

**KEY FACTORS FOR STRUCTURAL EVOLUTION OF HAZARA KASHMIR  
SYNTAXIS IN NORTHERN PAKISTAN**

**Atif Ullah, Shah Faisal and M. Sufyan Qazi**

*National Centre of Excellence in Geology, University of Peshawar*

atifullah78672@yahoo.co.uk

**Abstract**

Hazara Kashmir syntaxis is an antiformal structure in northern Pakistan. Three important factors are instrumental in its evolution and present appearance. The presence of salt in region below western limb provide decollement for thrust sheets to move above it forming an elongated stretched western limb and absence of salt below eastern limb make it short and more deformed. Secondly there was an initial dome over which different thrust sheets were overridden. Finally the counterclockwise rotation of underlying block produced sinistral shearing in the apex region of HKS forming it presently the most evolved structure of the northern Pakistan. The exceeding sinistral shearing and continued anticlockwise rotation of under laying block had altered the NS transport direction into NW SE transport direction and facilitated the present orientation of Balakot Bagh fault in the region.