

**Association of Environmental and
Engineering Geologists – Arizona Section**

AEG/SME Joint Dinner Meeting

Thursday, January 19, 2012

Radisson Hotel Phoenix North

6:30 PM Mingling and Drinks

Sponsor: Boart Longyear

7:00 PM Dinner and Presentation

SPEAKER:

William D. Leech, P.E.

Senior Consultant – Senior Mining Engineer, Golder Associates

PRESENTATION:

**Shaft Construction Fundamentals
for Mine Development and Civil Infrastructure**

Cost: \$25 AEG Member / Non-Member / Students

**Location: Radisson Hotel
427 North 44th Street
Phoenix, AZ 85008
(602) 220-4400**

RSVP by Monday January 16, 2012 to Naida Causevic at
naida.causevic@amec.com

Abstract

Shaft Construction Fundamentals

In the mine development and civil infrastructure industries shaft construction is one of the means to gain access to an underground space. Shaft construction dates back to the early times of man's existence: first for mining works and then followed by civil works. This presentation will briefly inform the audience of the fundamentals on how to build a shaft for mine development and for civil infrastructure. The building methods and means are different between two industries. Most mine development shafts are deep over 500 vertical feet in depth; whereas, most civil infrastructure shafts are shallow under 500 vertical feet in depth. The speaker will compare the sinking methods, the safety MSHA vs. OSHA requirements, and temporary and permanent lining types and construction methods required in both industries.

William D. Leech Biography

Bill has joined Golder Associates in June 2011. He will be working out of the Golder Denver office and in January of 2012 has moved to Denver on single status. Bill owns a home in Fountain Hills.

Bill has over 35 years of experience in the underground mine development and civil infrastructure industries. Over this 35 year time period, he has worked for designers, consultants, contractors, construction managers and owners. He has been on many projects around the world and throughout United States: Cajone Mine Project in Peru, C-b Oil Shale Project in western Colorado, Madiq Tunnel Project in Lebanon, Kárahnjúkar Tunnels-Hydroelectric Project in Iceland, Toronto-York Spadina Subway Extension in Toronto, Bath County Hydroelectric Project in western Virginia, and Superconducting Super Collider Project in Texas.

Bill has over seven years of project engineering in sinking shafts for mine development and civil infrastructure.

He is a licensed Professional Engineer in Virginia and Arizona, and is now a Registered SME Member. He graduated from the MacKay School of Mines at University of Nevada-Reno with Bachelor of Science Degree in Mining Engineering.