

CHARLEY ZVINAIYE MURAHWI, M.Sc., P.Geo.
Senior Geologist

BACKGROUND

Charley Murahwi is a Senior Geologist with Micon and has over 28 years of experience in the mining industry covering mineral exploration, mine development and mining operations. He has training and experience in geostatistical techniques and mineral resource reporting. Charley has held senior management positions with major mining companies, including Anglo American plc. His work experience covers a wide variety of mineral commodities including chromium-nickel-copper-platinum group elements in layered intrusions, nickel (komatiitic environments), gold-silver (lode, vein systems and shear hosted), copper (sediment hosted and in volcanogenic settings in association with gold and base metals), tin and tantalum (granite systems). Previously as an Independent Consultant, Mr. Murahwi undertook the technical and financial evaluation of mining and exploration projects in a number of countries in Central and Southern Africa. Since joining Micon in 2008, Charley has undertaken assignments for clients in Canada, Mexico and Australia. He has a M.Sc. from Rhodes University in South Africa and a Diplome D'Ingénieur Expert from the Nancy School of Mines, France.

PRIOR EXPERIENCE

Clarity Minerals SA (Pvt) Ltd
Senior Exploration Manager-Central & Southern Africa 2006-2007

Responsible for the evaluation of potential acquisitions and exploration programs for gold and base metals in Central and Southern Africa.

CONSULTANT – SADC REGION
Exploration & Mining Consultant 2003-2005

Was involved in the technical and financial evaluation of mining and exploration projects for various mining companies notably, Bobcat Mining Company in Mozambique and Zimbabwe, DRD Gold in South Africa, and Olympic Milling in Zambia and the Democratic Republic of Congo.

Anglo American plc (Zimbabwe)
Exploration Director 2001-2002

Responsible for the overall direction and control of activities and assets of the Exploration Division in order to ensure a continuous generation of resources and reserves for the Mining Divisions i.e., Bindura Nickel Corp. (nickel), Zimalloys (chromite) and Amzim (gold).

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- Guided the exploration teams to the discovery of Gold Quarry gold mine in the Odzi greenstone belt, eastern Zimbabwe.
- Directed exploration and related pre-feasibility studies of the Hunters Road Nickel prospect which ultimately increased the resource base of Anglo's nickel division by 20 million tonnes.
- Closely involved in the feasibility stage of evaluation of the Aripuana VMS deposit in western Brazil during a secondment period from July to October, 2001.

Exploration Manager 1995-2000

Responsible for planning, organizing, managing and controlling exploration programs on and off-mine. This included preparation and monitoring of budgets, target generation, selection and project design. The focus of the company was on the Great Dyke (platinum group elements-nickel-copper and chromium), Inyala complex podiform chromite and Archaean granite-greenstone terrains (gold and base metals) in Central and Southern Africa. Was also involved in feasibility and due diligence studies on potential acquisitions notably, Mimosa platinum mine, Selukwe podiform chromite (both in southern Zimbabwe), and Shamva gold mine in north-eastern Zimbabwe.

- Guided the exploration teams to the discovery and establishment of two gold mines, i.e., Bubi and Mckays, from grassroots exploration in the Bubi greenstone belt, south-west Zimbabwe.

Divisional Geologist 1992-1994

Responsible for supervising two separate field teams – one on the Great Dyke and the other on Archaean gold and base metals. Also involved in drawing up training schedules for new recruits and assisting the exploration manager in the preparation and monitoring of budgets.

- Supervised the geological evaluation work that led to the acquisition of the Isabella open pit gold mine (southwest Zimbabwe) by Anglo American.

Senior Geologist 1990-1991

Responsible for surface and underground exploration for chromium at Netherburn Mine (Lalapanzi), and for chromium-nickel-copper-platinum group elements on the Great Dyke with special emphasis on the Unki prospect. Was also responsible for training new graduates and technicians.

- Key member of the team that successfully carried out the first trial mining phase at Unki platinum group metal mine before its commissioning.

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**ZIMBABWE MINING DEVELOPMENT CORPORATION (ZMDC)
Group Chief Geologist 1989 – 1990**

Responsible for all aspects of geology on and off-mine including the preparation and monitoring of budgets, planning and organizing programs for resource and reserve generation, managing and controlling the work of consultants. The mines covered were Mhangura Copper Mines, Shackleton Copper Mine, Jena Gold Mine, Sabi Gold Mine, Elvington Gold Mine and Kamativi Tin Mines.

- Successful introduction of geostatistical techniques at all the mines and computerization programs.

Projects Manager 1988-1989

Responsible for planning and overall control of feasibility studies at the Bar 20 gold mine. Also tasked with production scheduling at Mhangura copper mines.

EDUCATION

M.Sc. (Economic Geology) - Rhodes University, South Africa (1995)
Diplome D'Ingénieur Expert – Nancy School of Mines, France (1987)
B.Sc. - University of Rhodesia, Zimbabwe (1979)

PROFESSIONAL DEVELOPMENT

Certificate in Mineral Deposit Evaluation – Imperial College, London
ACCA Certified Diploma in Accounting and Finance - Glasgow, UK
Full Blasting Licence - Ministry of Mines, Zimbabwe
Advanced Management Programme - UNEIF

PROFESSIONAL AFFILIATIONS

Association of Professional Geoscientists of Ontario (Membership # 1618)
Australasian Institute of Mining and Metallurgy (Membership # 300395)
Prospectors and Developers Association of Canada (Membership # 216300)
Toronto Geological Discussion Group
Member and former Treasurer of the Geological Society of Zimbabwe
Member of the Association of Chartered Certified Accountants – International

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SCIENTIFIC PUBLICATIONS

Wilson, A.H., Murahwi, C.Z. and Coghill, B.M. (2000). The Geochemistry of the PGE Subzone in the Selukwe Subchamber, Great Dyke: an intraformational – layer model for Platinum Group Element enrichment in layered intrusions. *Mineralogy and Petrology*. Vol. 68. 115 – 140.

Wilson, A.H., Murahwi, C.Z. and Coghill, B.M. (2000). Stratigraphy, Geochemistry and Platinum Group Element mineralization of the Central Zone of the Selukwe Subchamber of the Great Dyke. *Journal of African Earth Sciences*. Vol. 30. 833 – 853.