Subsea Innovation Day
Deep-sea mining

Supported by VRI Hordaland Innovation dialog

Jon O. Hellevang, Senior Subsea Innovator

WORLD-CLASS
SUBSEA SOLUTIONS
FROM NORWAY
The Cluster Map

PARTNERS

Industry
- Aker Solutions
- Emerson
- FMC Technologies
- Gassco
- Hellenes
- OneSubsea

R&D
- CMR
- SINTEF
- WellResearch

Higher Education Institutions
- NTNU
- SINTEF

Development Contributors
- Forskningsrådet
- The Norwegian Petroleum Fund

MEMBERS

Deloitte
- DNB
- DC Subsea
- Ejecto
- Expri
- Fieli Subsea Products
- GoonTech
- Huisman
- Ideveks

Norweigan Subsea
- Norwegian Subsea
- Subsea Partner

Safe Clean
- Subsea
- Thennesen
- Tersnapk Subsea

Supported by
- WindTec
- TES
- Thommessen

Cluster Relations
- Forskningsrådet
- Siva

National Relations
- Arctic Frontiers
- Acim

International Relations
- Acim
- Fiesp
- Oce
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 Schjølberg, 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
Welcome and introduction

Dag Rune Olsen
Rector University of Bergen
Underwater Mining Conference 2018

To be arranger in Bergen autumn 2018

Local co-hosts:

http://www.underwatermining.org/
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

GUNNAR BUVIK
Business Development Manager

TOM ERIKSEN
Senior Subsea Innovator

KJERSTI BOGE CHRISTENSEN
Event and Office Manager

ANNE-GRETHE SOLBAKK
Head of Finance and Communication

GISLE NONDAL
R&D Manager

JON O. HELLEVANG
Senior Subsea Innovator

Flørø:
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](http://www.gcesubsea.no/page/5627/Events)
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