

## **DIBYA KANTI MUKHOPADHYAY, M.Sc., MBA, MAusIMM(CP)** **Senior Mineral Resource Geologist**

### **BACKGROUND**

Dibya Kanti (DK) Mukhopadhyay is Senior Mineral Resource Geologist in the Norwich office of Micon International Limited. He has more than 16 years of experience in the minerals industry. DK has been employed by major international mining and resource companies in Asia and Africa and has worked as a mine geologist and exploration geologist in precious and base metal operations.

Mr. Mukhopadhyay's experience includes project appraisal and evaluation, orebody definition and modelling, sampling and assay quality control, support for metallurgical studies, grade control systems and open-pit and underground mine production, open-pit optimisation, cash flow modelling and sensitivity analysis for developmental projects. DK has mining industry operating experience gained in India, Armenia, Sudan and Tanzania and, prior to joining Micon, he held the position of Mineral Resource Geologist at the Bulyanhulu gold mine operated by Kahama Mining Corporation Limited, a subsidiary of Barrick Gold Corporation.

DK is a specialist Datamine and Surpac mining software systems operator and has extensive experience in creating mineral resource block models. He has created resource models for different mineral deposits in a variety of geological settings. He possesses strong geologic mapping and structural interpretation skills and is adept at incorporating these elements into mineral resource models.

### **RELEVANT PROFESSIONAL ASSIGNMENTS AND EXPERIENCE**

#### **Senior Mineral Resource Geologist: Micon International Co. Ltd.**

**Altynor Resources LLC:** Mineral resource estimation for Altynor gold deposit, Kazakhstan.

**Anatolia Minerals Development Limited.:** Mineral resource estimation for Çopler gold deposit, Turkey.

**Anglesey Mining Co.:** Mineral resource estimation for Parys Mountain polymetallic deposit, Wales, UK.

**Ararat Gold Recovery Co.:** Review of mineral resource model for Sotk gold deposit, Armenia and co-author of NI 43-101 Technical Report.

**Boliden AB:** Review of mineral resources for Aitik, copper-gold-silver mine as a part of a review of the feasibility study carried out by Boliden to assess increased production and resource base.

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**CJSC Jerooyaltyn:** Mineral resource estimation for Jerooy gold deposit, Kyrgyz Republic. Participated in and co-author of the Feasibility Study for the project.

**Endeavour Silver Corp.:** Audit of Mineral resources for Guanacevi project, Durango, Mexico and co-author of the NI 43-101 Technical Report.

**Explorator Resources Inc.:** Variographic analysis for a copper-gold project in Chile.

**Guyana Goldfields Inc.:** Mineral resource estimation for Aurora gold deposit in Guyana and co-author of the NI 43-101 Technical Report. An updated estimate was also prepared

**High River Gold:** Mineral resource estimation for Prognoz silver deposit, Republic of Sakha (Yakutia), Russian Federation and co-author of the NI 43-101 Technical Report. An updated estimate was also prepared.

**Industrias Peñoles S.A.:** Mineral resource estimation for Rey De Plata polymetallic deposit in Mexico.

**Inter-citic Minerals Inc.:** Mineral resource estimation for Dachang gold deposit in Qinghai Province, China and co- author of the NI 43-101 Technical Report. The resource model was used in preliminary assessment.

**MMC Intergeo:**

- Review of mineral resource model of Sigma-Lamaque gold deposit, Val d'Or, Quebec, Canada owned by Century Mining Corporation.
- Mineral resource estimation for Ak-sug porphyry copper-gold deposit, Todja Kozhuun District, Republic of Tyva, Russian Federation.
- Part of the team for fatal flaw analysis of mining assets of High River Gold in the Russian Federation and Burkina Faso.
- Review of resource model for the gold deposits of Serabi Mining Plc, Brazil.

**MMC Norilsk Nickel:**

- Mineral resource estimation for Verhnekingashsky and Kuyovsky nickel-copper-cobalt-platinum group metals in Krasnoyarsk Region, Russian Federation.
- Review of exploration properties in Australia.

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- Mineral resource estimation for Bugdainskoe molybdenum porphyry deposit, Chita Oblast, Russian Federation.
- Mineral resource estimation of Sopcheozerskoe chromite deposit, Murmansk Region, Russian Federation.
- Mineral resource estimation for Bystrinskoe polymetallic deposit, Chita Oblast, Russian Federation.

**Northland Resources Inc.:**

- Mineral resource estimation for Tapuli iron ore deposit in Sweden and co-author of the NI 43-101 Technical Report. The resource model was used in a preliminary assessment.
- Mineral resource estimation for Hannukainen iron-copper-gold deposit, Finland and co-author of the NI 43-101 Technical Report.

