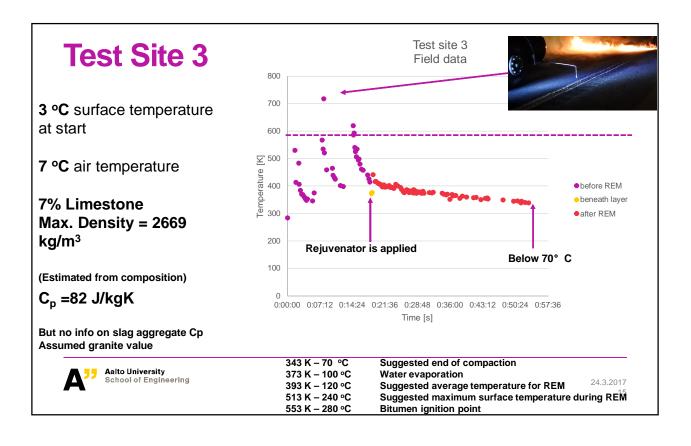
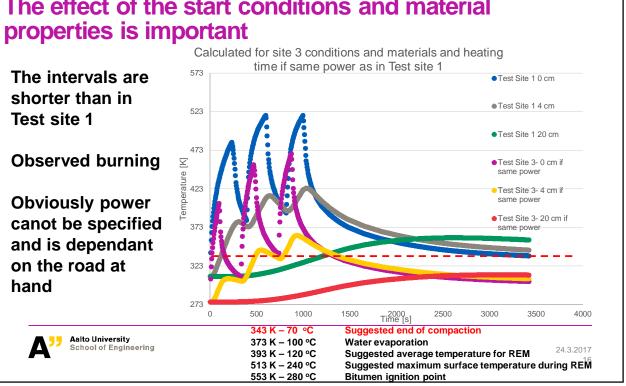
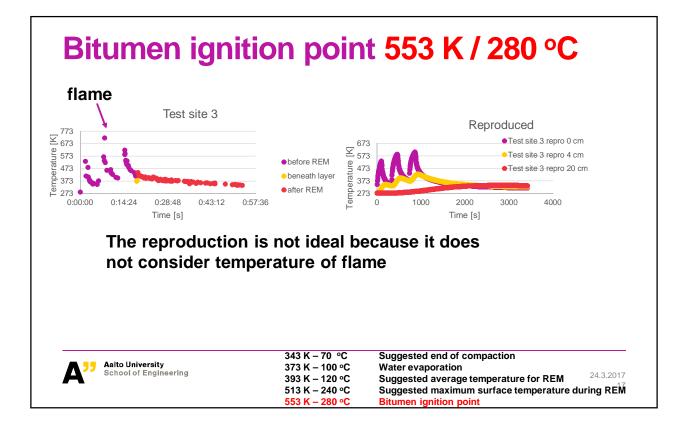


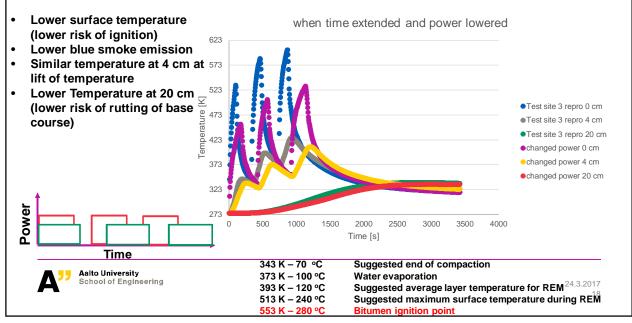
# Test Site 3, frosty night

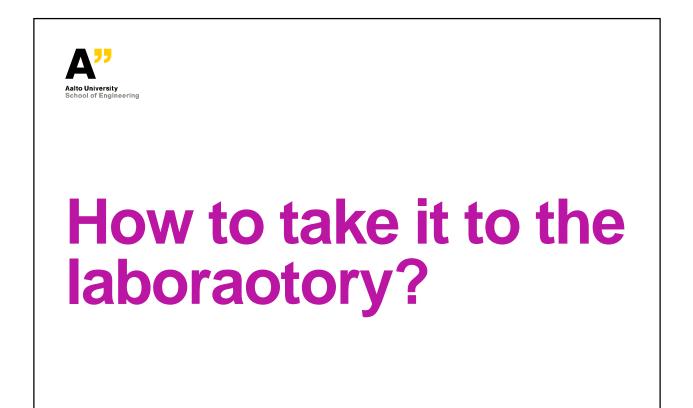






#### Avoiding emissions should be a target same energy is used, time extended but environmentally more correct and bitumen not destructed





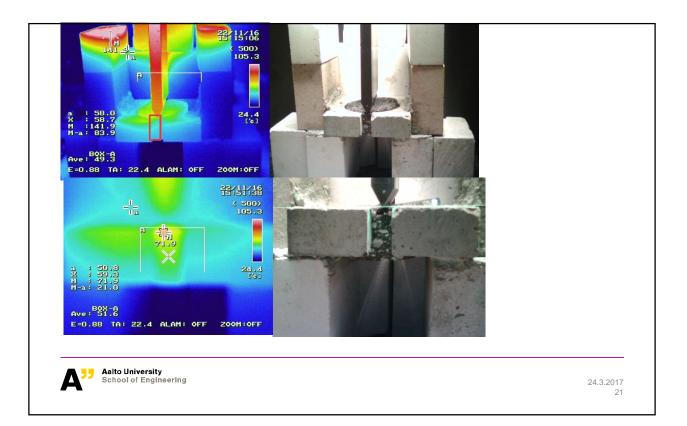
# Proof-of-concept "Asphalt softening Point test"

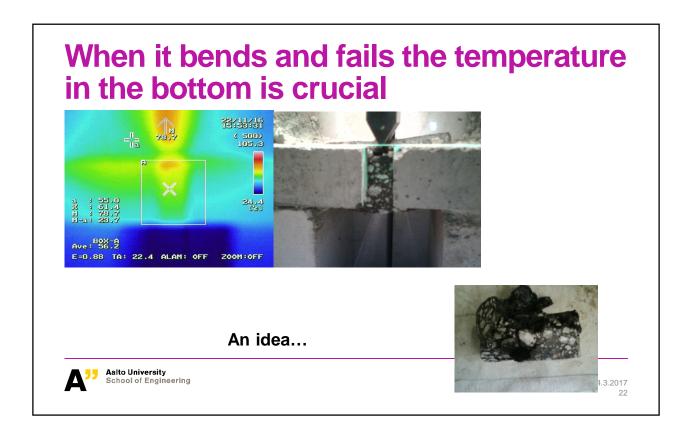


13 bricks,metal weight2 UV lampsa thermal camera



24.3.2017 20





## Conclusions

The exact power should be determined based on the environmental conditions, asphalt composition, road structure et.

Structure: If layers are detached – risk of ignition higher

Suggested is lower power for longer time

Especially if burning and ignition is observed – lower the power and slow down

Bitumen ignition point should be avoided

Development of a simple Asphalt softening Point test is advised

Aalto University School of Engineering

24.3.2017

## **Plans for the future**

- 1. (Defend PhD)
- 2. Process the collected data
- 3. Process the data being collected from ongoing measurements
- 4. Write a summary and final report



Aalto University School of Engineering

24.3.2017 24