The Centre for Exploration Targeting (CET) is pleased to invite you to a Guest Lecture in the CET Seminar Series given by CET’s Dr Andreas Mueller

“*Intrusion-related Au-Cu deposits of the Skellefte district, Northern Sweden*”.

**ABSTRACT**

The 1.9 Ga Skellefte volcano-sedimentary belt at the southern margin of the Archean Norbotten craton contains more than 50 Cu-Zn VMS deposits and several intrusion-related Au-Cu and Au deposits, some hosted in the composite diorite-tonalite Joern batholith. The genesis of the gold-rich Boliden massive sulfide Au-Cu deposit (8.4 Mt at 15.5 g/t Au, 1.43% Cu) and of the nearby Kankberg Au-Te deposit (3.6 Mt at 3.8 g/t Au, 177 g/t Te) is controversial. Both are hosted by the submarine dacite-rhyolite succession but are structurally controlled and associated with quartz-sericite and quartz-andalusite alteration. Key mineral assemblages and chronology point to a distal intrusion-related rather than a seafloor volcanogenic origin.

**BIOGRAPHY**

Andreas studied at the Johann Wolfgang von Goethe University in Frankfurt and the Technical University of Clausthal, Germany. He worked as a project geologist for St. Joe Explorations GmbH on Kupferschiefer-type Cu-Ag mineralization. Subsequent employment with Schlumberger Middle East S.A. led to a position as Senior Field Engineer for drill hole geophysical logging and wire-line services in the offshore oil and gas fields of Abu Dhabi. In 1990, Andreas completed a Ph.D. study in economic geology at the University of Western Australia with a thesis on Archean gold deposits in the Yilgarn Craton emphasizing gold skarns. After a postdoctoral fellowship at Stanford University, California, he returned to Western Australia working as a consultant for various mining companies, mainly for Placer Dome Asia Pacific on projects in Western Australia, South Africa and the Caribbean.

**VENUE**

Woolnough Lecture Theatre (1.07), Geography and Geology Building
University of Western Australia, 35 Stirling Hwy, Crawley 6009
Pay parking is available along Fairway (approx. $1.50 per hour)

**TIME**

4:00 - 4:45pm Thursday, 18th April 2014

You are invited to join us afterwards for refreshments provided by our local SEG Student Charter in the CET Resource Room, Robert Street Building.