

SANDEEP PRAKASH, M.Sc., P.Geo.
Mineral Resource Geologist

BACKGROUND

Sandeep Prakash is a Mineral Resource Geologist with Micon International Limited, mineral industry consultants. He has 12 years of professional experience gained with mining and consulting companies in Canada, Sweden and India. Mr. Prakash is a Professional Geoscientist registered with the Association of Professional Geologists of Ontario (APGO). He has held various positions with major mining companies Phelps Dodge Corporation (Freeport McMoran Copper and Gold Inc.), Aur Resources Inc. (Teck Resources Limited), and Platinum Group Metals. He has direct experience using a number of GIS and remote sensing software packages, together with geological modeling software, Datamine, Gemcom and GOCAD.

PRIOR EXPERIENCE

GIS Manager, Platinum Group Metals (Canada), 2010 – 2011

- **Geology:** Preparing geological map for mineral exploration and presentation. Use Geographic Information System (GIS) for highlighting potential exploration based on Geological, Geophysical and Geochemical data. Creating regional scale geological model for gold exploration in Nevada and Ontario to identify deep targets based on faults, historic drilling and geophysics. Establishing three dimensional targets helps to identify drill target based on regional structure, geology and alteration. Structural mapping using airborne magnetics so that existing exploration can be combined with geology and alteration for deposits. Identified numerous drill targets for PGM exploration in northern Ontario based on geology Geophysics (Magnetics, VTEM) and Geochemistry.
- **Resource Estimation:** Resource evaluation and estimation, geostatistical analysis and the construction of 3D geological ore body models in Gems software. Performed variography, grade interpolation (Kriging and IPD), verification and validation of resource models. QA/QC implementation and monitoring quality checks on geological and assay data.
- **GIS:** GIS analysis using weights of evidence, managing drilling database and integrating field data into database and geological model using ArcGIS and Mapinfo software. Using GIS technology, tools and database to facilitate geoscience data integration into variety of digital and hardcopy products, prepare digital base map, construct and maintain database.

Resource Geologist, Almaden Resources, 2009 – 2010

- **Geology:** For Elk Gold project created and updated three-dimensional geological model and recommended additional drilling to ensure block models satisfy resource classifications and implemented QA/QC checks on assay data.

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- **Resource Estimation:** Resource evaluation and estimation, geostatistical analysis and the construction of 3D geological ore body models in Datamine Studio 3.0. Verification of resource model for Elk gold epithermal style quartz vein deposit. Creating 3D model of veins based on geology and assay to solve the geometry where the veins pinch and swell for further drilling to improve block model.

Senior Project Geologist/GIS Specialist, Caracle Creek International Consulting, 2007 – 2009

- **Geology:** Involved in mineral exploration with different types of deposits- VMS, porphyry, IOCG, epithermal, mesothermal and Shear-hosted Au deposits. Successfully worked on VMS magmatic Ni-Cu (\pm PGE) deposit drilling program in Northern Quebec James Bay district. The new drilling results will be combined historic drilling to produce and update resource estimation.
- **Resource Estimation:** Resource evaluation and estimation, geostatistical analysis and the construction of 3D geological ore body models in Datamine Studio 3.0. Performed variography, grade interpolation (Kriging and IPD), verification and validation of resource models. QA/QC implementation and monitoring quality checks on geological and assay data.

GIS Specialist, Aur Resources Inc., 2006 – 2007

- **Geology:** Preparing geological maps for mineral exploration and presentations. GIS analysis for highlighting potential mineral exploration based on Geological, Geochemical and Geophysical data. Data compilation, interpretation, target generation based on geology, geophysics and geochemistry using GOCAD software. Using GIS to highlighting potential exploration areas based on geological and geophysical data. Plotting maps and geological data in an effective manner for exploration and business development.
- **GOCAD:** Data compilation, interpretation, target generation based on geology, geophysics and geochemistry using GOCAD software. Preparing Common Earth Model (CEM) and analyzing risk management, decision making, whether the decisions concern exploration drill hole targeting, resource estimation, or engineering analysis.

Geologist, Phelps Dodge Exploration Corporation USA (Sweden), 2004 – 2004

- **Geology:** Conducted regional scale conceptual exploration based on geological, geochemical and geophysical data on the ongoing projects focusing Iron Oxide Copper Gold Deposits (IOCG) in Northern Sweden. Managed large area exploration and applied relevant ore deposit models and planned exploration programs.

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- **Geochemistry:** Planning geochemical explorations based on previous results on geological and geophysical trend. Field collection of BLEG (Bulk Leach Extractable Gold), stream sediment, rocks and channel sampling.

Project Geologist, Phelps Dodge Exploration India Pvt. Limited, 1999 – 2002

- **Geology:** Working in Geoscience with different projects to different geologic environments and explored for IOCG, VMS, SEDEX, epithermal and Shear-hosted Au mineralization. Performed geological, structural and alteration mapping and coordinated geochemical and airborne & ground geophysical surveys. Interpret different data to specifically define drill targets, and geophysical field studies and surveys before drill tested programs.
- **Geochemistry:** Planning geochemical explorations based on previous results on geological and geophysical trend.
- **Diamond and Percussion Drilling:** Performed and supervised RC & diamond drilling, logging, sampling and QA/QC implementation.

EDUCATION

- Advanced Diploma, Applied Geomatics Research, Nova Scotia Community College, 2005.
- Advanced Diploma, Geographic Information Systems, Centre of Geographic Sciences, Nova Scotia, 2004.
- Master of Science Geology, University of Delhi 1999.
- Bachelor of Science (Honors) in Geology, University of Delhi 1997.

PUBLICATIONS

Colville, David, Prakash, Sandeep (2010). Assessing twenty years of landcover change in southwest Nova Scotia. In S. Bondrup-Nielsen et al. (eds) 2010, Ecosystem Based Management: Beyond Boundaries, Proceedings of the Sixth International Conference on Science and Management of Protected Areas, 21-26 May 2007, ISBN: 978-0

FELLOWSHIPS AND AWARDS

- Mersey Tobeatic Research Institute fellowship. Value: \$12,000.
- Awarded Joint CSIR NET fellowship for research and lectureship in earth sciences, 1999.