Welcome

Welcome to Gold17 that will take place in Rotorua, New Zealand, from 21st to 23rd February 2017. The meeting continues the regular series of gold events that commenced with Gold’82 in Zimbabwe and was followed by meetings in southern Africa, Australia and the Americas.

This is the first time the event has been held in New Zealand, and is being organized by local gold experts and the team that ran the most recent Gold’14 event in Kalgoorlie, Western Australia. Symposium volume at www.sjsresource.com.au/geoscientist-symposia-past-events.html.

Gold17 will focus on developments in gold mineral systems, exploration technologies, opportunities and Pacific margin geology and mineralisation.

There will be a technical programme, special sessions, workshops, pre- and post-symposium excursions and social functions that will provide a comprehensive programme and networking opportunities.

The Symposium is organised with support from professionals in the universities, mineral and geothermal industries, and their service providers. The symposium committee will be working with relevant New Zealand and Australian societies and organisations.
Our Symposia typically attract more than 200 delegates. Delegates vary from junior staff, to consultants, managers, exploration and research personnel and directors of stock exchange-listed mining companies.

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Symposium Fees
Members: NZ$989.00 • Non-members: NZ$1,208.00 • Discount: NZ$575.00
(Members = members of any sponsor organisation)

PLEASE REGISTER ON-LINE
Visit www.rotoruagold17.co.nz to register online for all courses, field trips and the symposium.

Pay by credit card or electronic funds transfer. One registration per person. We accept payments in Australian or New Zealand dollars and we reserve the right to vary the Australian dollar price with currency variations.

Please remember to give us your direct email address (in addition to accounts and personal assistant email addresses)
Alternatively, you can pay directly by cheque (print online registration and post cheque to PO Box 1093, Canning Bridge 6153 Western Australia), by credit card online or by requesting an invoice to your employer (please supply a purchase order number).

REFUND POLICY: Full refund less $40 or 10% of the registration fee – whichever is larger – will be allowed 30 days prior to the event. If refund is requested 7 days before the event, only 50% of the total registration fee will be returned. No refund will be accommodated subsequently.

FOR FURTHER INFORMATION:
For further information on this event or to discuss sponsorship opportunities contact rotorua2017@geosymposia.com.au
Rotorua, New Zealand

Rotorua (www.rotoruanz.com) has a population of 68,000 and is an iconic tourism destination attracting 2.9 million domestic and international visitors annually. It is a thriving city with an economy focused around tourism, retailing, forestry and manufacturing.

Rotorua is often referred to as the ‘Lake District’ because of the number of fishable lakes within its boundaries. It was historically New Zealand’s first tourism destination, because of thermal features such as the Pink and White Terraces (destroyed in the 1886 Tarawera eruption). Rotorua continues as the centre for geothermal attractions and visitors are immediately aware of the geothermal environment because of the characteristic scent of sulphur in the air.

Several other attractions are nearby. Lake Taupo and the coastal city of Tauranga are each only an hour drive away, and the classic andesite stratovolcanos of Mt Ruapehu and Mt Nguaruhoe are less than two hours drive from Rotorua.

Apart from the abundance of local tourism attractions, Rotorua offers visitors a range of accommodation options, a vibrant retail district of more than 250 shops and more than 50 restaurants including European, Italian, Thai, Chinese, Japanese, Korean, Indian, and Mexican cuisine options.

Rotorua is the heartland of New Zealand Maori culture, with Maori making up approximately 35% of the population in the Rotorua district. Delegates will have the opportunity to experience the warm spirit of Te Maori with a traditional Maori powhiri (welcome), concert and hangi (food cooked in an earth oven).
Symposium Venue – Distinction Hotel

Distinction Rotorua is hosting the Gold 17 conference in 2017. Distinction Rotorua Hotel offers 4-star hotel rooms for most budgets. From a simple superior room to an elegant suite, there are a range of refurbished accommodation options to suit your needs. Distinction Rotorua is located just minutes from the city centre and adjacent to the world renowned Whakarewarewa Forest. The hotel offers a range of facilities for guests including FREE unlimited WiFi, outdoor heated swimming pool, Jacuzzi and Spa.

A Full Buffet Breakfast is included in the accommodation package based on single share occupancy. Rates specific for the event dates are as follow:

- **Standard Rooms:** $149.00 incl. GST per room per night based on single share occupancy
- **Deluxe Rooms:** $159.00 incl. GST per room per night based on single share occupancy
- **Junior Suites:** $195.00 incl. GST per suite per night based on single share occupancy
- **Executive Suites:** $205.00 incl. GST per suite per night based on single share occupancy
- **Bedroom Presidential Suite:** $450.00 incl. GST per night

To avail the discounted rates, you can book directly with the hotel by clicking on this link: [www.distinctionhotelsrotorua.co.nz/gold17](http://www.distinctionhotelsrotorua.co.nz/gold17)
Call for Papers and Posters
If you wish to submit a paper or poster, please send the name of the senior author, a working title and a paragraph explaining what the paper/poster is about (no need to be scientific or specific) to rotorua2017@geosymposia.com.au as soon as possible. There is no limit to the number of posters a person may submit.

