

**Tananao Metamorphic Basement of Taiwan:  
A Retrospect and A Prospect**

**Tzen-Fu Yui**

**Institute of Earth Sciences, Academia Sinica, Taipei, Taiwan**

The Tananao metamorphic basement of Taiwan has been subjected to multiple stages of metamorphism. To re-construct its tectonic history through stratigraphic, structural, petrologic and geochronologic analyses is the ultimate goal to understand this metamorphic complex. Recent studies showed that the present mineral assemblages in most pelitic rocks of this complex might have largely resulted from the late Cenozoic collision tectonism. Mesozoic tectonic records could only be retrieved from, other than granitic intrusions and tectonic blocks, some micro- to nano-scale mineral inclusions in rocks of specific chemical composition. SHRIMP dating on zircons also tentatively identified a stage of granitic intrusion and amphibolite-facies metamorphism at 190-200 Ma, in addition to the late Mesozoic (~90 Ma) and late Cenozoic (<5 Ma?) tectonic events. Further detailed studies on appropriate samples are necessary to unravel the complicated geohistory of this basement complex.