Program for “Session TECH”, Tokyo, June 3  
«Technology Development»

**OVERALL PROGRAM – JUNE 3**

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**Venue:** Plaza Heisei, Tokyo International Exchange Center  
**Room:** 4F Room 2

**Contact persons Horizontal Session TECH:**  
Takuji Nakamura, NIPR, nakamura.takuji@nipr.ac.jp  
Kristin G. Frøysa, CMR, Kristin.Guldbrandsen.Froysa@cmr.no

**Background:** The Arctic regions with cold climate and isolation from major cities pose many challenges when it comes to observations, data collecting and infrastructure. Japan and Norway have expertise in carrying out operations particularly in such severe polar circumstances.

**Objectives:** The session will address advances in technology development for sensors, observation systems and operations in polar environments, with potential for continued and new collaboration between Japanese and Norwegian research communities and companies.

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**Co-chairs:** Takuji Nakamura, National Institute of Polar Research (NIPR)  
Kristin G. Frøysa, Christian Michelsen Research (CMR)

14:15-14:30 **Development of wind lidar, and its potential and application for the observations in the Antarctic**  
Dr. Shumpei Kameyama, Mitsubishi Electric Corporation

14:30-14:45 **Japanese-Norwegian collaboration in EISCAT and recent developments of EISCAT_3D project**  
Prof. Cesar La Hoz, UiT – The Arctic University of Norway

14:45-15:00 **Cold water ecosystems studied in situ using multi-parameter platforms from Aanderaa/Xylem**  
Dr. Anders Tengberg, Aanderaa Data Instruments

15:00-15:15 **Disturbance and recovery of sea floor environments from earthquakes: results from long-term monitoring**  
Dr. Kazumasa Oguri, JAMSTEC

15:15-15:30 **Sustainable long-term observing systems for oceanic heat transport toward Arctic and Antarctic**  
Scientist Svein Østerhus, Uni Research

15:30-15:45 **Telemedicine development by Japan Antarctic Research Expedition**  
Giichiro Ohno, Tokatsu Hospital

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