



***Geosciences Division***  
***Physical Research Laboratory***

**Tuesday Seminar**

**In situ petrological evidence from ophiolite suggest that  
mantle upwelling in spreading center initiated from  
mantle transition zone (> 410 – 660 km)**

**Abstract**

Ophiolites are generally considered as relics of spreading center. Geoscientists strongly believe that, spreading center rocks are derived from shallow upper mantle (< 90 km). But geophysical studies have shown that the root of the mantle upwelling beneath a spreading centre is at much greater depths (>100 – 410 km). To fill this knowledge gap present research has been carried out on mantle part of a well preserved Tethyan ophiolite (Nidar valley, SE Ladakh) along Indus Suture Zone. Finding of ultra-high pressure minerals infer that some part of the Nidar ophiolite have evolved from the mantle transition zone.

**Speaker: Dr. Souvik Das**  
**PDF, GSDN**

<b>Date</b>	<b>Time</b>	<b>Venue</b>
23-June-2015	16:00 hrs	Ground Floor Lecture Hall

**All are invited to attend and participate in discussion**  
Tea at 15:30 hrs