

Detailed Programme
Norway-Japan Space Seminar
2-3 October, Tokyo, Japan

Meiji Kinenkan, Tokyo

Wednesday 2 October

09:00 Registration and coffee/tea

10:00 Welcome and Introduction

Chaired by Svein Grandum, Norwegian Embassy, Trade and Technology Office

- 10:00-10:10: **Welcome address:** Kristin Iglum, Ambassador of Norway to Japan
- 10:10-10:20: **Opening address:** Christian Hauglie-Hanssen, Director General, Norwegian Space Agency (NOSA) & Hiroshi Yamakawa, President, Japan Aerospace Exploration Agency (JAXA)
- 10:20-10:30: **Keynote: Space collaboration between Norway and Japan – a historic overview,** Pål Brekke, Lead Space Science, NOSA

10:30 Session 1: Norwegian – Japanese Space Collaboration in the Spotlight

Chaired by Pål Brekke, NOSA

Part 1:

- 10:30-10:45: **Working together. Connecting Space and Ground: The Norway - JAXA relationship,** Rolf Skatteboe, President and CEO, KSAT & Kenneth Olafsson, Representative Director KSAT Japan, Head of KSAT Asia
- 10:45-11:00: **JAXAs Space Science activities,** Hitoshi Kuninaka, Vice President, JAXA
- 11:00-11:15: **Space geodesy and its value to satellite missions,** Per Erik Opset, Head Geodetic Institute, Norwegian Mapping Authority

11:15-11:45 Coffee Break

Part 2:

- 11:45-12:00: **Hinode – a successful Japan-Norway collaboration,** Taro Sakao, Associate Professor, JAXA
- 12:00-12:15: **JAXA sounding rockets launching from Norway,** Yoshifumi Saito, Professor, Institute of Space and Astronautical Science, JAXA
- 12:15-12:30: **Current Status of ALOS-4, JAXA's Earth observation satellite,** Satoko Miura, ALOS-4 Project Function Manager, JAXA
- 12:30-12:45: **Leveraging JAXA's ALOS-2/4 Earth Observation satellite data to address R&D and governmental needs in Norway: From landslides to Arctic sea ice,** Tom Rune Lauknes, Senior Researcher, Norwegian Research Centre (NORCE)

12:50-14:00 Lunch on site (buffet)

14:00 Session 2: Emerging Challenges and Opportunities in the Space Domain and Prospects for Reinforced NO-JP Partnerships

Chaired by Per Høyland, Senior Adviser for Strategic Analysis, NOSA

- 14:00-14:15: **Strengthening the Posture of Space Security and Expanding Cooperation with the Commercial Partners,** Kenji Minami, Deputy Director General, Project Management Division (Aerial Systems), Department Project Management, ATLA, Japan Ministry of Defense
- 14:15-14:30: **Norwegian position on climate and sustainability action - the Arctic in focus** Ole Morten Olsen, Director, Business Development and Innovation, NOSA

- 14:30-14:45: **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.
- 14:45-15:00: **Opportunities within Maritime surveillance and defense**, Arne Gjennestad, Vice President Business Development, Space Defence & Surveillance, Kongsberg Defence and Aerospace AS
- 15:00-15:30: **Panel discussion with session speakers**

15:30-16:00 Coffee break

16:00 Session 3: Space as a Strategic Asset

Chaired by Per Høyland, Senior Adviser for Strategic Analysis, NOSA

- 16:00-16:15: **Japan's Space and its Importance in National Strategy**, Kazuto Suzuki, Professor, Graduate School of Public Policy, The University of Tokyo
- 16:15-16:30: **Norway's approach to a joint space program**, Christian Hauglie-Hanssen, Director General, NOSA
- 16:30-16:45: **Andøya Space - status for Norway and Europe's new spaceport**, Ketil Olsen, CEO, Andøya Space
- 16:45-17:00: **Japan: Space as a driving force to advance various social innovations**, Masayasu Ishida, Co-Founder, President and CEO, SPACETIDE Foundation

17:00 Session 4: The Future of Norway-Japan Space Collaboration

Panel discussion:

- Moderator: Per Høyland, Senior Adviser for Strategic Analysis, NOSA
- 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 on site

