This session aims to enlighten and emphasize the importance of applied geology as one of the key factors in rational designing and construction of large-scale infrastructure projects such as motorways and railways. Contributions should range over a wide spectrum of the applied geology involvement through development of site investigations and characterization, empirical and numerical modelling, presenting illustrative and innovative case studies of infrastructure projects, and to underline needs and benefits of cooperation between geologists and civil engineers, which seems to be the weakest link in the designing process. Whether it is needed to perform bearing capacity and settlement calculations, slope stability or some other analysis, particular emphasis is placed on determining appropriate soil and rock parameters as they are the basis of every geotechnical design. The experiences and lessons learnt from past projects are highly appreciated and warmly welcome in the session.