

**Road Weather Management Program
Best Practices for Road Weather Management**

PUBLICATIONS LIST

TITLE:

PERCOSTATION FOR REAL TIME MONITORING MOISTURE VARIATIONS, FROST DEPTH AND SPRING THAW WEAKENING

ABSTRACT:

This paper presents the findings of the research and product development project, in which percostation (the road structure moisture, frost depth and spring law weakening monitoring station) was installed on a road in Rovaniemi, Finland. Percostation can be used to assist road officials in tracking real-time moisture levels, depth of the frost and especially the risk for the permanent deformations in the road structure during the spring thaw season. Based on the percostation measurement results, road officials can make decisions about measures to preserve the state of the road during critical conditions, for example by imposing weight restrictions during the worst thaw softening period.

SOURCE(S):

Transportation Research Board 81st Annual Meeting, Search TRIS <http://199.79.179.82/sundev/search.cfm>

Keyword(s):

Pavement condition