

General Theme 7

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This session sponsored by the International Lithosphere Program (ILP) Task Force on Sedimentary Basins invites researchers to present their recent advances in the wide field of dynamics of sedimentary basins and underlying lithosphere at continental margins as well as within continental plates. We seek a stimulating session for promoting discussions of processes related to the formation and evolution of sedimentary basins together with the associated themes on geo-resources and geo-hazards. We look also for contributions linking deep and shallow processes in sedimentary basins at different temporal and spatial scales. The ILP Task Force on Sedimentary Basins promotes dialogue among researchers studying basins, those investigating deeper basins structure, and those developing numerical and analogue models of basin processes. We welcome contributions which analyse the structure and physical properties of basins and their landscape evolution, as well as the underlying crust and mantle, together with contributions that examine interactions between deep Earth and surface processes and the implications of these interactions for basin dynamics. We also welcome contributions that aim to understand and to predict processes that couple orogens and sedimentary basins processes through integration of field studies, analytical techniques or numerical/analogue modelling.