

# International Workshop on Radar and Modeling Studies of Snowfall

## -Precise observation and modeling of solid precipitation-

Admission Free

### Program:

**Mar 18 (Wed) 08:45 - 18:00**

Welcome and Introductory Remarks

Atsushi Sato (Director, Snow and Ice Research Center, NIED, Nagaoka Japan)

### Session 1: Precise snow particle observations

Yasushi Fujiyoshi (Hokkaido University, Sapporo, Japan) : Toward improvement of microphysical processes within the melting layer

Masaaki Ishizaka (Snow and Ice Research Center, NIED, Nagaoka, Japan) : Observations of solid precipitation particles using the Falling-Snow Observatory of Snow and Ice Research Center NIED in Nagaoka

### Session 2: Modeling of solid precipitation

Ryohei Misumi (NIED, Tsukuba, Japan) : A parcel model simulation of graupel and snowflake formation in convective snow clouds over the Sea of Japan

Jen-Ping Chen (National Taiwan University): The effect of bacteria and mineral dust as ice nuclei on the formation of snow and graupel simulated with a regional model.

Takeshi Maesaka (NIED, Tsukuba, Japan) : A simulation of a lake effect snowstorm around the Great Lakes with a cloud resolving numerical model.

Yasutaka Ikuta (NPD, Japan Meteorological Agency) : Verification of solid precipitation using radar simulator for JMA nonhydrostatic model.

Masashi Ujiie (NPD, Japan Meteorological Agency) : Characteristics of cloud microphysics in JMA nonhydrostatic model on solid precipitation forecast.

### Session 3: Radar studies, comparison of observations and modeling

Sento Nakai (Snow and Ice Research Center, NIED, Nagaoka, Japan) : Comparison of CRM and surface/radar observations

Koyuru Iwanami (NIED, Tsukuba, Japan) : Hydrometeor type classification in winter clouds using X-band polarimetric radar measurements

**Mar 18 (Wed) Evening 19:00 -**

**Banquet**

**Mar 19 (Thu) AM 09:00 - 12:00**

### Session 3: Radar studies, comparison of observations and modeling

Tadayasu Ohigashi (HyARC, Nagoya University, Nagoya, Japan) : Observation and simulation on hydrometeor properties of snow clouds

GyuWon Lee (Kyungpook National University, Korea) : Density of snow and radar bright band

Hisaki Eito (Meteorological Research Institute, Tsukuba, Japan) : Verification of solid hydrometeor properties simulated by a cloud resolving model using passive microwave radiometer and radar observations.

Discussions: Future perspective of precise solid precipitation observation and its impact to the CRM and snowfall prediction

**Mar 19 (Thu) PM 13:30 -**

**Excursion to SIRC and nearby mountain stations**

### Place:

**Atrium Nagaoka Room Hakuhou**

(Address:Nagaoka,Yumi-cho 1-5-1 )

(5 minutes walk from JR Nagaoka Station)

### Contact:

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