

ISSUE: 04. WINTER SERVICE MANAGEMENT

SUB-ISSUE: Tools for monitoring

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Presentation title:

FREEZING CURVE DEVELOPMENT FOR ROAD AND AIRPORT DEICERS: PHASE TRANSITION
TEMPERATURE DETERMINATION BY RAMAN SPECTROSCOPY

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Summary:

Winter maintenance is based on the intervention of operating services, as well as the use of deicers. Each year, in France, between 800 000 and 2 millions tones of deicers are spread thourought the road network. On the airport sector sodium chloride, due to its corrosivity, is replaced by sodium or potassium acetates and formates. All these deicers aim to prevent ice formation (preventive strategy) and/or improve the ice melting of snow residual film (curative strategy) at temperatures below 0°C.

