

## **Séminaire CEN - 3SR**

Vendredi 14 novembre 2014 - 14h30, salle K118 du LEGI

### **In Situ Micro CT Snow Metamorphism Studies**

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In this presentation we will discuss our recent studies using an X-ray computed micro-tomograph (micro CT) to examine the microstructural evolution of snow under either an overburden or a temperature gradient. For the former, both continuous and interrupted in-situ compression experiments were performed on three types of snow (fresh low temperature snow, fresh high temperature snow, and sintered low temperature snow, with densities ranging from 100-350 kg/m<sup>3</sup>) to investigate the effects of initial structure on both the stress-displacement curves and the structural changes during the compression tests. Similarly, the effect of a temperature gradient was studied in-situ using a temperature gradient cell in the micro CT on three different types of snow and on ice spheres.