Guidelines

- South African National Port Environmental Impact Assessment Guideline. Project leader and report compiler. Department of Environmental Affairs, 2010 – 2012
- South African National Chemicals Profile Compilation. Project scientist and task co-ordinator. Department of Environmental Affairs and Tourism, 2001 – 2006

Environmental Pre-feasibility and Feasibility Studies

- Passenger Rail Agency of South Africa (PRASA) Durban Yard Depot and Workshop environmental screening. PRASA has embarked on a major fleet renewal program in order to replace all its metro trains during the next 20 years. The new technology and improved maintenance practices envisaged for the new fleet will require new or refurbished maintenance depots. A site selection study was undertaken to identify and recommend the most appropriate depot site in Durban for this modern depot. Taks leader for environmental screening. PRASA, 2012
- Richards Bay Minerals (RBM) coal dryer upgrade environmental pre-feasibility screening. This screening involved rendering advice on the requirements in terms of relevant environmental legislation, e.g. the Environmental Impact Assessment (EIA) Regulations and the Minerals and Petroleum Resources Development Act. Project advisor. RBM, 2008
- Desalination facility (450 Ml/day) environmental pre-feasibility study and preliminary site selection. The study along the coast close to Durban included consideration of site availability, site suitability, identification of sensitive biophysical and socio-economic environments as well as project aspects and potential associated environmental impacts. This including *inter alia* a literature review of sea water quality and the influence thereon by existing sea outfall pipelines, nearby port operations, ecological sensitivity, and community health and well-being. Environmental engineer and advisor. Umgeni Water, 2008 – 2009
- Umzimkhulu Town flood protection feasibility study. The town of Umzimkhulu is situated on the banks of the Mzimkhulu River in southern KwaZulu-Natal. The town and its Central Business District have in the past suffered extensive damages as a result of flooding. The purpose of the feasibility study was to identify and investigate possible options to alleviate or mitigate this flooding problem and to undertake a selection process to shortlist the most acceptable solution(s) from a technical, economic and environmentally perspective. Environmental scientist/engineer. Sisonke District Municipality, 2008

Environmental Impact Assessments

- Port of Durban Passenger Terminal EIA (Basic Assessment) and associated public participation. Transnet National Ports Authority (TNPA) on behalf of Transnet SOC Limited proposes to construct a new 3-storey world class passenger terminal building for about 5000 passengers and a new 6-storey

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administration building for 400 TNPA staff on Berth AB in the Port of Durban. The buildings would take care of present and future needs. 'Green Design' will be incorporated in the buildings. Project leader. Transnet National Ports Authority, 2011 - ongoing

