

Basics of Geothermal Science and Technology

Date: Thursday 28 November 2019

Location: Owen G. Glenn Building, Auckland

Presenters: Dr Bridget Lynne and Dr Eylem Kaya.

Time: 9:00am – 4:00pm

Course requirements: Participants must bring with them their own laptop. Additional materials will be supplied at the workshop. Morning tea, lunch and afternoon tea will be provided.

Outline:

This one day course aims to provide a basic understanding of geothermal science, technology and environmental issues.

It is suitable for participants who deal with planning, conservation or business activities associated with geothermal activity and the geothermal industry

Timings	Sessions
9.00 - 10.40am	<p><i>Lecture talk: The Role of a Geoscientist in Geothermal Development</i> – Bridget Lynne</p> <ul style="list-style-type: none">• Overview of a geothermal system• Step-wise approach to geothermal development• Geothermal science: An inter-disciplinary approach (roles of a geologist, geochemist and geophysicist)
10.40 - 11.00am	Break: Morning Tea
11.00 - 12.00pm	<p><i>Lecture talk: Environmental Impacts of Development</i> – Bridget Lynne</p> <ul style="list-style-type: none">• Environmental impacts of geothermal development• Natural versus man-made impacts (case studies)• Understanding the system and minimising the impact
12.00 - 1.00pm	Lunch Break
1.00 - 2.30pm	<p><i>Lecture talk: Geothermal Energy Development</i> - Eylem Kaya</p> <ul style="list-style-type: none">• Geothermal Energy Applications• Types of geothermal systems• Reinjection in Geothermal Reservoirs
2.30 – 2.45pm	Break: Afternoon Tea
2.45 – 4.00pm	<p><i>Lecture talk: Geothermal Power Generation</i> - Eylem Kaya</p>

	<ul style="list-style-type: none">• Steam Field Equipment• Geothermal Power Stations
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