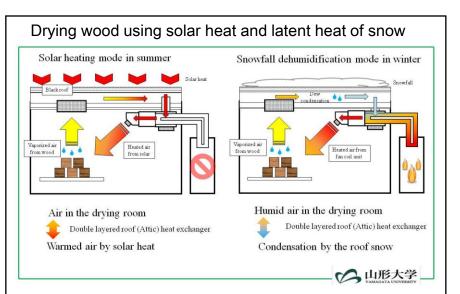
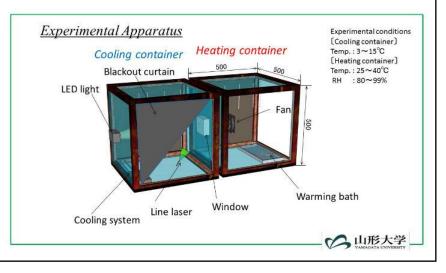
## **Control of temperature and humidity**

## Assistant professor Kaoru Yasuhara



Mist - Mechanism of formation behavior-



## Content:

It is necessary for our comfortable living and various applications to control thermal environment. Efficient heating and cooling, humidification and dehumidification of moist air is needed in various field. Conflicting phenomena 'Drying and mist formation' is the theme in this laboratory.

Drying wood is one of our subjects. The target of this subject is drying cedar wood with high moisture content, quickly and beautiful at low cost. We attempt development of heat exchanger and control of temperature and humidity in the drying room. Figures show the heat exchanger using solar heat and latent heat of snow for drying wood.

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 numerical simulation.

We are committed to contributing to society from basic and applied research in thermal engineering.

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 : handmtransfer.yz.yamagata-u.ac.jp

