Field Trip Description:
From Denver, visit the world-class porphyry Mo deposits at Climax and Henderson (Freeport-McMoRan Copper & Gold) and the carbonate-hosted Ag-Zn-Pb manto deposits at Leadville. These deposits have been the source of leading research in porphyry Mo deposits and development of exploration methods. The Leadville district is noted for its long history of production, research on carbonate-hosted Ag-Zn-Pb-(Au) deposits, and the founding of the Guggenheim mining fortune, including the formation of ASARCO, Inc. The trip will include tours of the Climax and Henderson mines with updates in geology of both, then move to Leadville for numerous stops in the district. Overnight stays in Keystone and Leadville are included. Return to Denver.

Capacity: Minimum 20 / Maximum 30 participants, including leaders

Field Trip Leaders

Ralph Stegen,
Freeport-McMoRan,
ralph_stegen@fmi.com

Ralph J. Stegen is vice president for exploration with Freeport-McMoRan Copper and Gold. He is based in Tucson, Arizona, and is responsible for mine site exploration and resource block model activities at Freeport’s operations in North and South America. Ralph has worked on porphyry Mo and porphyry Cu-Mo deposits since 1985, including time as a geologist/chief geologist at the Morenci and Tyrone porphyry Cu deposits, and at the porphyry Mo deposit at Questa, New Mexico. Ralph, working for Freeport, has been active in the exploration drilling, mapping, and resource modeling activities at these Climax and Henderson. Prior to this, Ralph worked in exploration on carbonate-hosted manto systems in Leadville and Gilman, Colorado, and at the Park City and Tintic systems in Utah. His thesis was on geology and geochemistry of the manto deposits at Aspen, Colorado, under Dr. Tommy Thompson.

Ralph has been the field leader for SEG-sponsored field trips to the Climax and Henderson deposits in 2006 and 2010. He was the leader for a SEG field trip of the Morenci, Tyrone and Santa Rita porphyry deposits in 2007. Ralph also has led Arizona Geological Society field trips to Morenci, Tyrone, Santa Rita, and Ajo porphyry copper and Bisbee manto deposits in Arizona.

Tommy B. Thompson
University of Nevada, Reno,
thompston@mines.unr.edu

Tommy Thompson received his Ph.D. degree in geology from the University of New Mexico. On completion, he accepted a position at Oklahoma State University, where he and John W. Shelton developed the graduate program in geology. In 1973, Tommy joined the faculty at Colorado State University, where he advised more than 70 M.S. and Ph.D. students. He became a full-time consultant in 1995 to several companies, working primarily in the western U.S., Mexico, Peru, Chile, and Argentina. In 1997, he was named Director of the Ralph J. Roberts Center for Research in Economic Geology (CREG) at the Mackay School of Mines, University of Nevada, Reno, where he served through 2012. He continues there as professor of economic geology.

Tommy has consulted for more than 40 companies in the Western Hemisphere, working on porphyry copper, stockwork molybdenum, carbonate-hosted Zn-Pb-Ag-Au manto deposits, epithermal low- and high-sulfidation systems, uranium-bearing systems, and Carlin-type deposits. He co-edited and co-authored papers in the 1990 Economic Geology Monograph, Carbonate-Hosted Sulfide Deposits of the Central Colorado Mineral Belt.

Registration
Registration opens August 1, 2013 — Please register online: www.segweb.org/events

Early Registration (Deadline September 15, 2013):
- Members, $795
- Non-members, $895
- Member students, $395
- Non-member students, $445

Late Registration (After September 15, 2013):
- Members, $895
- Non-members, $995
- Member students, $445
- Non-member students, $495

Please note that SEG reserves the right to cancel this event should minimum attendance numbers not be met by September 15, 2013.
For further information on cancellation policy, event photography, and dietary restrictions, visit www.segweb.org/tc.