

CURRICULUM VITAE

E A HOLEMANS

Personal Information

Surname: Mr Holemans

Christian Names: Emiel Alfons

Residential Address: 12 Beryl Avenue
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ID Number: 440703503²²~~3~~089

Date of birth: 3 July 1944

Country of birth: Belgium

Marital status: Divorced

Children: 1 daughter (25)

Nationality: South African, Belgian

Home Language: Afrikaans, Dutch

Other languages: English, German, French

Drivers License: Code 08

Criminal offenses: None

Health: excellent

Qualifications

1. **Greek Latin Humaniora:** Equivalent with **Matric**

St. Josephcollege -Aarschot (Belgium)
Science, Math's, Latin, Greek, French, Dutch, Geography and History.

2. **Licentiate in Chemistry:** 4 year course - **Equivalent with B Sc (Hon) in Chemistry**

University of Louvain (Belgium)

Math's 1 and 2, Physics 1 and 2, Botany, Biology, Geography, Crystallography
Analytical, Physical and Organic Chemistry, Microbiology, Biochemistry.
Thesis: Reaction of Ovalbumine with Organic Mercury Compounds.

3. Registered in 1983 as **Natural Scientist** with the South African Counsel for Natural Scientists.

WORK EXPERIENCE

Latest Employer

Department of Water Affairs and Forestry

2002 –2009

Deputy Director: Hydstra Support.

Portfolio manager for the National Hydstra Hydrological Database.

Manager of outsourced IT personnel (Arivia).

Project leader for the development and improvement of hydrological processing and evaluation software.

Manager of specialised Exponent contracted personnel.

Responsible for training of DWAF personnel on Hydstra at head office and eight regional offices.

Responsible for the hydrological data and weekly state of dams on the internet.

Coordinator for and participator in field studies where gauging structures and hydrological data are evaluated by a multidisciplinary hydrology team.

Participated in the water resource studies of the major South African Rivers and responsible for compiling the final reports for consulting firms.

2000-2002:

Office Manager Resource Directed Measures (RDM).

Determining Reserves for water use applications.

Fieldwork for hydraulics, workshops with environmental specialists.

Appointment of consultants and consulting firms for comprehensive Reserves.

1999- 2000

Assistant Director: Reservoirs (Dams)

Update and maintain database of all DWAF dams in South Africa

Publish dam data on DWAF internet site.

Supply dam records to consultants and other clients.

1998-1999

Principal Hydrologist: Calibration.

Responsible for calibrating gauging stations, dam overflows and river sections. Assisting in surveys and stream gauging.

Previous Employer

Technikon Northern Gauteng

1997- 1998

Senior Lecturer

Presenting lectures to students of analytical chemistry 3 (50 students).
Responsible for the laboratory practicals of analytical chemistry 3
where students are taught the basic skills on the following instruments: GC, AA, ICP, flame, IR, UV and Vis spectrophotometers, conducto-, pH and specific ion meters, polarograph.

Previous Employer

Atomic Energy Corporation (AEC)-Currently NECSA

1971 to 1997

Note: Reason for leaving: Due to scaling down of AEC (from 8500 people to 1200), now NECSA, I was declared redundant and retrenched.

Manager Utilities (1994-1997)

Responsible for the following services to the AEC site:
Drinking water, demineralised water, process water, steam, compressed air, liquid nitrogen, sewage.
Main plant and equipment: Water purification plant for crocodile river water, demineralisers, steam boilers, zr4 compressors, liquid nitrogen vessels and activated sludge plant for sewage treatment.
Laboratories for water analysis, effluent control and sewage.
Anticorrosion and water treatment products.
Optimization of production, maintenance of infrastructure and equipment.
Compliance with quality, safety, health and environmental standards and requirements.
Contracts for coal and liquid nitrogen.
Budget of 16 MR plus.
Staff of 45 people.

Head: Analytical Department (1982-1994)

In charge of water analysis laboratories:
-for the treatment of crocodile river water
-for the effluent discharge
-for environmental samples.

Manager of the radiochemical laboratory.
- α , β and γ analysis on all type of materials.

In charge of material analysis laboratory.
-Aluminium alloys, mild and stainless steels.
-Uranium (pure) and alloys.

Emission spectrometers (2), atomic absorption and carbon rod, gas chromatograph, sulfur and carbon analyzer, specific ion meter, flame photometer, fluorometer and alpha, beta and gamma analyzers.

Special task: Responsible for the set up and maintenance of the radiochemical laboratory at Vaalputs national nuclear waste repository.

Consultant (1980-1982)

Seconded to ESKOM to set up and operate their environmental laboratory at the Koeberg nuclear power station.

Selection of monitoring materials (soil, plants, water, living organisms) sample preparation and analysis methods and writing of all manuals and procedures.

Author of the preliminary environmental survey report.

Training of Eskom personnel.

Chief Chemist (1971-1980)

Head of laboratories where the following materials were analysed:

water, soil, metals, alloys, and specifically impurities in uranium.

During an overseas study tour, a direct reading emission spectrometer was selected for this purpose.

SPECIALISED TECHNICAL AND COMPUTER SKILLS

- Software program HYDSTRA for the management of all DWAF surface water and dam data.
- Expert knowledge of water and sewage purification.
- Expert knowledge of analytical laboratory instrumentation.

HOBBIES AND INTERESTS

- Home workshop-Car service and repair.
- Nature walks.
- 4X4 Drives
- Reading.

REFERENCES

Mr FP (Frik) Cornelius

Department of water affairs

Tel: 012 3367900

Cell: 082 8076164

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Mr SP (Fanie) Botha

Atomic energy corporation

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