Welcome by Ambassador Kristin Iglum

KSAT opening announcement, Representative Director KSAT Japan, Kenneth Olafsson

Kanpai speech by JAXA President, Hiroshi Yamakawa

Expected to end at 20:00

Thursday 3 October

09:00 Registration and Coffee/Tea

09:30 Opening of the 2nd Day

Chaired by Svein Grandum, Norwegian Embassy, Trade and Technology Office

- 09:30-09:35: **Recap of day 1**, Christian Hauglie-Hanssen, Director General, NOSA
- 09:35-09:40: **Expectations for day 2**, Simon Flack, Innovation Norway

09:45 Session 5: Space Science and Sounding Rockets

Session chaired by Pål Brekke, NOSA

- 09:45: **Grand Challenge – Solar max**, Kolbjørn Blix, Vice President, Andøya Space Sub-orbital
- 10:00: **Plasma observation by SS520-3 sounding rocket**, Kazushi Asamura, Associate Professor, JAXA
- 10:15: **NUCLEUS – a Norwegian sounding rocket success story**, Bastien Haemmerli, Senior System Engineer, NAMMO
- 10:30: **Collaborative research between Norway and Japan based on EISCAT and EISCAT_3D** Yasunobu Ogawa, Professor, National Institute of Polar Research (NIPR)
- 10:45: **Norwegian probes on Japanese sounding rockets: plasma structuring studied with the SS-520-3 sounding rocket**, Wojciech J. Miloch, Professor, University of Oslo
- 11:00: **Examples for Japan-Norway collaborations in space research: MXD2 and EISCAT**, Ingrid Mann, Professor, University of Oslo
- 11:15: **Ground-based optical observations in Norway**, Keisuke Hosokawa, Professor, Univ of Electro-Communications
- 11:30: **Japan-Norway collaboration on radiation detection for astronomy and for safety on Earth**, Gunnar Maehlum, CEO, IDEAS

11:45-13:00 Lunch on site (buffet)

13:00 Session 6: Maritime Domain Awareness

Chaired by Børre Pedersen, Sales Director APAC - Earth Observation, KSAT

- 13:00-13:10: **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
- 13:10-13:30: **Norwegian VDES Activities**, Hans Christian Guren, Group Director of Innovation and Development, Space Norway / Einar By, Senior Sales Manager, Kongsberg Discovery
- 13:30-13:40: **Blue Justice Initiative**, Ole Morten Olsen, Director, Business Development and Innovation, NOSA
- 13:40-13:50: **Japanese VDES Initiative Challenges for MDA**, Takayoshi Fukuyo, Founder & CEO, ArkEdge Space
- 13:50-14:00: **Integrated Maritime Surveillance**, Marte Indregard, EVP Ground Network (GN), KSAT
- 14:00-14:45: **Panel discussion:**
 - Moderator: Børre Pedersen, Sales Director APAC - Earth Observation, KSAT

- Takashi Ogai, IHI Corporation
- Takayoshi Fukuyo, Founder & CEO, ArkEdge Space
- Hide Sakaguchi, President, Ocean Policy Research Institute - OPRI
- Hans Christian Guren, Group Director of Innovation and Development, Space Norway
- Marte Indregard, EVP Ground Network (GN), KSAT

14:45-15:00 Coffee break

15:00 Session 7: Leveraging Space Through Industrial Cooperation: [Competitiveness, Sustainability and Solving Key Societal Challenges]

Chaired by Simon Flack, Innovation Norway

- 15:00-15:10: **Spectrum - Your Small Satellite Launch Option from Norway**, Keiko Nasu, Sales Director, Asia, ISAR Aerospace
- 15:10-15:20: **Norwegian green propulsions solutions for launchers and in-space applications**, by Kristian Lium, Vice President SPACE, NAMMO
- 15:20-15:30: **What Value can Microsatellites Bring to Society?**, Yuya Nakamura, President and CEO, Axelspace Corporation
- 15:30-16:00: **Panel discussion**
 - *Moderator: Simon Flack, Space Industry Coordinator, Innovation Norway*
 - Maja-Stina Ekstedt, EVP Sustainability & Public Relations KSAT & President, Norwegian Industry Forum for Space (NIFRO)
 - Monica Ahyee, Director, Innovation Norway, Nordland
 - Yuya Nakamura, President and CEO, Axelspace Corporation
 - Keiko Nasu, Sales Director Asia, ISAR Aerospace
 - Kristian Lium, Vice President SPACE, NAMMO

16:00 Closing Remarks

Christian Hauglie-Hanssen, Director General, NOSA

16:05 End of Programme

16:10-17:00 Networking – drinks and light food