



KONGSBERG

# HUGIN AUV User Symposium

Tønsberg  
15 – 17 October 2025



## Day 1 - 15<sup>th</sup> October

|             |                                                                                          |                                           |                                       |
|-------------|------------------------------------------------------------------------------------------|-------------------------------------------|---------------------------------------|
| 08:30-09:00 | Registration                                                                             | Kongsberg Discovery                       | Irene Wikse                           |
| 09:00-09:05 | HAUS Formalities                                                                         | Kongsberg Discovery                       | Session chair - Sigurd A. Fjerdingsén |
| 09:05-09:15 | Welcome address                                                                          | Kongsberg Discovery                       | Martin Wien Fjell                     |
| 09:15-09:25 | Introduction to HUGIN AUV User Symposium (HAUS)                                          | Kongsberg Discovery                       | Espen Henriksen                       |
| 09:25-09:50 | Keynote - Historical use of HUGIN in the Royal Norwegian Navy                            | Royal Norwegian Navy                      | Helge Telle                           |
| 09:50-10:20 | Break                                                                                    |                                           |                                       |
| 10:20-10:45 | Discovery of the USS Edsall                                                              | Royal Australian Navy / Greenrom Robotics | Shane Ellis                           |
| 10:45-11:10 | HUGIN Endurance: From Days to Weeks of AUV Operation                                     | Kongsberg Discovery                       | Per Espen Hagen                       |
| 11:10-11:35 | Surface to Seafloor: Coordinated Autonomy with HUGIN, DriX, and Remote Technologies      | Oceaneering                               | Bryan Keller                          |
| 11:35-12:00 | HUGIN Survey AUVs - the way forward (HUGIN 3000, HUGIN 6000 and HUGIN Superior)          | Kongsberg Discovery                       | Stian Bentzen Kristoffersen           |
| 12:00-13:05 | Lunch                                                                                    |                                           |                                       |
| 13:05-13:10 | Introduction to afternoon session                                                        | Kongsberg Discovery                       | Session chair - Rich Patterson        |
| 13:10-13:35 | HUGIN Survey AUVs - the way forward (HUGIN Edge and Underwater Recovery Dock)            | Kongsberg Discovery                       | Martin Syre Wiig                      |
| 13:30-14:00 | Practical Experiences from AUV Operations in Brazil: Challenges, Solutions, and Outcomes | DOF                                       | Fabio Nobrega                         |
| 14:00-14:25 | HUGIN Nose Cone Release                                                                  | US Naval Oceanographic Office (NAVO)      | Timothy Jordan                        |
| 14:25-14:55 | Break                                                                                    |                                           |                                       |
| 14:55-15:20 | Customer Services for HUGIN AUV Users                                                    | Kongsberg Discovery                       | Petter Ramde                          |
| 15:20-15:55 | Preparation for Workshop / Group Discussion                                              | Kongsberg Discovery                       | Session chair - Rich Patterson        |
| 15:55-16:00 | Wrap up                                                                                  | Kongsberg Discovery                       | Session chair - Rich Patterson        |



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## Day 2 - 16<sup>th</sup> October

|             |                                                                                                                           |                                    |                                         |
|-------------|---------------------------------------------------------------------------------------------------------------------------|------------------------------------|-----------------------------------------|
| 08:30-09:00 | Registration                                                                                                              | Kongsberg Discovery                | Irene Wikse                             |
| 09:00-09:05 | HAUS Formalities                                                                                                          | Kongsberg Discovery                | Session chair -<br>Sigurd A. Fjerdingen |
| 09:05-09:30 | Keynote - Under Ice Operations in Antarctica                                                                              | University of Gothenburg           | Anna Wåhlin                             |
| 09:30-09:40 | Break                                                                                                                     |                                    |                                         |
| 09:40-10:45 | Workshop / Group Discussion                                                                                               | All                                | Session chair -<br>Sigurd A. Fjerdingen |
| 10:45-11:15 | Break                                                                                                                     |                                    |                                         |
| 11:15-11:40 | Munin AUVs at the Institute of Marine Research in Norway - What could possibly go wrong?                                  | Institute of Marine Research (IMR) | Joakim Skjefstad                        |
| 11:40-12:05 | Using AUV data for marine research at UiB: a key to understand the distribution of volcanic eruptions and marine minerals | University of Bergen               | Håvard Stubseid                         |
| 12:05-12:30 | The mineral survey migration with AUV, from understanding to extraction                                                   | Deep Sea Vision                    | Craig Wallace                           |
| 12:30-12:35 | Group Photo                                                                                                               | All                                | Session chair -<br>Sigurd A. Fjerdingen |
| 12:35-13:30 | Lunch                                                                                                                     |                                    |                                         |
| 13:30-13:35 | Introduction to afternoon sessions                                                                                        | Kongsberg Discovery                | Session chair - Rich<br>Patterson       |
| 13:35-14:00 | Oslofjord CMi testbed and KONGSBERGs role in Critical Infrastructure monitoring                                           | Kongsberg Discovery                | Arne Hestnes                            |
| 14:00-14:25 | Infrastructure inspection, SAS performance evaluation and automatic change detection                                      | FFI                                | Petter Lagstad                          |
| 14:25-14:50 | SEACURE - a sovereign European capability in future Anti-Submarine and Seabed Warfare                                     | Kongsberg Discovery                | Martin Syre Wiig                        |
| 14:50-15:15 | Break                                                                                                                     |                                    |                                         |
| 15:15-15:40 | Navigating the Unknown: Today's Tools, Tomorrow's Terrain                                                                 | Kongsberg Discovery                | Øyvind Hegrenæs                         |
| 15:40-16:05 | The electromagnetic sensor systems Listen and Whisper for HUGIN AUVs and other platforms                                  | Kongsberg Discovery                | Johan Mattson                           |
| 16:05-16:30 | Driving autonomy. The energy behind our AUVs                                                                              | Kongsberg Discovery                | Axel Reléfors                           |
| 16:30-16:35 | Wrap up                                                                                                                   |                                    |                                         |





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## Day 3 - 17<sup>th</sup> October

|             |                                                                                                          |     |           |
|-------------|----------------------------------------------------------------------------------------------------------|-----|-----------|
| 08:45-09:00 | Meet at front of Hotel Klubben (bring bags if you intend to take the train from Skoppum Station to Oslo) | All | Atle Gran |
| 09:00-09:30 | Transfer (Bus) from Tønsberg to Kongsberg Discovery, Horten                                              | All | Atle Gran |
| 09:30-11:15 | Product "Show and Tell" at Uncrewed Platforms assembly hall                                              | All | Atle Gran |
| 11:15-11:25 | Wrap up / wait for the bus                                                                               | All | Atle Gran |
| 11:25-12:00 | Transfer from Horten to Skoppum Station (arrive Skoppum 11:45) to Tønsberg (arrive Hotel Klubben 12:00)  | All | Atle Gran |

Train - Skoppum Station to Oslo departs Skoppum at 12:18