

Kevin Hay

Education

BSc (Eng) – (Chemical Engineering), University of Cape Town, South Africa, 1972

Professional Affiliations

Fellow: South African Institute Mining & Metallurgy Registration No 56742

Retired Member: Mine Metallurgical Managers' Association Member No 31

Retired Member: Canadian Institute of Mining, Metallurgy and Petroleum No 111404

Summary of Experience

47 Years' experience in the metallurgical industry. Most of career at major platinum producer, Lonmin. Positions ranged from General Manager of the smelter and refinery to consulting metallurgist. Previous experience as mill and smelter superintendents at operations in Namibia and Zimbabwe.

Relevant Experience

Metallicon Metallurgical Consultant (2009 – Current)

- Metallurgical consulting
- Audits at Nkomati Nickel
- Audits at Anglo Platinum Operations including Smelter
- Feasibility Design of Platinum Facility in Zimbabwe.

Lonmin, Marikana, SOUTH AFRICA (1984 – 2009)

2008 – 2009 - Senior Process Engineer

- Worked on Six Sigma projects as the lead black belt in the Smelter and Base Metal Refinery.

1999 – 2008 - Consulting Metallurgist

- Provided technical expertise to the Smelter, Base Metals Refinery (BMR) and Precious Metals Refinery (PMR).
- Trained and passed out as a Six Sigma Black Belt.
- Lonmin representative on AMIRA (Australian Minerals Industry Research Association) project: Slags, Refractories and Processes and on the PDI (Platinum Development Initiative).
- Lonmin representative on the METF (Minerals Education Trust Fund) board of Trustees and Metallurgical Sub-committee – 2 years as chairman of the sub-committee.
- Metallurgical representative in due diligences conducted at Zimplats, Zimbabwe and Stillwater Platinum, Canada.
- Lonmin representative/consultant in the Panton Sill and Helix platinum feasibility studies in Australia. Part of the development team for the Panton process of cyanide leaching of Pgm from Pgm concentrates and the metals recovery process (MRP) of recovering Pgm from the leachate. Wrote up MRP patent application and the further processing of same.
- Part of the design teams for the expansion of the BMR and the PMR, the Smelter SO₂ fixation plant and converter expansion, and the Concentrators optimization project.

1995 – 1999 - General Manager (Smelter and BMR)

- Responsible for the overall operations in the Smelter and BMR including production, cost control, metal accounting, budgeting and forecasting, human resources, union relations, capital expenditure and toll smelting, reporting to the Managing Director.
- Part of the design team for the No.1 electric furnace.
- Conducted testwork with Mintek for the Conroast process.
- Part of the due diligence team for the Lonmin/Impala merger.

1990 – 1995 - Manager Metallurgical

- Responsible for the overall operations in the Smelter, BMR, Assay Laboratories and the Hospital reporting to the Managing Director.
- Part of the design teams for the matte granulation plant and the slag plant.

1988 – 1990 - Metallurgical Manager

- Responsible for the operations in the Concentrators, Smelter and BMR reporting to the General Manager.
- Lead the project team for the expansion of the BMR from 12t/day to 60t/day.
- Part of the design teams of the Rowland concentrator, Smelter Merensky No. 2 furnace and the Pyromet furnaces.

1984 – 1988 - Refinery Superintendent

- Responsible for the operations in the BMR reporting to the Metallurgical Manager.
- Part of the Sherritt Gordon design team for the BMR. Became the commissioning leader responsible for recruiting/training personnel and commissioning.

Oamites Mining Company, Windhoek, NAMIBIA (1982 – 1984)

Mill Superintendent

- Responsible for the operations in the concentrator and the assay laboratory reporting to the General Manager. This included production, cost control, budgets and forecasts, labour, metal accounting, plant maintenance and capital expenditure.

Lomagundi Smelting and Mining (LSM), Chinhoyi, ZIMBABWE (1973 – 1982)

1980 – 1982 Smelter Superintendent

- Responsible for operations in the Smelter reporting to the Smelter Manager.

1978 – 1980 Concentrator Superintendent

- Responsible for operations in the Shackleton concentrator reporting to the Mine Manager.

1975 – 1978 Smelter Metallurgist

- Responsible for the metallurgical and technical operations in the Smelter. Oversaw all metallurgical accounting and month-end reporting.

1973 – 1975 Jnr Metallurgical Engineer

- Worked on shift as Reveratory operator, Converter operator, Casting operator and Shift Foreman

Professional Development

Managing in the Mining and Minerals Industry

Time Management

Managing Human Performance

Six Thinking Hats

Financial Skills of Management

Physicochemical principles of refractory use

Comparative Statistics

Six Sigma Black Belt

Languages

English,