- Richards Bay Minerals (RBM) to Richards Bay CBD Link Road EIA (Basic Assessment) and associated public participation. RBM in collaboration with the City of Mhlathuze, Mondi and Sappi and the Kwambonambi Municipality are proposing to link the East Central Arterial Road to the RBM Smelting and Processing Site. Two alternative road options of approximately 10km each are being considered; these road options are located along Mondi and Sappi timber plantations through to the Birdswood area. The environmental services rendered included coordinating ecological, wetland, traffic, noise and heritage studies. Project leader. RBM, 2012 - ongoing
- Foskor Rockphosphate Storage Facility EIA (Basic Assessment) and associated public participation. Foskor's acid division at Richards Bay undertakes the beneficiation of phosphate rock into either phosphoric acid or phosphate-based granular fertilizers for export. Foskor proposes a new 200 ton storage facility at their industrial production facility in Richards Bay. The environmental services rendered included coordinating wetland and traffic studies. Project leader. Foskor (Pty) Ltd, 2012 – ongoing
- Richmond Cemetery EIA (Basic Assessment). Project leader. uMgungundlovu, 2011 - ongoing
- Umgeni Business Park 132/11kilovolt (kV), 60 megavolt-ampere (MVA) substation EIA and associated public participation. eThekweni Electricity proposes this new substation to provide for the phasing out of an old substation and increased electricity demand in Durban North. The EIA included a geotechnical specialist investigation and risk assessment of landfill gas release at a proposed alternative site at which waste had historically been used as filling material. Landfill gas related safety risk management design specifications and construction and operation procedures were developed. Project leader. eThekweni Electricity (Municipality), 2008 – 2010
- Richards Bay Minerals Cogeneration Project EIA and mining Environmental Management Programme (EMPR) amendment. RBM proposes to install a 34 megawatt electricity cogeneration facility at their iron and titanium slag smelter complex at Richards Bay, South Africa. RBM proposes to fuel this facility with available recycled waste gas in order to generate electricity for use at their complex. This project, amongst others, will contribute to RBM's efforts to achieve a 10% reduction in electricity demand from the national grid. RBM intends to have the project validated in terms of the rules of the Clean Development Mechanism (CDM) and registered by the United Nations as a CDM project (in terms of carbon credit principles). Project leader and reviewer. RBM, 2008 – 2010
- Port of Durban Island View pipe rack expansion EIA (Basic Assessment) and associated public participation. Transnet proposes to construct a new pipe rack to upgrade the berthing infrastructure along berths no 1 to 10 and to allow for lifting of an existing underground pipeline. The environmental services rendered included facilitating a hazard risk assessment workshop with stakeholders and risk assessors. Acting project leader and environmental advisor. Transnet National Ports Authority, 2008
- Sani Pass Road Upgrade EIA. The proposed upgrade of the Sani Pass is located in the Ukhahlamba Drakensberg World Heritage Park. The EIA included an associated extensive public participation process and sub-contracted specialist

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studies, including e.g. socio-economic, heritage, ecological, aquatic, ornithology, vegetation and visual. Acting project leader and acting project reviewer. South African National Roads Agency, 2008 – ongoing

- Inchanga Islamic Centre farm dam EIA (Basic Assessment). Project leader. Inchanga Islamic Trust, 2007 – 2008
- ACSA Radar Rd storm damage repairs project EIA exemption/emergency reports. Task leader. ACSA, 2007
- Remote ACSA car park at the Durban International Airport EIA (Basic Assessment) and associated public participation. Project leader. ACSA, 2006
- Mophela Village 150-kilolitre elevated water tank EIA. Project leader. eThekweni Municipality, 2005
- Phoenix Wastewater Treatment Works 25 megalitre upgrades EIA. Project leader. eThekweni Municipality, 2004 – 2005
- Phase II Umgeni River widening project EIA. This project concerns a one kilometre section of the lower Umgeni river at the Umgeni Business Park. Project leader. eThekweni Municipality, 2005 – 2006
- Port of Durban entrance channel widening and deepening EIA. The proposed development includes constructing a new north pier, demolition of the existing north pier and associated facilities, replacement of the sub-aqueous tunnel and associated services, dredging for deepening and a diesel storage facility for construction purposes. Project leader and scientist. National Ports Authority, 2003 – 2004
- Maydon Wharf diesel storage facility at the Port of Durban EIA Exemption Application. Project leader. South African Ports Operation, 2004
- Ambrose Park services infrastructure development EIA. Ambrose Park is a 55 hectare back of wharf site earmarked for warehousing and goods handling at the Port of Durban. The service infrastructure includes access roads, electricity supply, water supply, stormwater reticulation, canal raising and a diesel storage facility for construction purposes. Project leader and scientist. National Ports Authority, 2002 – 2004
- Ottawa-Tongaat 132 kV overhead electricity transmission lines and associated substations EIA. This 14 km power line project includes a proposed substation at Tongaat and the proposed La Mercy Airport. The EIA included bird and heritage specialist studies for which appropriate specialists were appointed. Project leader and scientist. eThekweni Municipality, 2001 – 2005
- Effingham – Kwa-Mashu Link Road and Industrial Development detailed Noise Impact Assessment. Noise specialists were appointed. Project leader. eThekweni Municipality, 2001 – 2002
- Effingham – Kwa-Mashu Link Road Environmental Scoping Study. Task leader. eThekweni Municipality, 2001 – 2002