**OJSC Polyus Gold:**

- Mineral resource estimation for Chutovo Koriato gold deposit, Irkutsk Oblast, Russian Federation.
- Mineral resource estimation for Titimukhta gold deposit, Severo Yeniseysk Arca, Krasnoyarsk Region, Russian Federation.
- Fatal flaw analysis of mineral resource model for Varvarinskoe gold deposit, Kazakhstan owned by European Minerals Corporation.
- Mineral resource estimation for Natalka gold deposit, Tenkin district, Magadan Region, Russian Federation.

**Standard Bank Plc.:** Independent technical review of mineral resource model of Çaldağ nickel project, Turkey, owned by European Nickel.

**Tournigan Energy:** Mineral resource estimation for Currighnalt gold deposit, Omagh, Northern Ireland and author of the NI 43-101 Technical Report.

**Talvivaara Projects Limited:** Technical review of quality assurance and quality control data for the Talvivaara nickel project, Finland.

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**Senior Geologist: Barrick Gold Corporation, Bulyanhulu Gold Mine, Tanzania**

Responsible for mineral resource modelling of the Bulyanhulu gold deposit, Tanzania. Work included developing appropriate strategies for incorporating geological and exploration data into the Bulyanhulu block model.

- Development of mineral resource classification scheme for the operation.
- Analysis of block model and production results to reconcile resources depletion with metal produced.

**Exploration Geologist: Ararat Gold Recovery Company (Sterlite Gold Limited), Armenia**

Geologist in charge of exploration and mineral resource modelling during a major expansion of the mineral resource base of the Zod open pit and underground gold mine, Armenia. Responsible for grade control in the underground mine.

Responsible for the design and execution of exploration and mineral resource definition drilling programmes. Drilling included both surface and underground drilling utilising both diamond coring and reverse circulation drilling equipment.

Reconciled drilling results with pre-existing feasibility study results prepared by external consultants. Established protocols for collection, recording, validation and compilation of exploration data including statistical and geostatistical analysis. Implemented quality assurance/quality control procedures in the assay laboratory.

Created a mineral resource block model that incorporated elements of geology, mineralogy, structure and historical underground workings using Datamine mining software. The model comprised 10 major mineralized bodies and formed the basis of a positive prefeasibility study for the expansion of the mine. Isatis and Surpac software were also utilized.

**Assistant Manager – Geology: Research and Consultancy Directorate of ACC Limited, India**

ACC Limited of Mumbai, India is a major mineral resource evaluation consultancy recognised by leading industrial banks. ACC formed a Joint Venture with Rio Tinto, Australia and a group of consultants for base metal exploration in India. As Assistant Manager – Geology, was in charge of the geological data processing centre. Managed a team that operated one Datamine license and 10 Surpac licenses. The group developed more than 20 mineral resource block models.

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Supplied programming assistance for the creation of a report browser used to present geological data using Visual Basic and developed IMIS (Integrated Mines Information System), a customized GIS package using Map X and Visual Basic.

Provided training and support for mining engineers and geologists for Surpac and Datamine mining software.

**Senior Geologist: Gandil Mining Company Limited, Sudan**

The Gandil Mining Company is a subsidiary of M/S Abdul Lateef Jameel Group of the Kingdom of Saudi Arabia and operated a precious and base metal exploration programme in Sudan. As Senior Geologist, was responsible for planning and execution of detailed exploration activities in consultation with local government officials and consultants.

**Senior Geologist: Research and Consultancy Directorate of ACC Limited, India**

Geologist in charge of planning and implementation exploration projects in India. Work included generating block models on advanced exploration projects.

**AWARDS RECEIVED**

- Awarded by Ararat Gold Recovery Company for implementing systems and procedures best in the industry for exploration.
- Awarded Junior Research Fellowship from University Grants Commission, 1993.
- Awarded National Scholarship from University Grants Commission during graduation and post graduation, 1998, 1993.
- Best student award at School, 1987.
- Awarded Silver Medal in National Talent Search Contest in Mathematics, 1983.

**EDUCATION**

- B.Sc. Geology (Hons), Jadavpur University, Kolkata, 1991
- M.Sc. Applied Geology, Jadavpur University, Kolkata, 1993
- MBA, Norwich Business School, University of East Anglia, 2010.

**MEMBERSHIPS**

- Canadian Institute of Mining, Metallurgy and Petroleum
- Australasian Institute of Mining and Metallurgy, Chartered Professional

**LANGUAGES**

- Bengali (Mother Tongue), English, Hindi; working knowledge of Armenian and Arabic.