



**Project No.:** 11011 Fagdag vår og høst 2009  
**Note No.:** CMR-09-A11011-NO-04-rev01  
**Place:** University of Bergen, Department of Physics and Technology (IFT), Auditorium B, Allégaten 66  
**Meeting date:** 2009-09-25, 14:00-16:00  
**Invitees:** Public  
**Prepared by:** LEH, HZW, EK  
**Date:** 2009-08-31

## Open Workshop 2009-09-25

### Optical Sensor Technology for Detection of Oil / Gas

Measurements of minute concentrations of gas in seawater have a promising potential within application fields as diverse as oil & gas exploration, CO<sub>2</sub>-monitoring, fisheries & aquaculture. Some of the challenges new measurement systems are facing include sensitive detection of many gases simultaneously, in addition to robust and miniaturized design.

- Expert contribution. Dr. Harald Hauglin from Norwegian Metrology Service (Justervesenet) will give a talk on:
  - Precision optical gas metrology based on femtosecond lasers and detection systems
  - Precision measurement systems available and envisaged at Justervesenet. He is also interested in discussions about future collaboration and endeavours between the Michelsen Centre and Justervesenet.
- Aandera Data Instruments: Measurement technology, challenges and future desires (Jostein Hovdenes, AADI)
- Open discussion around themes as:
  - Multimode gas measurements
  - Sensitivity and stability of gas sensors

Beverages and finger food will be served.

Welcome!