Environmental Management Planning

- Watson Highway (Ushukela Drive) to Dube Trade Port Link Road Environmental Management Plan (EMP) and Wetland Rehabilitation Plan (WRP). This assignment followed on from an EIA process. An updated EMP and a WRP was

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required as part of the conditions of Environmental Authorisation. A sub-consultant was subcontracted to develop the WRP. Project leader. Dube TradePort Company, 2012

- Nuclear-1 EMP. Eskom proposes to construct a 4 000 MW Nuclear Power Station and associated infrastructure, known as the Nuclear-1 Project. Three sites were assessed as site alternatives in the EIA Process. A detailed and comprehensive EMP was developed for the proposed site close to Cape St Francis. The EMP includes the mitigation measures identified during the EIA and associated specialist studies. Project scientist and EMP compiler. Eskom, 2010 – 2011
- Kranzkloof, Oribi Gorge, Umtamvuna, Chlemsford and Ncandu Nature Reserve Integrated Management Plans. Project scientist. Ezemvelo KwaZulu-Natal Wildlife, 2007 – 2008
- Braamhoek pump scheme borrow pit EMP. Assistance with mining permits re-application. Project scientist. Eskom, 2007
- Port of Durban Entrance Projects EMP review and rehabilitation specification. This was done with the assistance of a vegetation specialist. Project scientist. Transnet, 2007
- Port of Durban Service Tunnel EMP. Compilation of an EMP for the construction phase of the new 4.4m internal diameter 515 m long sub-aqueous tunnel and associated services at the Port of Durban entrance channel. Project leader and scientist. eThekweni Municipality, 2004
- Phase II Umgeni River widening project EMP and Department of Water Affairs & Forestry (DWAF) and Department of Minerals & Energy (DME) authorisation application. Project leader. eThekweni Municipality, 2006
- Phoenix Wastewater Treatment Works 25 megalitre upgrades EMP. Project leader & scientist. eThekweni Municipality, 2005
- Ambrose Park services infrastructure development EMP. Project leader. National Ports Authority, 2003
- Isipingo Island Institute Feasibility Business Plan. Project scientist and task co-ordinator. Isipingo Island Institute, 2002 – 2003

Waste Management Planning and Design

- Greater Kokstad Municipality (GKM) Integrated Waste Management (IWM) Strategy and Plan. GKM, 2011 - 2012
- KwaZulu-Natal IWM Strategy and Plan. Project leader. KwaZulu-Natal Department of Agriculture, Environmental Affairs and Rural Development, 2010 – ongoing
- Exxaro Smelter Waste Disposal Option Investigation and Design. Exxaro, a mining company based in Empangeni, focuses on the exploration, mining and treatment of mineral sands deposits in KwaZulu-Natal. Components of the mined sand are treated at a furnace and metal processing facility at which the smelter waste is generated. A 'new' waste disposal option for the smelter waste is required since the mine at which the waste is currently disposed will close. The services provided involve the waste classification, geotechnical investigation, EIA and engineering design. Project leader. 2010 – ongoing

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- Ndwedwe IWM Strategy and Plan. The Ndwedwe Municipality does not provide any waste management services and waste removal from this mostly rural municipal area is thus lacking. The municipality aims at introducing such services. A strategy and plan with associated status quo assessment, gap and needs analysis and strategic planning components was developed in accordance with the requirements of the National Environmental Management: Waste Act. Project leader and environmental engineer. Ndwedwe Local Municipality, 2009
- Mandeni IWM Strategy and Plan. The Mandeni Municipality aims at decreasing their waste removal backlog and improving waste management within the municipal area. In addition to developing the strategy and plan with associated status quo assessment and strategic planning components for the local municipality, the existing customer database and tariff structures were assessed in detail. Options for addressing gaps and problems with the customer database were recommended and a new tariff model was developed. New municipal solid waste removal bylaws were developed. The project also involved the compilation of tender documents as well as the management of the tendering process for the outsourcing of solid waste collection and disposal services on behalf of the municipality for a three year period, which was followed by three month contract monitoring. Project leader and environmental engineer. Mandeni Local Municipality, 2008 – 2009

