Alexander Shchipansky

ITASCA

Principal Hydrogeologist

Expertise	Mining Engineering, Hydrogeology, Groundwater Flow Modeling
Education	Ph.D. (Hydrogeology), 1992, Mining Institute, St. Petersburg, Russia M.S. (Mining Engineering/Hydrogeology), 1984
Registrations	Mining Engineer/Hydrogeologist, CIS
Certifications	MSHA (Mining Safety and Health Administration), First Aid, CPR, WHMIS (Workplace Hazardous Materials Information System)

Professional Experience

2007 – Present	*Itasca Denver, Inc., (formerly Hydrologic Consultants, Inc.), Colorado* *Principal Hydrogeologist*
2002 – 2007	*Hydrologic Consultants, Inc. of Colorado, Lakewood, Colorado* *Senior Hydrogeologist*
1991 – 2002	*Hydrogeoecological Research and Design Company (HYDEC), Moscow, Russia* *Lead Research Hydrogeologist*
1984 – 1991	*All Union Research and Design Institute of Mineral Deposit Drainage (VIOGEM), Belgorod, Russia* *Research Scientist*

Project Experience

Conceptual and Numerical Hydrogeologic Modeling: Assessment of mining impacts on the quantity and quality of surface-water and groundwater resources and creation of protective measures for said resources, including water-resource protection systems, prediction of passive inflow to mines, design of dewatering systems for open-pit mines, and assessed leakage from tailings facilities; development of deep aquifers and petroleum reservoirs; prediction of regional hydrologic impacts of large water impoundments; design of field investigations of flow in fractured rocks; modeling of hydrocarbon spills, recovery of LNAPLs, mass transport and groundwater flow.

Field Testing: Design and testing of solute migration in fractured rocks, planning and design of point piezometers in pit highwalls.

Laboratory Testing: Design and testing of laboratory columns and physical model experiments to evaluate adsorption agents on various materials.

Hydrogeologic Analysis: Mine dewatering, water resource development and protection, development of deep aquifers and petroleum reservoirs, and assessment of hydrocarbon contamination.