Members of the Japanese consortium

Kitami Institute of <u>Technology</u>



Leader

Prof. Midori Kawamura



Prof. Yoshio Abe



Assoc. prof. Takayuki Kiba

Role: Preparation of BM films by PVD methods, and characterization

Hokkaido University

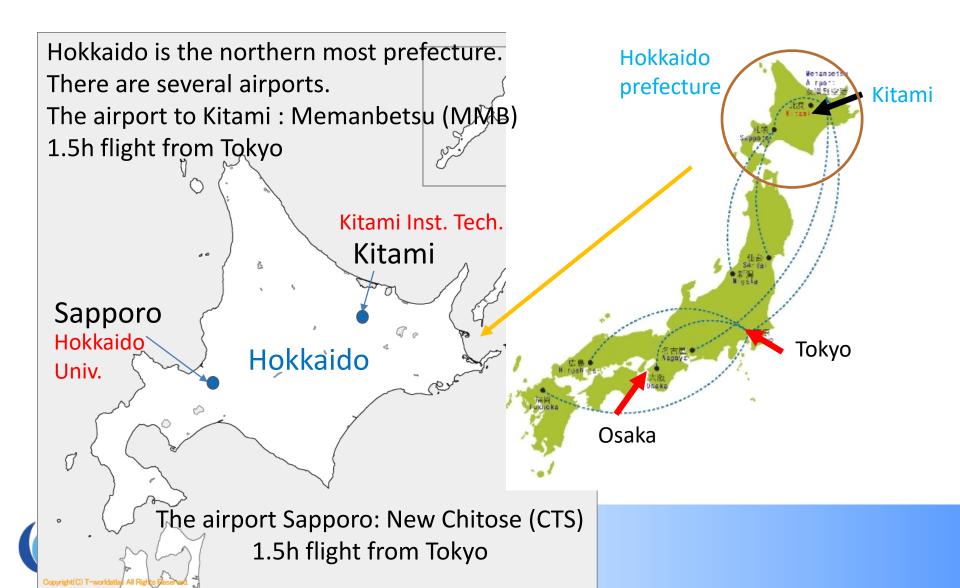
Role: Preparation of BM films by electrochemical method, and characterization



Prof. Mikito Ueda



Our locations



Kitami Institute of Technology

- National university corporation established in 1960.
- 2,000 students from all over Japan and abroad.



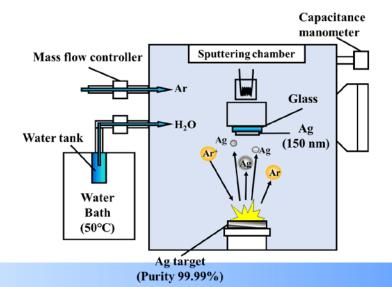


sputtering apparatus



Our main deposition apparatus

The substrate can be cooled down to liq.N2 temp. Water vapor can be introduced into the chamber.



vacuum evaporator



Hokkaido University

- National university corporation established in 1876.
- 18,000 students.





Our main apparatus

Electrodeposition and de-aluminium of Al-Au alloys in an argon atmosphere glove box.

Characterization of BM films using SEM-EDX, scanning XRF.

glove box and potentiostat



Our mission

We fabricate and characterize various BM films and develop a new fabrication process of BM.

- To determine the relationship between the physical properties of various BM films and their porosity.
- To identify the characteristics of BM films by different fabrication processes.
- To develop BM films suitable for QCM sensors.





