## The Panjal Sea, Kashmir Hazara Microcontinent and Hercynide Geology of Northwest Himalaya in Pakistan

TALK

## M.N. CHAUDHRY\*, M. GHAZANFAR\* & J.N. WALSH\*\*

This paper discusses the tectonic significance of the Permian lanjal Volcanics of Kaghan Valley on the basis of an overview of geology, field relations and associated rocks. It is proposed that more than 400 km long rift related, generally terrestrial ranjal suite developed into an incipient ocean, the ranjal Sea with continental to oceanic transitional to oceanic crust in Kaghan area. Hajor element, trace element and R.E.E. characteristics appear to corraborate this conclusion.

North of this incipient ocean lay the Kashmir Hazara microcontinent. The permian Panjal Sea which developed during rifting of Gondwanaland closed during Triassic when the overlying Malkandi limestone was deposited and Neo Tethys started opening to the north of the Kashmir-Hazara microcontinent.

<sup>\*)</sup> Institute of Geology, Punjab University, Quaid-e-Azam Campus, Lahore, Pakistan

<sup>\*\*)</sup> Royal Holloway and Bedford New College, University of London, Geology Department, Queen's Building, Egham Hill, Egham, Surrey, TW 20 0EX, United Kingdom