Instructions to Speakers
All talks and oral sessions will have a computer projector running PowerPoint. There will be no other projection facilities. Your talk should fairly acknowledge the work of others and supporting organisations. At the same time we discourage (the recent trend towards) the excessive use of partner naming, company or product promotion and colleague referencing.

Posters
- Gold17@Rotorua will include a significant poster component and poster sessions. We especially encourage students and junior company staff to present a poster. There is no limit to the number of posters nor specified submission date but extended abstracts are required before 1 December 2016.
- All posters will be accompanied by a five minute oral presentation at the poster.
- If possible include a small photo of the author on the poster display.
- Posters are for the display of scientific results and should not be used for the promotion of businesses, research groups, government departments, companies or products, that is the role of a Trade Exhibit.
- Please contact the organisers to submit a poster. Please submit a title and author name(s) as soon as possible. All posters/speakers (except keynote) are required to register and pay to attend meetings.
- Poster boards are 1800cm x 1200cm.

Please Note: All posters/speakers are required to register and pay to attend this meeting.

Expressions of Interest
Please contact us if you are interested in sponsorship or exhibiting: rotorua2017@geosymposia.com.au

AIG Sponsorship for Young Presenters
The AIG has generously agreed to sponsor to NZ$500 (incl. GST) the registration of the first ten young geologists giving a talk and/or poster. The young geologist must by less than 30 years of age on 21 February 2017, and may be from any country globally. They may be a student, employed or unemployed. They should be a member of the AIG or provide a completed AIG membership application (students free).

Applicants should send an email to training@geosymposia.com.au with their symposium volume-compliant extended abstract and a specific request for this young presenter allocation.

There is no deadline but the first ten compliant applications received will be awarded. Applicants should be the senior or only author, and they will give either a symposium talk or poster including a 5 minute oral "poster" talk.
### About Geoscientists Symposia

Geoscientists Symposia works with SJS Resource Management Pty Ltd and The Australian Institute of Geoscientists (AIG) to provide training courses and symposia across a wide range of themes. Geoscientists Symposia also organize short courses, field trips, lectures and mine visits as well as regular networking and social events.


### Short Courses and Field Trips – Timetable

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<td>Southern South Island Gold</td>
<td>Field trip</td>
<td>Dave Craw</td>
<td>Sunday 12th Feb to Saturday 18th Feb</td>
<td>Pre-symposium, six days</td>
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<td>Epithermal Mineralisation</td>
<td>Short course Rotorua</td>
<td>David Cooke and Stuart Simmons</td>
<td>Sunday 19th &amp; Monday 20th Feb</td>
<td>Two days</td>
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<td>Gold17@Rotorua SYMPOSIUM Rotorua</td>
<td>SYMPOSIUM Rotorua</td>
<td></td>
<td>Tuesday 21st to Thursday 23rd Feb</td>
<td>THREE DAYS</td>
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<td>North Island, Taupo Geothermal and Epithermal incl. Waihi mine</td>
<td>Field trip ex-Rotorua</td>
<td>Stuart Simmons and Tony Christie</td>
<td>Friday 24th to Monday 27th Feb</td>
<td>Post-symposium, four days, excursion</td>
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<td>Structure, Gold, Drill Core and Modern Digital Technologies</td>
<td>Short course Auckland</td>
<td>Sian Bright and Julian Vearncombe</td>
<td>Tuesday 28th Feb</td>
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### www.rotoruagold17.co.nz

### Sponsorship

Sponsorship and trade booths are available. Sponsors are given a choice of sponsored events on a first come first served basis on receipt of payment. Sponsorship provides the company or organisation with its logo prominent on advertising and promotional materials, the symposium (digital) volume and exposure and recognition.

