

## ISSUE: 08. ROAD BRIDGES IN WINTER CONDITIONS

**SUB-ISSUE:** Impact of de-icing salts on bridges and measures for protection

**Session:** 06/02/2014 ( 08:30 - 10:00 h )    **Poster:** 06/02/2014 ( 15:30 - 18:30 h )

**Room:** A

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**Presentation title:**

ASSESSMENT OF THE HARMFUL EFFECTS OF ROAD SALT ON THE STRUCTURAL STATE OF THE BRIDGES IN THE PRINCIPALITY OF ANDORRA

**Summary:**

The roads in the Principality of Andorra are subjected to rigorous conditions of cold and snow over long periods of between four and ten months of the year depending on the area. During these months and with the aim of guaranteeing road safety, large quantities of road salt are spread on the roads. These salts constitute a source of free chloride ions which affect our structures and subject them to processes of chloride aggression which favour the process of localized corrosion in the reinforced steel bars and other metallic elements.

