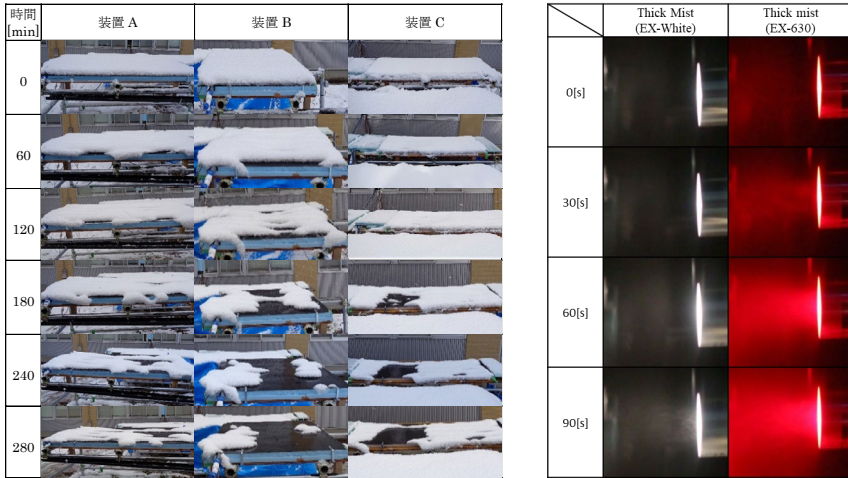


Melting + Condensation + Evaporation

Assistant Professor Kaoru Yasuhara



1. Hydronic snow melting roof

2. Mist visualization

Content:

Our theme is study and practical use of the phase transition.

1. Melting

Yamagata prefecture is one of heavy snow fall area in Japan. We develop the safer hydronic snow melting roof at lower cost.

2. Condensation

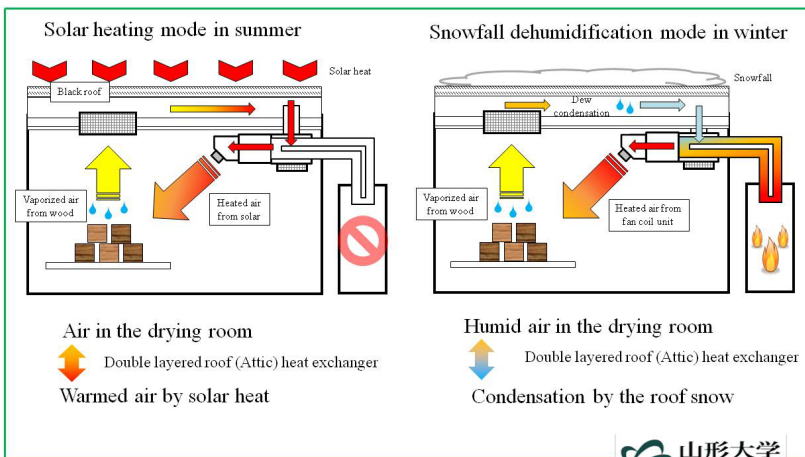
Mechanism of Mist formation has already been studied. To clarify the criteria and conditions of mist formation and disappearance is the target of this subject. It is attempted by both experiment and Machine Learning.

3. Evaporation

The target of this subject is drying wood with high moisture content, quickly and beautiful at low cost. Figures show the drying facility using solar heat and latent heat of snow.

Appealing point:

We are committed to contributing to society from basic and applied research in thermal engineering.
Professional Engineer JP (Mechanical Engineering)



3. Drying wood using solar heat and latent heat of snow

Yamagata University Graduate School of Science and Engineering
Research Interest : Thermal engineering

E-mail : caoru@yz.yamagata-u.ac.jp

Tel : +81-238-26-3233

Fax : +81-238-26-3233

HP : <https://handmtransfer.yz.yamagata-u.ac.jp/>

