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## ISSUE: 05. OPERATIONAL APPROACHES, EQUIPMENT AND PRODUCTS FOR WINTER CONDITIONS

**SUB-ISSUE:** Deicing products and testing

**Session:** 05/02/2014 ( 08:30 - 10:30 h )

**Poster:** 06/02/2014 ( 09:30 - 12:30 h )

**Room:** C

**Presenter:** Mr. Matas Bulevicius

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**Presentation title:**

MATERIALS AND TECHNOLOGIES FOR WINTER ROAD MAINTENANCE IN LITHUANIA

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**Summary:**

Winter season in Lithuania lasts 5-6 months. Therefore, the problems of road safety assurance are faced. In Lithuania, like in many European and other countries in the world, traditional materials of winter road maintenance are used: NaCl, CaCl2, their mixes or more ecological products manufactured on their basis. On gravel roads or low-volume roads the mixes of NaCl and frictional materials (sand, crushed stone) are used. For maintenance purposes (to reduce slipperiness) a wet salt technology is applied or spreading of chloride- frictional material mixes. In order to investigate an efficiency of different skid-resistant materials, in 2011-2013 the field measurements and laboratory tests were performed. During the first stage, laboratory tests of five different skid-resistant materials were carried out using different testing methods. During the second stage, three skid-resistant materials of different properties were selected and, having constructed experimental road sections, measurements of the change in road slipperiness and snow cover in respect of time were carried out under different environmental conditions and thicknesses of snow and ice cover. Measurements were carried out with the help of an optical friction measuring device RCM 411.