

## Curriculum Vitae

Lonji Kalombo

731, Schoeman Street, Interlaken 204  
Arcadia, Pretoria 0083  
South Africa

**Surname:** Kalombo  
**First name:** Lonji  
**Date of birth:** 05/09/ 1964  
**Marital status:** Married  
**Sex:** Male  
**Languages spoken:** English, French and Swahili  
**E-mail address:** [mlonji@hotmail.com](mailto:mlonji@hotmail.com) or [lkalombo@csir.co.za](mailto:lkalombo@csir.co.za)

### EDUCATION

**0. Degree: PhD (Applied Science): Chemical Engineering** (March 2006): Not yet completed (University of Pretoria)

**1. Degree: Master of Science (Applied Science) : Chemical Technology** (April 2005)

From the **University of Pretoria** / Department of Chemical Engineering, Division of Chemical Product design and Polymers / Institute of Applied  
-Provisional patent: "*Sb<sub>6</sub>O<sub>13</sub> as oxidant for silicon fuel in long- period delay detonators.*"

**2. Degree: BSc Hon. (Applied Science) : Chemical Technology** (April 2002-April 2004)

From the **University of Pretoria** (Department of Chemical Engineering;

**3. Degrees:**

◆ **Metallurgical Engineer** (1984-1991) and

◆ **Chemical Engineer** (1991-1994)

Departments of Metallurgy and Chemical Engineering, respectively from the Faculty of Polytechnic

**University of Lubumbashi** (D.R.Congo)

**CAREER HISTORY**

**1. Company:** Oxym (Manufacturing of pure oxygen from Mbujimayi/DRC)

Period: April 1995 to April 1996

Position Held: Production Supervisor

**2. Company:** Unibra (Brewery of Bakwanga in Mbujimayi / DRC)

Period: April 1996 to July 1997

Position Held: Production Supervisor

Duties: Quality control from raw material until the end products;

**3. Institution:** University of Mbujimayi/ RD Congo

Period: November 1998 to January 1999

Position Held: Lecturer

**4. Company:** MIBA (Diamond Mining Company of Bakwanga in Mbujimayi-DRC)

Period: January 1999 to November 2001

Position Held: Process Engineer

**5. Company:** CSIR/MSM-Centre of Polymer, Ceramics & Composites in Pretoria

Period: December 2003 to date.

Position held: Researcher

**Main Projects**

◆ *Nanoencapsulation of anti-tuberculosis drug*

Design of anti-TB drugs nanocapsules and optimisation of encapsulation efficiency, production yield, particle size and particle size distribution by

monitoring various process parameters through different techniques (Multiple emulsion-evaporation technique, Supercritical fluid and Nanoprecipitation, Spray drying). Performance of the in-vitro release profile studies.

◆ *Extrusion and injection moulding of starch-based biodegradable plastics:*

Optimisation of process parameters in the production of biodegradable seedling trays

◆ *Coating of plastic bottles with a polymeric film featuring gas barrier properties*

◆ *Optimisation of a dye solar cell:*

Implementation of the polyelectrolyte properties (electrical conductivity, mechanical properties)

**REFERENCES:**

***Prof Walter Focke***

Director of Institute of Applied Materials

Division of Chemical Product design and Polymers

Department of Chemical Engineering / University of Pretoria.

Tel: (012) 420 2588

Cell: 083 326 6549

E-mail: xyris@mweb.co.za

***Mr. Luabeya Tshitala Gustave:***

President and Chief Executive Officer

MIBA-MBUJIMAYI/D.R. Congo

E-mail: luagus@yahoo.fr