

## Scientific Computing

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### CBC Talk on Challenges in Predicting Multi-Phase Oil-Gas-Water Flows in Long Pipelines, January 31, 2013

Dr. Gunnar Staff at SPT group will hold a talk at CBC from 12:00 regarding challenges in predicting multi-phase oil-gas-water flows in long pipelines.



Total number of participants: 13  
 Total number of guests outside of CBC: 1  
 Number of different nationalities represented: 3  
 Total number of speakers: 1  
 Total number of talks: 1

1200-1245: Dr. Gunnar Staff, SPT Group

### "Challenges in predicting multi-phase oil-gas-water flows in long pipelines"

#### Abstract:

Oil and gas are transported to the markets through long pipelines. Accurate prediction of these flows is essential for designing processing equipment and pipeline networks as well as for daily operations. Multiphase flow of hydrocarbons and water is an extremely complex physical problem. IFE, SPT, and collaborators have over three decades developed the world-leading simulation tool, OLGA, for multiphase flow in pipes. This talk will outline the challenges in the mathematical and numerical modeling of multiphase flow, especially related to the future demands of SPT's software. Many of the challenges overlap with competence and interests at Simula.

<b>What</b>	
<b>When</b>	Jan 31, 2013 from 12:00 PM to 12:45 PM
<b>Where</b>	Bakrommet @ Simula
<b>Contact Name</b>	Hans Petter Langtangen
<b>Attendees</b>	Andre Massing Aslak Tveito Gabriel Balaban Glenn Lines Gunnar Staff Hans Petter langtangen Joakim Sundnes Johan Hake Karen Støverud Kent Andre Mardal Marie Rognes Martin Alnæs Øyvind Evju
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