

**THÈME: 05. APPROCHES OPÉRATIONNELLES, ÉQUIPEMENTS ET
MATÉRIAUX POUR LE SERVICE HIVERNAL**

SOUS-THÈME: Impacts des produits de déverglaçage

Séance: 04/02/2014 (17:15 - 18:45 h) **Affiche:** 05/02/2014 (09:30 - 12:30 h)

Salle: C

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Titre de la présentation:

DYNAMIQUES DE TRANSFERT DES FONDANTS ROUTIERS DANS UN BASSIN DE TRAITEMENT

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Resumé (anglais):

Deicing products such as sodium chloride are known to have adverse effects on the environment. Every environmental compartment is concerned: groundwater, surface water, soil and ecosystems. After being applied on road either in its solid form, as a brine or as humidified salt, NaCl is transferred into the environment directly or after passing through various treatment and retention systems. Today, the concentration of chlorides rejected into the environment can only be regulated by controlling the water output flow of these systems. However, retention ponds, which aim to collect seasonal, chronic and accidental pollutions, are not designed to treat any kind of deicing products. Furthermore, on top of their direct environmental impacts, several studies showed that road salts increase the mobility of heavy metals. The relationship between road salt applications and heavy metals discharge in the outflow of retention and treatment ponds is hence of an undeniable importance.

