Convener: Prof. Richard Prikryl—Co-conveners: Ákos Török

A subtle balance between sustainable development and needs of the society for the development of the infrastructure means, among others, a meaningful usage of available natural resources. Infrastructure may be of many aspects, such as roads, railways and houses, i.e. structures requiring huge amounts of construction materials. Aggregates are the most widely used geomaterials (25 billion tonnes exploited annually) and represent critical raw material used in the current building sector. Geological aspects of aggregates covered by this session will encompass: impact of aggregate quarrying on the environment; correct use of aggregates (to meet specifications and needs of market); non-conventional materials and industrial waste for aggregates; testing of aggregates and quality demands; behaviour of aggregates in specific environments; alkali-silica reactivity and its testing; and influence of petrographical parameters and genetic factors on mechanical properties of aggregates.