

NORWAY-JAPAN SPACE SEMINAR

COOPERATION IN SPACE SCIENCE, TECHNOLOGY,
INDUSTRY AND POLICY

October
2nd - 3rd
2024



ABOUT THE SEMINAR

The space seminar will raise awareness among both the Norwegian and Japanese authorities about our cooperation, common interests, and future opportunities for joint space activities.

OCTOBER 2ND

Norwegian – Japanese space collaboration in the spotlight

Emerging challenges in the space domain and prospects for reinforced NO-JP partnerships

Space as a strategic asset

The Future of Norway-Japan Space Collaboration

OCTOBER 3RD

Space science and sounding rockets

Maritime domain awareness

Leveraging space through industrial cooperation

Organized by:



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WEDNESDAY OCTOBER 2ND

09.00	REGISTRATION AND COFFEE/TEA
10.00 - 10.30	WELCOME AND INTRODUCTION Welcoming Address Kristin Iglum, Ambassador of Norway to Japan Opening Address Christian Hauglie-Hanssen, Director General, Norwegian Space Agency (NOSA) & Hiroshi Yamakawa, President, Japan Aerospace Exploration Agency (JAXA) Keynote: Space Collaboration Between Norway & Japan - a Historic Overview Pål Brekke, Lead Space Science, NOSA
10.30 - 11.15	NORWEGIAN - JAPANESE SPACE COLLABORATION IN THE SPOTLIGHT Working together. Connecting Space & Ground: The Norway - JAXA Relationship Rolf Skatteboe, President and CEO, Kongsberg Satellite Services (KSAT) & Kenneth Olafsson, Representative Director KSAT Japan, Head of KSAT Asia JAXAs Space Science Activities Hitoshi Kuninaka, Vice President, JAXA Space Geodesy & its Value to Satellite Missions Per Erik Opset, Head Geodetic Institute, Norwegian Mapping Authority
11.15	COFFEE BREAK
11.45 - 12.45	Hinode - a Successful Japan-Norway Collaboration Taro Sakao, Associate Professor, Institute of Space and Astronautical Science, JAXA JAXA Sounding Rockets Launching From Norway Yoshifumi Saito, Professor, Institute of Space and Astronautical Science, JAXA Current Status of ALOS-4, JAXA's Earth Observation Satellite Satoko Miura, ALOS-4 Project Function Manager, JAXA Leveraging JAXA's ALOS-2/4 Earth Observation Satellite Data to Address R&D & Governmental Needs in Norway: From Landslides to Arctic Sea Ice Tom Rune Lauknes, Senior Researcher, Norwegian Research Centre (NORCE)
12.50	LUNCH
14.00 - 15.30	EMERGING CHALLENGES IN THE SPACE DOMAIN AND PROSPECTS FOR REINFORCED NO-JP PARTNERSHIPS Strengthening the Posture of Space Security and Expanding Cooperation with the Commercial Partners Kenji Minami, Deputy Director General, Project Management (Aerial Systems), Department Project Management, ATLA, Japan Ministry of Defense Norwegian Position on Climate and Sustainability Action - the Arctic in Focus Ole Morten Olsen, Director, Business Development and Innovation, NOSA Advancing Space Sustainability and Space Economy through the On-Orbit Servicing-Astroscale Japan's Efforts for Safe and Transparent RPO Aya Iwamoto, Vice President, Strategy and Policy, Astroscale Japan Inc. Opportunities Within Maritime Surveillance and Defense Arne Gjennestad, Vice President Business Development, Space Defence & Surveillance, Kongsberg Defence and Aerospace AS Panel Discussion with session speakers
15.30	COFFEE BREAK
16.00 - 17.00	SPACE AS A STRATEGIC ASSET Japan's Space and its Importance in National Strategy Kazuto Suzuki, Professor, Graduate School of Public Policy, The University of Tokyo Norway's Approach to a Joint Space Program Christian Hauglie-Hanssen, Director General, NOSA Andøya Space - Status for Norway and Europe's New Spaceport Ketil Olsen, CEO, Andøya Space Japan: Space as a Driving Force to Advance Various Social Innovations Masayasu Ishida, Co-Founder, President and CEO, SPACETIDE Foundation
17.00 - 18.00	PANEL DISCUSSION: THE FUTURE OF NORWAY-JAPAN SPACE COLLABORATION Christian Hauglie-Hanssen, Director General (NOSA), Benedicte Løseth, Executive Director - Research System and Internationalisation (Research Council of Norway), Rolf Skatteboe, President & CEO (KSAT), Riko Oki Director, Earth Observation Research Center (EORC), (JAXA), Kentaro Tanaka, Manager (SKY Perfect JSAT)
18.00	RECEPTION

