

# Mator news

03/01

Provider of innovative consultancy services in **gas/oil/water separation technology** and **condition based maintenance technology** for the oilfield industry.

## Tracer or scanning technology - a way to get more information about your separators and columns

**Mator has entered an agreement with IFE (Institute For Energy Technology) with objective to improve the understanding of separator performance and troubleshoot and explain bottlenecks in the separation process.**



*Institute for Energy Technology (IFE) is an independent foundation established in 1948 with departments at Kjeller and in Halden. With a staff of 600, IFE is Norway's national research centre for nuclear and energy technology.*

*IFE has a world wide reputation for the use of tracer technology in reservoir operations.*

*The aim of IFE's reservoir research is to contribute to efficient petroleum exploration and costeffective and environmentally friendly improved oil recovery. R&D-based innovative passive tracer technology is used by the oil companies to obtain improved pictures of the fluid flow pattern, sweep volumes and the structure of reservoirs.*

The purpose of the agreement between IFE and MATOR is to provide a more complete explanation about the functionality of equipment for separation of gas, oil and water.

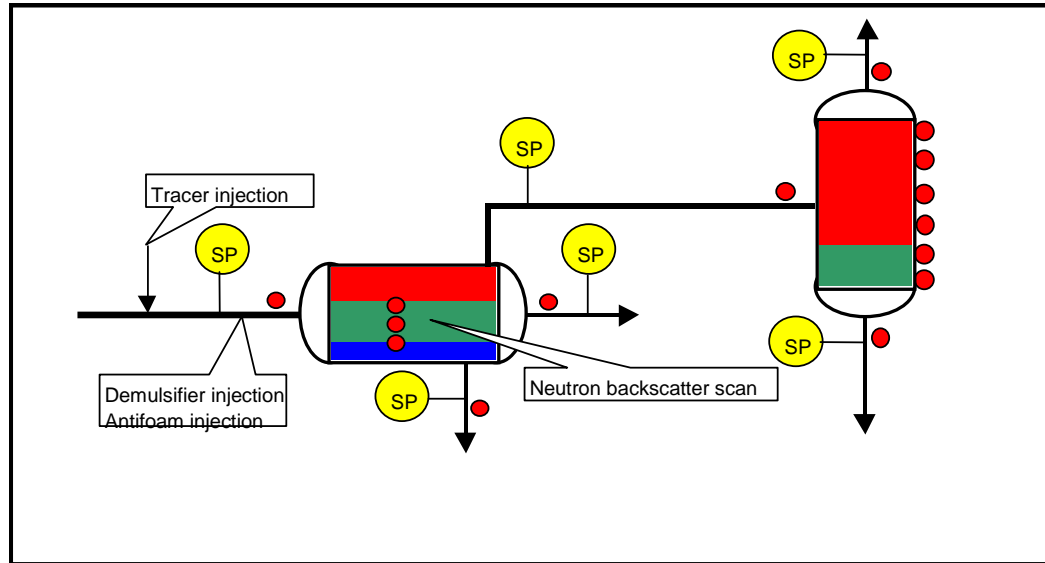


By combining MATOR's established techniques used in dispersed systems for more than 10 years in the offshore industry with IFE's tracer and scanning technology, IFE / MATOR are able to give the most valid recommendations for elimination of the separation problem.

Increased understanding of the fluids flow pattern in a 3-phase separator is always useful especially since different types of novel internals are used to improve the performance of separators.

Gas scrubber design has become a real challenge due to requirements for reduced size and increased throughput. The result is often increased liquid carry over problems. By combining the tools provided by IFE / MATOR the dispersed liquid phase in the gas may be analysed and liquid build-up or short-circuiting in the vane pack or mesh pad may be addressed.





By combining different information sources such as:

- Neutron back scatter scan for “on-line” observation of the different phases in the separator
- Injection of chemical or radioactive tracer to detect flow pattern and residence time
- Gamma spectrometry for liquid build-up
- The Mini Test Separator for verification of the fluid behaviour upstream and downstream the separator
- The water droplet size distribution in the emulsion leaving the separator
- The oil droplet size distribution in the separated water

a complete picture of the process is obtained and IFE / MATOR is able to give the operator the most valid recommendation for improved performance and increased regularity.

More information about IFE can be found at the home page: [www.ife.no](http://www.ife.no)



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