

## Scientific Computing

- Publications
- Center for Biomedical Computing
- Projects
- Available Master's topics
- Intranet
- People



### CBC Talk on a Framework for Multi-Reservoir Production Optimization - October 19, 2011

You are hereby invited to the first talk organized by the Comp-Geo PhD-students. The first talker is Professor Arne Bang Huseby from Department of Mathematics at UiO.

Total number of participants: 9  
 Total number of guests outside of CBC: 2  
 Number of different nationalities represented: 6  
 Total number of speakers: 1  
 Total number of talks: 1

#### Abstract

When a large oil or gas field is produced, several reservoirs often share the same processing facility. This facility is typically capable of processing only a limited amount of commodities per unit of time. In order to satisfy these processing limitations, the production needs to be choked. We consider the problem of optimizing production strategies with respect to various types of objective functions. A general framework for handling this problem is developed. The solution to the optimization problem depends on certain key properties, e.g., convexity or concavity, of the objective function and of the potential production rate functions. Using these properties several important special cases can be solved.

<b>What</b>	▪ Talk
<b>When</b>	Oct 19, 2011 from 02:00 PM to 03:00 PM
<b>Where</b>	Underhuset @ Simula
<b>Contact Name</b>	Jonathan Feinberg
<b>Attendees</b>	Arne Huseby Aymen Said Jonathan Feinberg Maria Chiara Bianchi Omar al-Khayat Rainer Nerlich Sabine Hippchen Stuart Clark Tor Gillberg
<b>Add event to calendar</b>	 vCal  iCal