

Christmas Newsletter
from FORCE
2015



Dear FORCE members

Force congratulates you all with a productive year in 2015, filled with high activities in network groups, at seminars and in projects. Our industry will always be faced with new challenges and has to adapt to changes all the time. We think that the Force organization in the coming years will play an even more important role in facilitating knowledge transfer and communication to meet these challenges.

Please find below updates from both the “Improved exploration” and the “Improved oil & gas recovery” groups within Force.

FORCE is 20 years in 2015

This year we are celebrating 20 years since Force was founded. In November 1995 Force was born with only 13 companies. As we reach the end of 2015, Force consists of 49 companies. We are celebrating Force 20 years on February 2nd at the start up of the Joining Forces seminar. Read more about this seminar at www.force.org and register if you would like to attend. We hope that at least one person from each member company will attend!



Update from Improved Oil & Gas Recovery

FORCE IOGR has two network groups, Improved EOR Competence and Mature Field – Maximize Recovery. The objective for the EOR competence network is to increase knowledge and share experiences for EOR, disseminate new technologies and ideas from the R&D institutes and service companies and to establish EOR professional network across company border.

Improve EOR Competence network is planning to have two seminars next year. The first one in March with subject polymer and a second seminar focusing on general EOR, late next year.

The network group Mature Field – Maximize Recovery has had one seminar in 2015 with the title: “Mature field opportunity screening” held on May 21st. The seminar was well visited with 81 attendants.

The network is planning two seminars in 2016. One in the spring regarding Dynamic Data. The second one is “Advances in Well Technology to Increase Recovery in Mature Fields” and will be held late summer or early autumn.

IOGR has held two Lunch and Learn sessions this year. The first was held by Tor Harald Sandve from Iris October 15th regarding OPM – Open Porous Media. The second one was a presentation from Anders Gjesdal, Statoil, “History Matching – what is sufficient HM for prediction/well planning” held at NPD office December 10th. These events have been well visited with 20 and 40 attendants.

The group’s project “Predicting EOR potential - from lab to field” is still going strong. The objective of this project is to develop a set of best practice for simulating production profile for an EOR process. The EOR process will target water based methods to increase Microscopic Sweep by surfactant or low salinity water. The best practice will cover how to apply lab data and prepare field scale simulation models that can predict incremental EOR production profile.

The project consists of two phases, with defined milestones for each phase:

Phase 1: Calendar year 2014

Phase 2: Calendar year 2015

This means that the project is now at the end of phase 2. In 2015 there have been meetings and workshops in Bergen. Six companies are participating and financing this project.

Update from Improved Exploration

The best for the Christmas holidays from the Improved Exploration Group.

In times of low oil price and less funding to seminars the Improved Exploration network groups have had a very active 2015. Our five seminars, four lunch meetings and one field trip have had an outstanding attendance. This gives inspiration to arrange interesting seminars in 2016. The Technical Committee will continue to facilitate a continued high activity level in FORCE.

All the Network groups, The structural geology group, The Geophysical Methods group and The Sedimentology and Stratigraphy group, are planning several seminars for 2016. Three seminars have a confirmed date for 2016: "Pre Stack Seismic" January 27th, "Joining Forces 2016" February 2-3rd (open for registration) and "Siliciclastic and carbonate sedimentology", April 19-20th. The Field trip in the Gironde estuary and Aquitaine coast is open for registration and will be held April 4-6th with Hugues Fenies as guide. In addition, all network groups plan several Lunch & Learn seminars on subjects such as structural development of several basins, updates in software and status in projects.

Three new projects have been launched on the FORCE website and are open for participation:

The NORSALT project is initiated by the Structural Geology group

and leading experts in the area of salt tectonics. The project will address the need for updated regional structural maps that integrate all of the new seismic data with a solid understanding of salt tectonics. Read more about this on force.org.

The QEMSCAN Project is initiated by the Sedimentology and stratigraphy group and the University of Stavanger. The overall goal of the project is to establish a comprehensive multi-well data base to characterize the basin fill geohistory, tectonic evolution, and drilling record for the exploration wells of the Norwegian Barents Sea. Read more about this also on force.org.

Cretaceous Stratigraphy on Haltenbanken. This project is open for all companies, and you are invited to participate with manpower. Contact person: Kjell Sigve Lervik, Statoil.

In addition, there are earlier proposed projects and active project groups which are all accepting late participants. See force.org for more information.

We look forward to meet you all on our seminars and field trips in 2016.

Seminars in 2015

Improved Oil and Gas Recovery 2015

May 21 sth Mature fields - Maximize recovery (81 participants)

Lunch and learn seminars:

Oct 15 th OPM – Open Porous Media (20 participants)

Dec 10 th History Matching - what is sufficient HM for prediction/well planning (40 participants)

Improved Exploration 2015

April 8-9 th Underexplored Plays (157 participants)

May 6-7 th Oslo Graben field trip (23 participants)

May 6-7 th Applied Biostratigraphy (44 participants)

May 21 st Mature field opportunity screening (81 participants)

June 9-10 th Triassic and Jurassic reservoir development in the Barents Sea (98 participants)

Dec 16 th Cores of the year 2015 (98 participants)

Lunch & Learn seminars:

March 24 th Geophysical Methods (36 participants)

April 21 st Paleozoic lacustrine shales of Northeast Greenland (38 participants)

June 9 th Geophysical Methods (22 participants)

Nov 25 th Structural development of the Northern North Sea (96 participants)

If you have any ideas for seminars or projects please do not hesitate to contact the network groups or the two technical committees!

Plans for 2016

Improved Oil and Gas Recovery plan for 2016

Feb 2-3 rd Joining Forces

Plan to organize four Lunch & Learn seminars each year.

Improved Exploration plan for 2016

Jan 27 th Pre stack seismic

Feb 2-3 rd Joining Forces

April 4-6 th Gironde field trip

April 19-20 th Siliciclastic and carbonate sedimentology

Other planned activities without set dates:

- Fault styles and fault evolution for seismic interpreters, February
- Oslo Graben field trip, spring
- Assessing the value of subsurface data, June
- Stratigraphic traps, Sept/Oct
- Cores of the year 2016, November
- The importance of diagenesis in exploration & production, December
- Use of dynamic data to improve reservoir architecture assessment
- Broadband seismic experiences
- Underexplored Plays II

In addition there are several lunch and learn seminars planned throughout the year. Keep an eye on force.org for updates.

**The FORCE secretariat wishes you
a merry Christmas
and a happy new year**



May the FORCE be with you - May you be with FORCE

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