



Global Centres of Expertise
GCE Subsea

Subsea Innovation Day

Deep-sea mining

Supported by VRI Hordaland Innovation dialog

Jon O. Hellevang, Senior Subsea Innovator

WORLD-CLASS
**SUBSEA
SOLUTIONS**

//// FROM NORWAY



HORDALAND
FYLKESKOMMUNE



The Cluster Map

PARTNERS



MEMBERS



Supported by



Cluster Relations



National Relations



International Relations



GCE Subsea

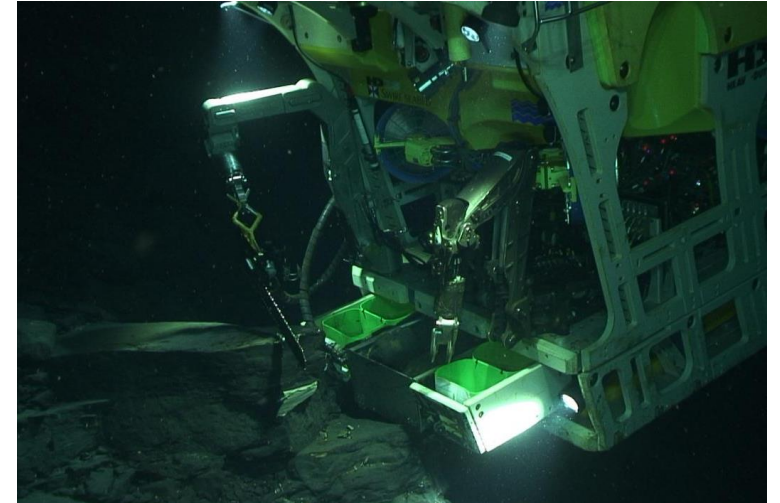
// Main goal:

// Increase the cluster's competitiveness and global market share, and take a leading position in sustainable utilisation of ocean resources.

// Subsea solutions and knowledge beyond oil and gas

// Ocean Innovation:

- Deep-sea mining
- Marine food production
- Offshore renewable energy



Programme

- // 09:00 – Welcome and introduction, Dag Rune Olsen, Rector University of Bergen
- // **Resources and potential, international and national**
- // 09:15 – John Parianos, Chief Geologist Nautilus Minerals Inc. (via video-link)
- // 09:50 – Ralph Spickermann, Chief Engineer UK Seabed Resources Limited/Lockheed Martin
- // **10:25 – Break and refreshments**
- // 10:50 – Filipa Marques, Associate Professor Department of Earth Science University of Bergen
- // **Legislative framework, licences and environmental compliance**
- // 11:25 – Harald Brekke, Senior Geologist Norwegian Petroleum Directorate, Norwegian representative in ISA
- // 12:00 – Thomas Dahlgren, Senior Researcher Uni Research
- // **12:30 – Lunch**
- // **Norwegian technology actors**
- // 13:30 – Ingrid Schjøberg, Professor and Director of NTNU Oceans
- // 14:00 – Arild Ariansen, Managing Director Scanmudring
- // **14:20 – Break and refreshments**
- // 14:50 – Morten Berntsen, Kongsberg Maritime
- // 15:10 – Public funding possibilities and Workshop, Tor Solberg Uni Research and Jon O. Hellevang GCE Subsea
- // 16:00 – End



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Welcome and introduction

Dag Rune Olsen
Rector University of Bergen

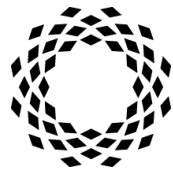
Underwater Mining Conference 2018



IMMS Sponsor of the Underwater Mining Conference
International Marine Minerals Society

// To be arranged in Bergen autumn 2018

// Local co-hosts:



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// <http://www.underwatermining.org/>



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Public funding possibilities

Restructuring of the petroleum sector (Omstillingsmidler)

- // Hordaland County is heading a call for south-west Norway – 20 million Norwegian Kroner
- // Hordaland County have an own call for Hordaland County – 5 million Norwegian Kroner

- // Projects shall target:
 - Restructuring of cornerstone companies
 - Restructuring of companies for further growth
 - Education and training of workforce
 - Joint actions related to framework conditions for the industry

- // <http://www.hordaland.no/nn-NO/naringsutvikling/omstilling/tilskot-til-omstilling-i-petroleumsindustrien-i-hordaland/>

Regional Research Fund - Vestlandet

- // 10 million Norwegian Kroner more in pre-project funding
- // Ongoing allocation of funding - Latest date for application 15 June 2016
- // Energy including Subsea one of the priority areas
- // <http://www.regionaleforskningsfond.no/prognett-vestlandet/Utlysning/RFFVEST/1254004422190>
- // New call for main projects in the autumn

Research Council of Norway

- // BIA-X new call for cross-over technology – 50 million Norwegian Kroner
- // 0.5-3 million Norwegian Kroner per project per year over 2-3 years
- // Application deadline: 25 May 2016
- // <http://www.forskningsradet.no/no/Utlysning/BIA/1254017431908/p1173268235938?progId=1253962812404&visAktive=true>

EU – Horizon 2020

- // Collaboration projects:
 - Subsea mining is not a targeted topic in 2016-2017
 - Expected that it can be an focus area in 2018-2020

- // SME Instrument – Dedicated calls targeting subsea mining
- // Eurostar – Thematically open
- // Fast Track to Innovation – Thematically open

Pre-Project Funding and Support - GCE Subsea

- // GCE Subsea offers financial and professional support to realise your project idea.
- // We have supported 10-15 technical pre-projects every year since 2008.
- // **Contact us at an early stage** to find out how we can support your project.
- // For more information:
www.gcesubsea.no/page/5662/Project_Funding



GCE Subsea - Employees



OWE HAGESÆTHER
CEO



ANNE-GRETHER SOLBAKK
Head of Finance and Communication



GUNNAR BUVIK
Business Development Manager



GISLE NONDAL
R&D Manager



TOM ERIKSEN
Senior Subsea Innovator



JON O. HELLEVANG
Senior Subsea Innovator



KJERSTI BOGE CHRISTENSEN
Event and Office Manager



Florø:
TROND STRØMGREN
Subsea Innovator

GCE Subsea - Upcoming events

- // 3 May – Breakfast Seminar OTC Houston
- // 10 May – Temamøte – Utbygging og drift av Knarr-feltet (Florø)
- // 12 May – Kva muligheter finnes for tilskot og lån til nye prosjekt? (Stord)
- // 24 May – Breakfast Seminar - Status and Predictions for the Brazilian Oil & Gas Market (Bergen)
- // 27 May – Fagdag – Ledelse av endring (Florø)
- // 30 May – Havkonferansen 2016 (personlig invitasjon) / **Sommertreff for havklyngene (Bergen)**
- // 8 June – Olje og Gass Partnerforum (Bergen)
- // 14-16 June – UTC
- // 29 August – GCE Subsea fellesstand – ONS 2016 i Stavanger
- // **22 September – Marine R&D infrastructure in Bergen (tentativ)**

Event calendar: <http://www.gcesubsea.no/page/5627/Events>



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Workshop

Workshop

- // You find the questions on the last sheet in your folder
- // Front page is a list of Yes/No individual questions – If not already done, answer these first
- // On the backside you find one single question:
- // **“What is the most important thing we can do together to position the strong Norwegian clusters within subsea mining?”**
 - First take 5 minutes to answer this question individually
 - The use the rest of the time for round table discussion
 - Make a summary of the round table discussion on the joint sheet on your table
- // We suggest that the person on the top of the table name lists summarises the round table discussion
- // We will collect and summarise both individual and joint answers after the event

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