**Gc-006** Room: C415 Time: June 26 15:15-15:30

Proterozoic metamorphic rocks in the northeastern Queensland, Australia: A problem of the break up of Rodinia

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The Greenvale Subprovince, Queensland, consist of Proterozoic rocks (mafic/ultramafic rocks and quartz-feldspathic schist) and Early Paleozoic metavolcanics which occur in N-S trending zones with fault boundary. This occurrence may indicates complicated tectonic evolution around the Greenvale Subprovince after the break up of Rodinia.

Hornblendes from amphibolites gave Ar-Ar minimum ages ranging from ca.1300 to 460 Ma. Black et al.(1979) suggested that these age differences indicated polydeformation of a geological unit.

Our research reveals; 1.amphibolites are blocks surrounded by quartz-feldspathic schist and they both may not indicate the same ages. 2.Atleast two different lithologies are discriminated in the quartz-feldspathic schist. Their metamorphic history may have not been the same.