THURSDAY OCTOBER 3RD

09.00	REGISTRATION AND COFFEE/TEA
09.30 - 09.45	OPENING OF THE 2ND DAY Recap of Day 1 Christian Hauglie-Hanssen, Director General, NOSA Expectations for Day 2 Simon Flack, Space Industry Coordinator, Innovation Norway
09.45 - 11.45	SPACE SCIENCE AND SOUNDING ROCKETS Grand Challenge – Solar Max Kolbjørn Blix, Vice President, Andøya Space Sub-orbital Plasma Observation by SS520-3 Sounding Rocket Kazushi Asamura, Associate Professor, JAXA NUCLEUS – a Norwegian Sounding Rocket Success Story Bastien Haemmerli, Senior System Engineer, NAMMO Collaborative Research Between Norway & Japan Based on EISCAT & EISCAT_3D Yasunobu Ogawa, Professor, National Institute of Polar Research (NIPR) Norwegian Probes on Japanese Sounding Rockets: Plasma Structuring Studied With the SS-520-3 Sounding Rocket Wojciech J. Miloch, Professor, University of Oslo Examples for Japan-Norway Collaborations in Space Research: MXD2 & EISCAT Ingrid Mann, Professor, University of Oslo Ground-Based Optical Observations in Norway Keisuke Hosokawa, Professor, Univ of Electro-Communications JPN-NOR Collaboration on Radiation Detection for Astronomy & for Safety on Earth Gunnar Maehlum, CEO, IDEAS
11.45	LUNCH BREAK
13.00 - 14.45	MARITIME DOMAIN AWARENESS Safe and Secure Maritime Operations through Satellites VDES Takashi Ogai, Manager, Space Systems Business Development Office Project Group Aero Engine, Space and Defence, IHI Corporation Norwegian VDES Activities Hans Christian Guren, Group Director of Innovation and Development, Space Norway / Einar By, Senior Sales Manager, Kongsberg Discovery Blue Justice Initiative Ole Morten Olsen, Director, Business Development and Innovation, NOSA Japanese VDES Initiative Challenges for MDA Takayoshi Fukuyo, Founder & CEO, ArkEdge Space Integrated Maritime Surveillance Marte Indregard, EVP Ground Network (GN), KSAT Panel discussion Takashi Ogai (IHI Corporation), Takayoshi Fukuyo (ArkEdge Space), Hide Sakaguchi, President, (Ocean Policy Research Institute - OPRI), Hans Christian Guren (Space Norway), Marte Indregard (KSAT)
14.45	COFFEE BREAK
15.00 - 16.00	LEVERAGING SPACE THROUGH INDUSTRIAL COOPERATION Spectrum - Your Small Satellite Launch Option from Norway Keiko Nasu, Sales Director, Asia, ISAR Aerospace Norwegian Green Propulsions Solutions for Launchers & In-Space Applications Kristian Lium, Vice President SPACE, NAMMO What Value can Microsatellites Bring to Society? Yuya Nakamura, President and CEO, Axelspace Corporation Panel Discussion Maja-Stina Ekstedt, EVP Sustainability (KSAT/NIFRO), Monica Ahyee, Director, Innovation Norway Nordland, Yuya Nakamura (Axelspace), Keiko Nasu (ISAR), Kristian Lium (NAMMO)
16.00 - 16.10	Closing remarks - Christian Hauglie-Hanssen, Director General, NOSA
16.10	NETWORKING

NORWEGIAN SPACE AGENCY - NOSA

MAKING SPACE VALUABLE TO NORWAY

The Norwegian Space Agency (NOSA) is operating on behalf of the Ministry of Trade and Fisheries. Our responsibility is to coordinate the Norwegian space policy, contribute to space activities that address societal change, facilitate growth and development of the Norwegian space sector.

