

## Instrumentation of infrastructure for seismicity and structural monitoring

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Damaging effects of earthquakes have been felt in many countries all over the world throughout history. With increased population growth, urbanization and infrastructure development the social and economic toll have been significant in recent years. The stakes now are higher than ever and the risks are only expected to grow. Seismic instruments developed over the last century have been very useful to scientists in detecting and recording ground motions accurately. At national and regional levels, the data helps develop better understanding of mechanism of earthquakes and estimate probabilities of future events. For individual structures, particularly for critical facilities such bridges, dams and nuclear power plants the recorded ground motions they are used to assess performance and damage for monitoring condition and safety. Background, development and some examples of seismic instrumentation of infrastructure will be presented during the seminar. Details of one particular project will be discussed with details.

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