FT06 - Active and Extinct Epithermal Environments of the North Island, New Zealand

(Provisional, subject to booking confirmation)

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CODES

Date: October 2-7, 2015 Location: Departing from and returning to Auckland, New Zealand Leaders: Stuart Simmons, Tony Christie Attendee Maximum: 35

This excursion provides an overview of the volcanic-tectonic setting, hydrology, fluid chemistry, alteration and mineralization of sub-aerial hydrothermal systems and their epithermal ore-forming environments. Unique is the opportunity to observe precious-metal transport and deposition in the Champagne Pool, and to see the interplay of magmatic and hydrothermal processes. The itinerary includes visits to hot spring areas and steamfields in the Taupo Volcanic Zone, Tongariro National Park, and epithermal Au-Ag deposits in the Coromandel peninsula.

The first two days include stops at the Karangahake gorge and Waihi in the Coromandel goldfields to view the world class Martha Hill deposit and to gain a 3D understanding of mineralization and alteration. The next two days are based out of Rotorua, with visits to the Orakeikorako, Waimangu, and Waiotapu thermal areas, the Broadlands-Ohaaki and Wairakei steam-fields, and the Ohakuri epithermal Au-Ag prospect. The last two days focus on the geology and hydrothermal activity of Taupo and Tongariro volcanic centers, providing spectacular views of a large rhyolitic caldera and tall andesitic stratacones.

Stuart F. Simmons Hot Solutions Ltd, Auckland, New Zealand

Tony Christie GNS Science, Lower Hutt, New Zealand

Friday, October 2, 2015 - Auckland Meeting Point

 7:30am: Central Business District Auckland: Copthorne Hotel Auckland Harbour City 196-200 Quay Street, Auckland 1010, New Zealand www.millenniumhotels.co.nz/copthorneharbourcity, +64 93770349
 Stop 1: Kawakawa Bay-Firth of Thames: Exposures of meta-sedimentary basement units Stop 2: Karangahake gorge

Overnight: Waihi

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Saturday, October 3, 2015

8:30am: Depart Stop 1: Martha Mine, Waihi Stop 2: Rotorua

Overnight: Rotorua

Sunday, October 4, 2015

7:30am: Depart Stop 1: Orakeikorako thermal area Stop 2: Waiotapu thermal area

Overnight: Rotorua

Monday, October 5, 2015

- 8:00am: Depart
- Stop 1: Wairakei Steamfield
- Stop 2: Craters of the Moon
- Stop 3: Huka Falls
- Stop 4: Broadlands-Ohaaki
- Stop 5: Waimangu thermal area

Overnight: Rotorua



Tuesday, October 6, 2015

8:00am: Depart Stop 1: Ohakuri Dam Stop 2: Taupo Volcano Stop 3: Tongariro National Park

Overnight: Tongariro National Park

Wednesday, October 7, 2015

8:00am: Depart Stop 1: Silica Rapids
12:00pm: Depart
6:00pm: Arrive to Auckland and drop off at Copthorne Hotel

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