Program

Monday 22 August

18.00 Course opening in Askja, University of Iceland. Overview of course and field trips. Light dinner at Restaurant Dill, Nordic House.

Tuesday 23 August - Field trip W Iceland

08.15	Bus from Askja, University of Iceland
9.00	Bus from Hotel Cabin
9.00-18.00	Field trip on W-Iceland looking at eroded geothermal systems. We will take a bus
	from Reykjavik to Thingvellir, crossing over to Húsafell, and Hvalfjordur where we
	will look at fossil volcanic and geothermal systems. Return to Hotel Hengill
	(Nesjavellir) in the evening. Dinner at Hotel Hengill and refreshments during the day.
	Guide: Sigurdur Gardar Kristinsson (Iceland Geosurvey).
~19.30	Dinner at Hotel Hengill

Wednesday 24. August - course lectures and poster session at Nesjavellir

- 07.00-09.00 Breakfast
- 09.00-09.45 Geology and geothermal exploration Ásgrímur Gudmundsson
- 09.45-10.30 Geothermal geochemistry and exploration Andri Stefánsson
- 10.30-11.00 Coffee and posters
- 11.00-11.45 Geophysical methods for geothermal exploration Knútur Árnason
- 11.45-12.30 Comparison of seafloor "black smokers" hydrothermal systems to geothermal systems in Iceland Robert Zierenberg
- 12.30-14.00 Lunch
- 14.00-14.45 Mass transfer and transport controls on mineralogical alteration in basalt-hosted geothermal systems Phil Neuhoff
- 14.45-15.30 Geothermal reservoir modeling Gunnar Gunnarsson
- 15.30-16.15 Geothermal biotechnology Jakob K. Kristjánsson
- 16.30-19.00 Posters and coffee (group I)
- 19.30 Dinner at Hotel Hengill

Thursday 25. August - course lectures and poster session at Nesjavellir

- 07.00-09.00 Breakfast
- 09.00-09.45 High -temperature geothermal alteration Anette K. Mortensen
- 09.45-10.30 The physical hydrology and heat transport in geothermal systems from geysirs to Engineered Geothermal Systems Thomas Driesner
- 10.30-11.00 Coffee and posters
- 11.00-11.45 Habitat Generation in Hydrothermal Systems Everett Shock
- 11.45-12.30 Speciation and transport of metals in geological fluids and formation of hydrothermalmagmatic ore deposits – Gleb Pokrovski
- 12.30-14.00 Lunch
- 14.00-14.45 Ground Source Heat Pumps José Acuna
- 14.45-15.30 The Carbfix project Sigurdur R. Gíslason
- 16.00-19.00 Posters and coffee (group II)
- 19.30Dinner at Hotel Hengill

Friday 26. August – Field II trip at Hengill and Hveragerdi SW Iceland

- 07.00-09.00 Breakfast
- 09.00-18.00 Field trip II looking at surface geothermal activity and geothermal power plants in the Hengill and Hveragerdi area, SW Iceland. We will look at surface geothermal fluids, alteration and geothermal biology in Ölkelduháls area as well as look at geothermal wells and energy production. Dinner at Hotel Hengill and refreshments during the

~19.30	day. Guides: Einar Gunnlaugsson (Reykjavík Energy) and Gudmunur Oli Hreggvidsson (University of Iceland and Matis) Dinner at Hotel Hengill
Saturday 27.	August – lectures and discussion groups at Nesjavellir on "Roots of geothermal
	systems" – in collaboration with GEORG (Geothermal Research group)
07.00-09.00	Breakfast
09.00-9.45	Geothermal systems: Deep root physics - Problem statement and state of the art –
	Jónas Elíasson
9.45-11.00	Conceptualizing stress and permeability fields in deep roots of geothermal systems – Grímur Björnsson & Stephen Hickman
11.00-11.20	Coffee
11.20-12.10	Enhanced Geothermal Energy Systems - ongoing case studies in middle Europe –
	Ernst Huenges
12.10-13.30	Lunch break
13.30-14.30	To be announced - Thomas Driesner
14.00-14.30	The Iceland Deep Drilling Project (IDDP) Drilling into Supercritical Geothermal
	Systems (SGS) - Guðmudur Ómar Friðleifsson
14.30-15.00	Deep Root Chemistry - Andri Stefánsson
15.00-17.00	Group Discussion and coffee
19.30-	Dinner at Hotel Hengill

Sunday 28. August Field at Reykjanes

07.00-09.00	Breakfast
09.00-18.00	Field trip III looking at surface geothermal activity and saline geothermal fluids at
	Reykjanes Peninsula, SW Iceland. The trip will end in the Blue Lagoon. Dinner at
	Hotel Hengill and refreshments during the day. Guides: Anette K. Mortensen (Iceland
	Geosurvey) and Gudmundur Ómar Fridleifsson (HS Orka)
~19.30-	Dinner at Hotel Hengill

Monday 29 August Field trip to Southern Lowlands and Landmannalaugar

07.00-09.00 Breakfast

- 09.00-18.00 Field trip IV. We will drive from Nesjavellir to the Southern Lowlands; look at lowtemperature geothermal activity as well as some historical places. In the afternoon we will drive into the South Highlands to Landmannalaugar, where we will do some short hikes, have dinner and stay in the mountain-hut there overnight. Landmannalaugar are a part of the Torfajokull caldera, characterised by rhyolitic rocks and geothermal activity. At Landmannalaugar there is a natural geothermal bath. Guides: Andri Stefánsson and Júlía K. Björke
- ca 19.00 Dinner in Landmannalaugar

Tuesday 30 August Field trip Landmannalaugar

07.00-09.00 Breakfast

09.00-18.00 We plan to leave Landmannalaugar before lunch, drive mountain roads east and south of Myrdalsjokull and Eyjafjallajokull on the south coast and return to Reykjavík in the evening.