



## **GEOTHERMAL RESERVOIR RESEARCH IN ICELAND**

*What works? What doesn't?*

**ORKUGARÐUR, GRENSÁSVEGI 9, 9:00-16:00, MARCH 4<sup>TH</sup> 2010**

The goal of the interactive workshop is to bring together engineers and scientists involved in geothermal reservoir studies in Iceland to exchange ideas and increase understanding on geothermal resources. Evaluate ongoing research: What works? What doesn't? What has been accomplished over the past years?

Planned outcomes of the workshop are to give an overview of what is going on in Geothermal Reservoir Science in Iceland. The workshop should also identify areas of future interest for the enhancement of geothermal development through local and international collaboration opportunities like IPGT and others.

A record of the lectures will be made available on the internet.

Please register for the event by e-mailing [georg@orkugardur.is](mailto:georg@orkugardur.is)

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## ----- WORKSHOP –AGENDA -----

**Jónas Ketilsson, will chair the meeting**

08:30 - 09:00 *Coffee and refreshments*

09:00 - 09:15 *Opening address by the Chair*

09:15 - 10:15 **Session I: Conceptual Modeling**

**Task 1: Heat transfer from magma intrusions under geothermal systems**

*Magnús Tumi Guðmundsson, University of Iceland*

**Task 2: Boundary conditions and roots of the geothermal systems**

*Gunnar Gunnarsson, Reykjavik Energy*

**Task 3: Reservoir parameters**

*Hjalti Fransson, Iceland GeoSurvey*

**Task 4: How to estimate production capacity of green fields**

*Héðinn Björnsson, Iceland GeoSurvey*

10:15 – 11:15 **Discussion in groups lead by group leaders**

**Group leaders:** *Guðni Axelsson, Benedikt Steingrímsson, Guðni A. Jóhannesson, Guðrún A. Sævarsdóttir, Sæunn Halldórsdóttir, Stefán Arnórsson, Bryndís Brandsdóttir, Helga Túlinius*

11:15 – 12:15 **Session II: Numerical Modeling**

**Task 5: Intrinsic or structural anisotropy**

*Snorri Páll Kjaran, Vatnaskil Consulting Engineers*

**Task 6: Coupling reactive transport to reservoir modeling**

*Edda S. P. Aradóttir, HI/ Reykjavik Energy*

**Task 7: Relative permeabilities for two phase flow in geothermal reservoirs**

*María S. Guðjónsdóttir, HR/HÍ*

**Task 8: Mathematical modeling of energy flow in a geothermal reservoir**

*Halldór Pálsson, University of Iceland*

12:15 - 13:00 **Lunch**

13:00 - 14:00 **Discussion on session II in groups lead by group leaders**

**Group leaders:** *Guðni Axelsson, Benedikt Steingrímsson, Guðni A. Jóhannesson, Guðrún A. Sævarsdóttir, Sæunn Halldórsdóttir, Stefán Arnórsson, Bryndís Brandsdóttir, Helga Túlinius*

14:00-14:15 **Coffee break**

14:15 – 15:10 **Panel discussions - Session I, lead by Guðni Axelsson.**

*Guðni will sum up the main results of the group work and steer a panel discussion on the topics on session I with group leaders*

15:10 – 16:00 **Panel discussions - Session II, lead by Benedikt Steingrímsson.**

*Benedikt will sum up the main results of the group work and steer a panel discussion on the topics of session II with group leaders*