

OCEAN x SPACE

ESA BUSINESS APPLICATIONS, SPACEPORT NORWAY 2018
AND NORWEGIAN SPACE CENTRE CONFERENCE

WELCOME & RECEPTION DAY - 22 MAY 2018

- 14:00 - 17:00 **Check in and registration, Clarion Hotel Energy**
- 17:00 - 21:30 **Welcome and opening reception for Ocean x Space:
A special cruise and dining experience on the spectacular Lysefjord**

DAY ONE - 23 MAY 2018

- 8:00 - 9:00 **Morning coffee & Expo, Stavanger Forum**
- 9:00 - 9:15 **Welcome to Ocean x Space by Spaceport Norway, ESA Business Applications & Norwegian Space Centre**
- [Spaceport Norway](#) (Ole Dokka, Executive Director)
[ESA Business Applications](#) (Nick Appleyard, Head of ESA Business Applications)
[Norwegian Space Centre](#) (Terje Wahl, Deputy Director General)
- Setting the scene for Day One:**
Sebastian Straube
Spaceport Norway host & Founder of Interstellar Ventures

KEYNOTES

- 9:15 - 9:30 **“Space infrastructure and Ocean Industry in Norway - strong legacy and future growth”**
Daniel Bjarmann-Simonsen
State secretary, Ministry of Trade and Industry, Norwegian Government
- 9:30 - 9:50 **“Space: the Mariner's greatest resource”**
Nick Appleyard
Head of ESA Business Applications
- 9:50 - 10:20 **“The overview effect - an astronaut's perspective on the ocean from ISS”**
Paolo Nespoli
ESA Astronaut
- 10:20-10:35 **“Satellites – The key enabler for autonomous operations at sea?”**
Gard Ueland
President, Kongsberg Seatex AS

Chairman, Galileo Services

10:35 - 10:50 **“Digitalisation, Satellites and Data Driven Operations in Statoil”**

Bernt E. Tysseland, Vice President Operations
COO Digital Centre of Excellence, Statoil ASA

10:50 - 11:05 **“AutoNavigation: Intuitive Autonomy on Mars and at Sea”**

Richard Rieber
Mars Mobility Flight Systems Engineer, NASA Jet Propulsion Laboratory

11:05 - 11:10 **INTERACTIVE: Q&A**

Moderated by Terje Wahl
Deputy Director General, Norwegian Space Centre

11:10 - 11:35 **Coffee Break & Expo**

[WORKSHOPS](#)

11:35 - 11:50 **ESA Business Applications: Introduction to funding opportunities**

Rita Rinaldo
Head of Institutional Projects, ESA

11:50 - 12:15 **ESA tutorials (parallel sessions)**

- How to write a good ESA Business Applications proposal (Norbert Hübner)
- How to convince investors (Jason Maroothynaden)
- How to register to EMITS/ ESA-STAR (Ian Downey)
- How to access Sentinel data (Roberto Cossu)
- Coaching for ESA Business Competition finalists ([Eggs Design](#)) - 11:30 start

12:15 - 13:15 **Lunch & Expo**

Special session in the lunch break:
ESA Astronaut Paolo Nespoli meets 1000 students from Junior High Schools in Stavanger

[SPECIAL TOPIC: ENERGY](#)

13:15 - 13:30 **“From Space to the Seven Seas, part II”**

Bernt Skeie
CEO, CMR Prototech

13:30 - 13:45 **“A new level of intelligence for the global LNG market – and perspectives beyond”**

Kjell Eikeland
CEO, Eikland Energy AS

13:45 - 14:00 **“Offshore oil spill detection and monitoring from low Earth orbit”**

Andreas H. Kaljord
Project Manager, KSAT AS

14:00 - 14:05 **Interactive: Q&A with the audience**

14:05 - 14:25 **ESA Business Applications projects, ENERGY**

[SatBAMS](#) John D. Byrne (CEO, Digital Array Control Systems Limited)
[WaterInfo](#) Frano Cetinic (CEO, EDInsights AS)