Please talk to us about sponsoring individual events: [rotoru2017@geosymposia.com.au](mailto:rotoru2017@geosymposia.com.au)

### Join AIG and Save

We encourage non-members of the Australian Institute of Geoscientists (AIG) to join and take advantage of discounts for members. A photo-scan copy of a recent AIG application accompanying your registration form is enough to obtain AIG discounts. Visit [www.aig.org.au](http://www.aig.org.au)

The cost of AIG membership (excluding GST) is:

- Student – A$0
- Graduate – A$122
- Associate – A$142
- Ordinary Membership – A$170
- Fellow Membership – A$170
- Retired membership – A$105

FOR FURTHER INFORMATION:
For further information on this event or to discuss sponsorship opportunities contact [rotoru2017@geosymposia.com.au](mailto:rotoru2017@geosymposia.com.au)
FIELD TRIP

Southern South Island Gold Fields
Sunday 12th to Saturday 18th February

Led by Dave Craw this field trip to the Otago and Southland goldfields, visits historic sites, active mines and prospects. The trip will visit placer and orogenic gold deposits. The provisional itinerary is below. This geological trip assumes a normal level of field fitness. Participants will need to be able to walk for two or more hours over uneven terrain.

Sunday 12th February:
Fly to Dunedin (delegates to make their own flight bookings at their own expense). Overnight in Dunedin (road transport in SI and accommodation included).

Monday 13th February:
Depart early for Lawrence, placer deposit, site of Otago gold rush initiation in 1861. Drive via Raes Junction to Southland, visit Waikaia active placer mine. Drive to Queenstown for night.

Tuesday 14th February:
Drive to Glenorchy, visit historic scheelite mining area; involves 1-2 hours walking. Afternoon, drive to Skippers Canyon, orogenic and placer gold mining area. Return to Queenstown accommodation.

Wednesday 15th February:
Drive to Rise & Shine historic orogenic and placer mining area, examine prospectivity with respect to abundant recent drilling. Drive over Dunstan Range (weather and road permitting), visit Conroys Gully historic placer and orogenic mining area. Night in Alexandra.

Thursday 16th February:
Drive via Ophir historic placer and orogenic mining area to St Bathans historic placer mine. Visit Ōtūrehua orogenic vein system, mined historically and extensively prospected recently. Night in Naseby.

Friday 17th February:
Drive via Hyde to Oceana Gold’s Macraes mine. Drive via Golden Bar road to Golden Bar pit for visit of old open cut. Overnight accommodation in Dunedin included.

Saturday 18th February:
Flights to Rotorua at delegates own expense.

For details and registration visit www.rotoruagold17.co.nz

Dave Craw

Dave is Professor of economic geology at University of Otago in Dunedin, New Zealand. He has worked on gold and tectonically driven hydrothermal fluid flow in ancient and modern mountain belts around the world for the past 30 years. He has particular experience with orogenic and placer gold deposits of the South Island of New Zealand, including the Otago Schist and the world-class Macraes orogenic deposit.

Cost
Cost depends on numbers (but less than NZ$3,220.00) Please contact us by email to confirm arrangements.

FOR FURTHER INFORMATION:
For further information on this event or to discuss sponsorship opportunities contact rotorua2017@geosymposia.com.au
**David Cooke**

David, his students and postdoctoral researchers, have been researching porphyry copper-gold-molybdenum and epithermal gold-silver-copper deposits of the circum-Pacific region for almost 30 years. They have investigated the geodynamic environments of mineralisation, intrusive history and the magmatic-hydrothermal transition, fluid compositions, ore-forming processes and genetic associations between porphyry and epithermal deposits. David and his team have been studying geochemical halos to porphyry and epithermal deposits, developing new exploration tools for the minerals industry. David is an associate editor of Economic Geology, Director of the TMVC Industrial Transformation Research Hub, and is Deputy Director of CODES, the Australian Research Council's Centre of Excellence in Ore Deposits. David was the Society of Economic Geologists Thayer Lindsley lecturer in 2005 and was awarded the Society of Economic Geologists' Silver Medal in 2013.

**Stuart Simmons**

Stuart has been investigating epithermal deposits, geothermal resources, and hydrothermal processes for over 30 years. Much of his work is based on studies of hydrothermal activity and precious metal transport-deposition in modern epithermal environments of the Taupo Volcanic Zone, but he has also worked on a number of projects around the Pacific rim both as a technical consultant and as researcher. His published work appears in leading journals including Economic Geology, Geology, Geothermics, Nature and Science. Stuart is currently a research professor at the Energy and Geoscience Institute at the University of Utah, where he investigates geothermal resources in the western USA. He was the Society of Economic Geologists Regional VP Lecturer in 2008 and was recipient of the Society of Economic Geologists Silver Medal in 2014.

**FOR FURTHER INFORMATION:**

For further information on this event or to discuss sponsorship opportunities contact rotorua2017@geosymposia.com.au
FIELD TRIP

North Island Geothermal and Epithermal
Friday 24th and Monday 27th February – ex-Rotorua

Led by Stuart Simmons and Tony Christie this four day excursion runs daily from Rotorua, returning each evening to Rotorua.