Environmental Monitoring and Control

- Durban Port Berth 2 and 10 Expansion Environmental Officer. Environmental officer services are provided to support contractor environmental management and compliance. Project leader. Transnet Capital Projects, 2011 - 2012
- Gautrain Project environmental advisory services. These services were provided on an ad-hoc basis as per requests received from the client. Project scientist. Gauteng Department of Public Transport, Roads and Works, 2007 – 2008
- Port of Durban Service Tunnel Environmental Control Officer (ECO). ECO services and associated audits were provided for the two years construction phase of the new 4.4 m internal diameter 515 m long sub-aqueous tunnel and associated services at the Port of Durban entrance channel. Project leader and reviewer. eThekweni Municipality, 2005 – 2007
- Ambrose Park service infrastructure development project ECO. ECO services and associated audits were provided for the one year construction phase. Project leader and reviewer. National Ports Authority, 2003 – 2005

Environmental Audits

- Durban Wastewater Recycling Facility environmental compliance audit. Project scientist. Rand Merchant Bank, 2005 – 2006
- Container handling and transportation depot environmental compliance audit. The facility is located in Kempton Park. Project scientist. Confidential, 2005
- Pharmaceuticals manufacturing facility environmental compliance audit for an international client. The facility is located in Kyalami, Johannesburg. Project leader and scientist. Confidential, 2004
- Specialised ceramic product manufacturing and carbon product manufacturing facilities environmental compliance audit for an international client. Two sites in Gauteng were audited on a biennial basis. Project leader and scientist. Confidential, 2003 – 2007

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- Sisonke District Municipality low cost housing developments preliminary environmental site assessments. Three sites in different areas were assessed. Project scientist. Sisonke District Municipality, 2003
- Kelvin Power Station environmental compliance audits. This power station in Kempton Park, Johannesburg was audited on a biennial basis. Project scientist. Kelvin Power (Pty) Ltd, 2002 – 2004
- Durban Port Ambrose Dumpsite Phase I and II environmental site assessment. Project leader. National Ports Authority, 2002 – 2003
- Water bottling facility Phase I due diligence and groundwater pollution assessment. The facility is located in KwaZulu-Natal. Project scientist. Confidential, 2002
- Vehicle part manufacturers and coating facilities Health Safety and Environment (HSE) compliance audits. The facilities are located in Durban. Project scientist. Confidential, 2002
- Oil recycling and processing facilities HSE compliance audits. Eight facilities in Johannesburg, Cape Town, Durban, Pietermaritzburg and Lime Acres were audited on an annual basis. Project leader and scientist. Rose Foundation, 2001 – 2003
- Lead and metal processing facilities HSE audits for an international client. 11 facilities throughout South Africa. Project scientist. Confidential, 2001 – 2002
- Pietermaritzburg waste disposal facility Phase I environmental due diligence assessment. Project leader and scientist. Pietermaritzburg - Msunduzi Transitional Local Council, 2001
- Georgia Pacific-Resinkem Phase I environmental due diligence assessment. The manufacturing facility is located at Umbogintwini south of Durban. Project leader and scientist. Resinkem, 2001
- Umbogintwini Operational Services oil storage facilities environmental compliance audits, with a focus on compliance of bunding integrity. Project scientist, 2000

Stakeholder Engagement

- Draft Durban Back of Port Local Area Plan Stakeholder Engagement. eThekweni Municipality developed the Plan which proposes changes to the future land use and zoning in the Back of Port area between the existing Port of Durban and the proposed new dig-out Port in the Durban South Basin. The Plan accommodates and plans for the existing and expected market related pressures on the Durban South Basin. The stakeholder engagement consisted *inter alia* of developing an 'easy reader' and newspaper tabloid and assisting the Municipality with stakeholder and public meetings and facilitation thereof. Project leader. eThekweni Municipality, 2012 - ongoing

Integrated Water and Wastewater Management, Permitting, Investigations and Engineering

