

General Theme 1

1.6

This session invites the presentation of recent advances in our understanding of Paleozoic carbonate biosedimentary systems. This includes the taxonomic and functional analysis of key fossils or specific groups of fossils as well as of biosedimentary structures (algae, skeletal metazoans, microbialites, bioherders, ichnofossils) in combination with their role in sediment production, sediment stabilisation, sediment texture, mound- and reef formation. Special emphasis should be given to pronounced episodes of biodiversification (Ordovician), long term trends as well as anachronistic patterns of sediment formation related to end-Ordovician, Devonian and end-Permian mass extinctions. Ideally, there should be a potential for upscaling and downscaling, from micro-biofacies to seismic expression and vice versa.