Our vision is focused on positioning Norway as the foremost beneficiary of space activities. The vision is based on the idea that space can solve important needs in society, and foster a positive impact on innovation, the environment and society.

We coordinate Norwegian space policy and industry to develop the Norwegian space sector. Additionally, we are entrusted with the responsibility of enabling the government to harness Norwegian space efforts in a safe and efficient manner and ensure that public grants are used efficiently.

Our mission involves ensuring that the Norwegian space industry is internationally competitive, and that space activities are utilized for purposes beyond the space sector.

Norway participates in ESA initiatives, the EU program and have bilateral agreements with several countries and organizations. We have overseen Norway's membership in ESA since 1987.

In addition to being active in international organizations, Norway has agreements with several countries. Norway has a cooperation agreement with the Japanese space organization (JAXA) on research on northern lights and the Sun-Earth connection. This is done by using sounding rockets launched from Andøya and Svalbard as well as ground infrastructure. The Norwegian and Japanese space cooperation also includes solar research and data from several Japanese Earth observation satellites.

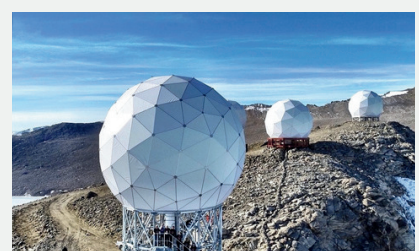
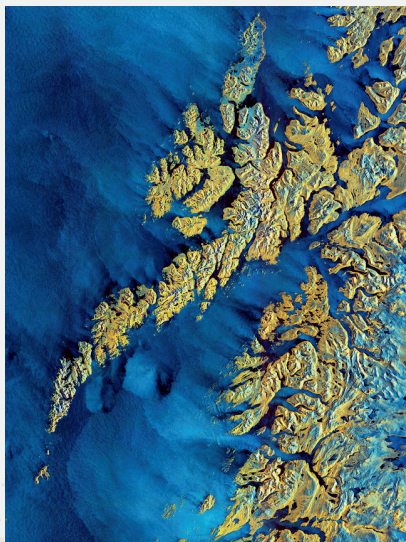
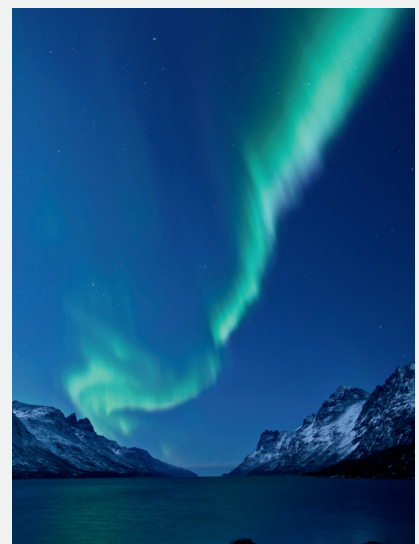
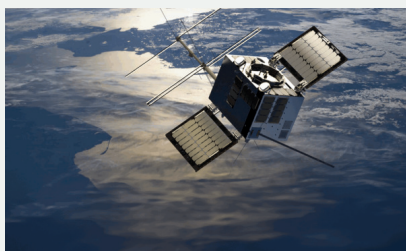


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KONGSBERG SATELLITE SERVICES KSAT

Kongsberg Satellite Services, commonly referred to as **KSAT**, is the world-leading commercial space communication service provider, with Headquarters in Tromsø, Norway. KSAT operates the world's largest global ground station network and focuses on providing Telemetry, Tracking and Commanding (TT&C) and Data Acquisition services to spacecraft operators. KSAT invests, integrates and operates the global ground network through key focus on providing **resiliency**, **security** and **scalability** to provide global mission support.



- 29 ground station sites worldwide, 350+ antennas, 450 KSAT employees
- Optimized for small satellite constellations and advanced ground station services supporting polar, inclined, and equatorial orbits
- KSAT Commercial Lunar ground network services
- Global antenna hosting, launcher tracking and satellite operations as a service (Satops)
- Earth Observation services provide global Near Real Time maritime domain awareness (MDA), dark target detection, surveillance and environmental monitoring



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