14:25 - 14:55 **Coffee Break & Expo**

SPECIAL TOPIC: INFRASTRUCTURE AND TRANSPORT

- 14:55 - 15:10 **“Oceans of change ”**
Johnny A. Johannessen
Research Coordinator at Nansen Center (NERSC, Norway)
Member of the Mercator Ocean Management Board
- 15:10 - 15:25 **"Space Applications in support to European Maritime Safety Agency's Integrated Maritime Services"**
Konrad Kurpinski
Project Officer, European Maritime Safety Agency
- 15:25 - 15:35 **“Digitalisation of the ocean - maritime IoT enabled by Norwegian New Space”**
Signe Marie Husø
Project Manager, Space Norway
- 15:35 - 15:50 **"Satcom Technology to shape the future of Autonomous Ships"**
Domenico Mignolo
Head of the Ground and User Segment Technologies and Products Section
European Space Agency
- 15:50 - 16:05 **“Omni-Situ surface currents: Using ships as in-situ sensors and machine learning to observe ocean dynamics from space”**
Yann Goichoux
CEO & President, eOdyn
- 16:05 - 16:20 **“Disrupting maritime transport and logistics - autonomous shipping projects in Norway”**
Ørnulf Jan Rødseth
Senior Research Scientist, Sintef Ocean
- 16:20 - 16:25 **Interactive: Q&A with the audience**
- 16:25 - 16:55 **ESA Business Applications projects, TRANSPORT**
- Astrocast** Bryan Eagle (VP Business Development, Astrocast SA)
Icecast Jaakko Ristaniemi (Senior Consultant, Navidium)
Muldiarcos Andreas KjøI (General Manager, Viking Ice Consultancy)
- 16:55 - 17:35 **ESA business competition: Finalists pitch session & voting**
- 17:35 - 17:50 **Art x Space**
Luci Eldridge
Artist
- 17:50 - 18:00 **Closing of Day 1**
- Spaceport Norway** (Ole Dokka, Executive Director)
ESA Business Applications (Jan Dettmann, Head of Outreach and Countries)
Norwegian Space Centre (Terje Wahl, Deputy Director General)
- Moderated by Sebastian Straube
Spaceport Norway host & Founder of Interstellar Ventures
- 18:00 - 19:00 **Personal time**
- 19:00 - 22:00 **Cocktails, dinner, entertainment and Spaceport Norway & ESA Business Applications Award Night**

DAY TWO - 24 MAY 2018

8:00 - 9:00 **Morning coffee & Expo, Stavanger Forum**

9:00 - 9:05 **Reflections from Day One**

[Norwegian Space Centre](#) (Bo N. Andersen, Director General)

Moderated by
Francesco Feliciani (Head of ESA Commercial Application Projects)

Setting the scene for Day Two:

Sebastian Straube
Spaceport Norway host & Founder of Interstellar Ventures

KEYNOTES

9:05 - 9:35 **“Space 4.0 - a path to new opportunities”**

Johann-Dietrich ‘Jan’ Wörner
Director General, European Space Agency

9:35 - 9:50 **“Helping to feed the world: Space technology as driver for reaching Sustainable Development Goals”**

Lorant Czarán
Program Officer, United Nations Office for Outer Space Affairs

9:50 - 10:05 **“Food production in the Moon Village and on Spaceship Earth”**

Ann-Iren Kittang Jost
Chief Scientist, CIRiS
Norwegian University of Science and Technology

10:05 - 10:20 **“Data from space – a platform for innovation across industries”**

Mona Skaret
Director of Private and Public Sector Innovation, Innovation Norway

10:20 - 10:35 **INTERACTIVE: Q&A**

Moderated by Bo N. Andersen
Director General, Norwegian Space Centre

10:35 - 11:00 **Coffee Break & Expo**

11:00 - 11:30 **WORKSHOPS (Parallel sessions)**

- How to write a good ESA Business Applications proposal (Norbert Hübner)
- How to convince investors (Jason Maroothynaden)
- How to register to EMITS/ ESA-STAR (Ian Downey)
- How to access Sentinel data (Roberto Cossu)
- Designing for success! ([Eggs Design](#))

SPECIAL TOPIC: FOOD & AQUACULTURE

11:30 - 11:45 **“New production concepts in salmon farming - threats or possibilities?”**

Audun Iversen
Scientist, NOFIMA

11:45 - 12:00 **“Green Fish Farm: Zero emission and Zero Waste Fish Farm concept using technologies developed for Space”**

Crina Silvia Ilea
Senior Researcher, CMR Prototech

12:00 - 12:15 **“Autonomous vehicles for in situ data collection of the Ocean space for maritime businesses”**

Lionel Camus
Senior Scientist, Akvaplan Niva

12:15 - 12:45 **ESA Business Applications projects, FOOD**

i-FishSat Joseph Muna (Avanti Communications Group)
Transparent Sea Gerd Eiden (Head of Service & Applications Department, LuxSpace)
MarIA Eibhlín O’Sullivan (Marine Applications Ltd)

Interactive: Q&A with the audience

12:45 - 13:00 **Summary and conclusions: Ocean x Space**

Spaceport Norway (Stig Erik Christensen, Spaceport Norway Committee)
ESA Business Applications (Jan Dettmann, Head of Outreach and Countries)
Norwegian Space Centre (Bo N. Andersen, Deputy Director General)

Moderated by
Sebastian Straube
Spaceport Norway host & Founder of Interstellar Ventures

13:00 - 14:00 **Lunch & Expo**