The goal of this excursion is to provide an overview of the volcanic-tectonic setting, hydrology, fluid chemistry, alteration and mineralization of sub-aerial hydrothermal systems and their energy and mineral resources. The itinerary includes visits to hydrothermal systems in the Taupo Volcanic Zone, Tongariro National Park, and epithermal Au-Ag deposits in the Coromandel peninsula (Hauraki Goldfield).

The provisional itinerary for the pre-symposia field trip is:

**Friday 24th February:**
- Evening 1 to 1.5 hour lecture(s)

**Saturday 25th February:**
- Field visits to Orakeikorako, Te Kopia, Waikite and Waiotapu thermal/geothermal areas

**Sunday 26th February:**
- Waihi and Karangahake epithermal gold

**Monday 27th February:**
- Ohakuri epithermal Au-Ag prospect and Wairakei and Waimangu geothermal/thermal areas

**Tuesday 28th February:**
- National Park, to drive up Ruapehu to view andesite lavas and pyroclastics (views of Taupo volcano on the way)

Delegates to make their own accommodation arrangements in Rotorua. Transport to leave daily from Distinction Hotel.

For details and registration visit [www.rotoruagold17.co.nz](http://www.rotoruagold17.co.nz)

**COST**
- Members: NZ$1,500.00
- Non-members: NZ$1,800.00
- Discount: NZ$500.00

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**Stuart Simmons**

Stuart has been investigating epithermal deposits, geothermal resources, and hydrothermal processes for over 30 years. Much of his work is based on studies of hydrothermal activity and precious metal transport-deposition in modern epithermal environments of the Taupo Volcanic Zone, but he has also worked on a number of projects around the Pacific rim both as a technical consultant and as researcher. His published work appears in leading journals including Economic Geology, Geology, Geothermics, Nature and Science. Stuart is currently a research professor at the Energy and Geoscience Institute at the University of Utah, where he investigates geothermal resources in the western USA. He was the Society of Economic Geologists Regional VP Lecturer in 2008 and was recipient of the Society of Economic Geologists Silver Medal in 2014.

**Tony Christie**

Tony is a Senior Minerals Geologist with GNS Science. Following his university education, Tony worked four years in mineral exploration with BP exploring for gold, molybdenum and tungsten deposits in New Zealand. In 1985, Tony joined New Zealand Geological Survey, which is now GNS Science and has carried out research on gold, iron and clay deposits, regional geological mapping, geochemical mapping, and mineral resource assessments.
For Further Information:
For further information on this event or to discuss sponsorship opportunities contact rotorua2017@geosymposia.com.au

**Gold17@Rotorua**

**Sian Bright**
Sian holds a Masters in Structural Geology with Geophysics from the University of Leeds and a BSc (Hons) in Geology from University College London. Sian joined SJS Resource Management in 2010 and has since consulted on multiple commodities in Australia, Chile and Mongolia including gold, silver, uranium and base metals. She has experience in planning and supervising geochemical sampling programmes and exploration drill programmes including; RC and diamond drill logging and sampling, soil, stream and rock sampling, and POW and EIS applications. Other work includes geological and open pit mapping, project appraisal and due diligence. Software proficiency includes ArcGIS, Micromine and Leapfrog.

**Julian Vearncombe**
Julian is an economic geologist with 30 years experience working across the value chain of the mineral resource industry, and on all continents except Antarctica. His energetic and varied career includes academia, technology development, consultancy, management and as a Director of publicly-listed companies. Julian has expertise in precious, base and strategic metals, with experience in executive and strategic management. He has been a member of teams that identified major gold, base metal and specialty metal Resources. A significant focus of his working career has been the application of effective structural geology to mineral exploration and mining. He has co-authored more than seventy peer-review publications. He is an editor of the journal Applied Earth Sciences, and was the 2016 AusIMM and AIG visiting Distinguished Lecturer.

**SHORT COURSE**
**Structure, Gold, Drill Core and Modern Digital Technologies**
**Tuesday 28th February – Auckland – Venue to be confirmed**

Presented by Sian Bright and Julian Vearncombe, SJS Resource Management

In the mineral exploration industry, diamond core drilling provides the opportunity to collect structural data relating to a target or deposit. Understanding the structural context of a project enables further exploration, ore envelope and shoot definition, and geological control on parameters for grade interpolation.

This short course summarises the technologies available in exploration and mining and describes techniques of core orientation, marking-up, structure measurement and the visual representation of structural data. We provide a critical comparison of tools and methods available at each stage of the process.


For details and registration visit www.rotoruagold17.co.nz

**COST**
Members: NZ$150.00
Non-members: NZ$200.00
Discount: NZ$20.00

FOR FURTHER INFORMATION:
For further information on this event or to discuss sponsorship opportunities contact rotorua2017@geosymposia.com.au