- Coedmore quarry phase 2 Londonspruit diversion authorisation applications. Project leader. Holcim (Pty) Ltd, 2007 – 2008

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- Kelvin Power Station Exemption Condition Compliance Project. Preparation of a plan, engineering design, contracting and implementation for modifications and measures at the Kelvin Power Station to achieve compliance with intermediate targets of the Department of Water Affairs and Forestry Exemption Permit. This multimillion Rand project includes the implementation of an integrated water/effluent flow meter system, hazardous substance containment bunding, wastewater management system integration and upgrade and stormwater system upgrade (introduction of new conveyance channels and containment dams). Project leader and engineer. Kelvin Power (Pty) Ltd, 2005 – 2007 (project currently on hold)
- Kelvin Power Station Water Management Option Project. Identification and assessment of water management options for achieving compliance with the Department of Water Affairs and Forestry Exemption Permit for the Kelvin Power Station, which includes assessment for water use optimisation and treatment, zero discharge (including feasibility of desalination through reverse osmosis), stormwater management, groundwater pollution. Project leader and engineer. Kelvin Power (Pty) Ltd, 2003 – 2004
- Kelvin Power Station water management plan compilation. Project leader and engineer. Kelvin Power (Pty) Ltd, 2001 – 2004
- Umbogintwini Industrial Complex organic effluent treatment plant investigation. Investigate the need for an organic effluent treatment plant for the complex. The project required that the individual and cumulative affects and interests of all the companies at the complex were collated, co-ordinated, addressed and agreed. An independent consultant conducted the detailed technical investigation. Project leader. Umbogintwini Operation Services, 2000
- Umbogintwini Industrial Complex documented storm water management system for the complex. Project engineer. Umbogintwini Operation Services, 2000
- Umbogintwini Industrial Complex marine outfall human health risk assessment. Undertaking human health risk assessment on the effluents released by the two marine pipelines of the complex by development of specifications, leading the tender process and project management of a team of consultants on a client representative basis. Project leader. Umbogintwini Operation Services, 1998 – 2000
- Umbogintwini Industrial Complex sea discolouration investigation. The mechanism of sea discolouration's caused by the liquid effluents discharged from the complex into the ocean via two marine outfall pipelines were investigated. A vast number of variables characterising the individual companies' and cumulative effluents and sea conditions measured at the outlet were analysed and statistically evaluated. Project leader/scientist. AECI Bioproducts & Umbogintwini Operation Services, 1999 – 2000
- Corex Plant 500mm cooling water supply pipeline link design. This design formed part of the integration of this new plant into Iscor Pretoria Works. Project engineer. Iscor, 1987
- Iscor Rod mill mechanical draft cooling tower specification and project management. A new cooling tower was required at the Rod Mill to replace a dilapidated and inefficient existing cooling tower. Project manager/engineer. Iscor, 1987

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- Iscor Pretoria Works final effluent treatment facility investigation and modification design. Engineering investigation and design for modification to the sand filter plant to improve the wastewater discharge quality of Iscor Pretoria Works. Project engineer, 1986

Energy Management

- Iscor Pretoria Works gas distribution system upgrade. Specification and identification of the optimal positions for additional control valves in the main gas distribution network to achieve economic optimisation by improving online time of key production units. Project engineer. Iscor, 1988
- Iscor Pretoria Works Central Energy Centrum. Project management for a multidisciplinary team of engineers and technicians for the specification and design of a central energy centrum for the monitoring and control of all the work's energy and water distribution. Project leader. Iscor Pretoria Works, 1988 – 1989

Hazard and Operability Studies

- Diesel Dewaxing Plant vapour cloud explosion risk assessment. The assessment included literature review, engineering calculations and making recommendations for appropriate mitigation measures as part of the design for the new Diesel Dewaxing Plant Project. Project engineer. ICI Middlesborough, UK, 1989

Language capability

	Speaking	Reading	Writing
English	Good	Good	Good
Afrikaans	Good	Good	Good
German	Good	Good	Good

Signature

Date
