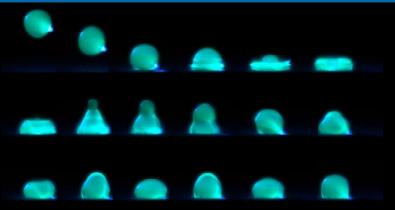
Luminescent Technique for Temperature Characterization of Supercooled Water





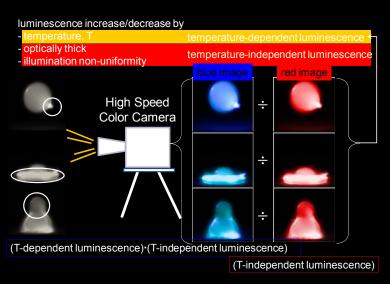


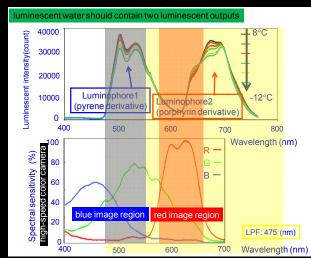
<u>Hirotaka Sakaue</u>, Katsuaki Morita, Yoshimi lijima Shigeo Kimura

We applied dual-luminescent technique to characterize the temperature distribution of the supercooled water.

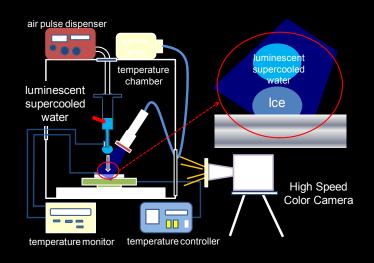


Dual Luminescent Imaging





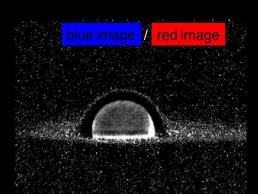
Temperature Measurement Setup



Imaging Results

Raw Luminescent Image





Temperature higher

- droplet diameter: ~ 2 mm
- images captured at 100 frames/s(~20 s video shown: FAST MOTION)

icing process was captured supercooled droplet \rightarrow 0 °C droplet another calibration for ice temperature will be necessary