

Planned activities for 2010

1. Identification of passive monitoring systems used in seismic isolation and antivibratorie of viaducts and bridges.
2. Structural analysis of passive systems boundary of viaducts and bridges.
3. Functional analysis of passive systems boundary of viaducts and bridges.
4. Analysis of pulse parameters from the traffic demands.
5. Analysis of dynamic requests parameters from seismic activity.

Planned activities for 2011

1. The excitations analysis from road traffic and the seismic activities in the frequency domain for the frequency critical fields detection of structural integrity for bridges and viaducts.
2. The analysis of the possible degradation that may appear from various causes: manufacturing, fabrication, parametric changes over time.
3. Physical and mathematical modeling of viscoelastic systems.
4. Experimental testing of viscoelastic systems in different dynamic regimes application.
5. Physical and mathematical modeling of the bridge structure (viaduct) seismically isolated by viscoelastic systems and with dry friction.
6. Numerical testing of the bridges theoretical models in the dynamic loads hypothesis.