

## Scientific Computing

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### CBC Talk on Multiphase Flow - Creating Industry Tools - August 30, 2010

The talk will focus on the physics behind multiphase flow and modeling challenges, numerical challenges solving the mathematical models, and coding challenges when creating Industry Tools.

Total number of participants: 11  
 Total number of guests outside of CBC: 1  
 Number of different nationalities represented: 2  
 Total number of speakers: 1  
 Total number of talks: 1

The talk will be held by Gunnar Staff, who completed his PhD studies at Simula in 2006. He is currently working at SPTGroup, Oil and Gas R&D

#### SPTGroup:

- 200+ employees worldwide, main office at Kjeller, Lillestrøm
- Delivers scientific software for oil industry

#### OLGA (OLje og GAs):



- OLGA simulates the gas,oil,water flow (multiphase flow) in wells and transport pipelines
- Development started at the nuclear research group at IFE (Institute for Energy Research) in 1979
- <http://www.aftenposten.no/okonomi/innland/article3702755.ece>

### Multiphase Flow - Creating Industry Tools

#### Abstract:

In the oil industry, multiphase flow occurs in wells and transport lines for most gas-oil fields. The ability to compute the pressure-drop, production rates and requirements for processing equipment is vital for both planning and operating a gas-oil field. OLGA (OLje og GAs) is the leading simulation software for simulating transient phenomena in multiphase flow. In this talk we will discuss

- The physics behind multiphase flow and modeling challenges
- Numerical challenges solving the mathematical models
- Coding challenges when creating Industry Tools

<b>What</b>	▪ Talk
<b>When</b>	Aug 30, 2010 from 11:00 AM to 11:45 AM
<b>Where</b>	Bakrommet @ Simula
<b>Contact Name</b>	Hans Petter Langtangen
<b>Attendees</b>	Anna Blechingberg Arne Jørgen Arnesen Aron Wahlberg Gunnar Staff Hans Petter Langtangen Karen Støverud Kent Andre Mardal Marie Rognes Mathias Nedrebø Ola Skavhaug Tor Gillberg
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