

**Jeff Reinson** is Bluestone Resources Vice President, Project Development, responsible for overseeing the feasibility study currently underway on the Cerro Blanco gold project. Additionally, Mr. Reinson provides leadership over all site development and project execution related activities for the Cerro Blanco gold and Mita geothermal projects in Guatemala.

Mr. Reinson is a civil engineer with over 25 years of experience leading major heavy civil infrastructure and mining projects from early conceptual studies through to execution and handover. After spending 10 years honing his technical expertise as a consulting engineer, Jeff has spent the last 15 years of his career with major international mining companies leading or supporting large, multi-disciplined project teams throughout Mexico, Colombia, Chile, Peru, and Canada. Most recently Jeff was a Project Director at Goldcorp where he was leading the safe management and construction of Penasquito's tailings storage facility expansion and a large groundwater remediation project.

Jeff holds Master's and Bachelor's degrees in civil engineering from the University of Saskatchewan where he also received the Wong-Fredlund Unsaturated Soils scholarship.

**Title:** Cerro Blanco Underground Mine: 100+ °C Water - Taking Challenges from Risks to Opportunities to Reality

**Abstract:** The Cerro Blanco Project near Asuncion Mita, Guatemala presents numerous water management challenges in development of the underground mining operation. Historic underground development at the project was challenged by groundwater inflows into the mine openings that 'flashed' (i.e. low-pressure steam created when hot water is released from a high pressure to a lower pressure) as the water was exposed to atmosphere. Bluestone Resources Inc. has engaged with geothermal energy production experts to not only evaluate how the geothermal reservoir can be used to provide renewable energy for the project, but also to evaluate how to install wells within the underground development to manage the +100 °C Water. In addition, Bluestone is evaluating the use of adsorption chillers to use heat (i.e. energy) from the underground water to drive the cooling process.