



SEG 2017
Beijing, China



Ore Deposits of Asia: China and Beyond

September 17-20, 2017 ★ Beijing, China



SEG 2017 Field Trip Itinerary - **Preliminary**

FT10 - Porphyry and Epithermal Systems of the Sunda-Banda Arc, Indonesia

Date: September 21-27, 2017

Location: Departing from and returning to *Bali, Indonesia*

Leaders: Adi Maryono, Lejun Zhang, Rachel Harrison, Iryanto Rompo

Flights/Airfare: Not included in cost of trip

Accommodation, Food, Local Ground Transport: Included



This field trip will introduce participants to the geology and mineralization that characterizes the Sunda-Banda arc. It will include site visits to giant porphyry Cu-Au deposits (Batu Hijau, Tumpangpitu), modern hydrothermal systems on an active volcano (Mt Ijen), and exploration projects on Lombok and Sumbawa. In addition to site visits, participants will have the opportunity to spend one day learning and applying the Anaconda mapping method inside the Batu Hijau open pit.

This field excursion commences in Lombok, with a visit to costal exposures of porphyry mineralization and diatreme breccias at Pangulu beach. The second day involves a day trip via seaplane to Batu Hijau porphyry Cu-Au mine (574 t Au and 7.22 Mt Cu) where participants have the opportunity to review porphyry mineralization in drillcore from Batu Hijau, as well as regional deposits including Elang (1,042.82 t Au and 8.16 Mt Cu). The remaining time in Batu Hijau open pit will focus on training participants in the use of Anaconda mapping techniques.

Back on the island of Lombok, participants will visit field exposures of a barren lithocap, ISE, HSE and porphyry mineralization with a focus on exploration techniques to vector towards mineralization in the lithocap environment. Drillcore will be observed from Brambang and Selodong porphyry prospects, as well as Pelangan/Mencanggih HSE prospects to link exploration drilling and targeting to field observations.

From Lombok, we travel to East Java to hike at midnight to the active volcano and largest crater lake on Earth at Mt Ijen in East Java. Participants will descend from the crater rim to observe the famous "blue fire" associated with active fumaroles, and sulfur deposits - mined by locals, the steaming acid crater lake and observe vast exposures of advanced argillic altered crater walls associated with the active magmatic-hydrothermal system.

The trip will end with a visit to the Tujuh Bukit project, where the giant Tumpangpitu porphyry Cu-Au-Mo (855.00 t Au and 8.55 Mt Cu) and HSE Au-Ag (79.40 t Au and 2,461.40 t Ag) deposit was discovered in 2010, making it one of the largest discoveries in SE Asia in recent times. Tumpangpitu exhibits a classic example of telescoped Au-Ag (oxide) and Au-Ag-Cu (unoxidised high sulfidation mineralization and associated advanced argillic alteration (part of a district-scale lithocap) overprinting the top of a Cu-Au-Mo porphyry deposit. The project also offers the opportunity to examine a world class exposure of telescoped HSE mineralization onto an island of porphyry mineralization at Pulau Merah, exposed next to the Tumpangpitu mineralized system.

Note: Indonesia provides a visa exemption for citizens of China.

Everyone who will depart from Beijing needs to arrive at Lombok International Airport, Indonesia, before 17:30 on September 21 to connect with transport to Novotel. For the participants who will not travel from Beijing to Lombok, please make your own way to meet everyone at Lombok airport at 17:30 on September 21 or meet everyone at Novotel Hotel at 19:00 for dinner.

Thursday, September 21, 2017

From Beijing to Lombok, stop by Denpasar

- 06:05 - 01:05: Garuda Indonesia flight 893; From Beijing Capital International (PEK) to Ngurah Rai International (DPS)
- 16:00 - 16:50: Garuda Indonesia flight 436; From Ngurah Rai International (DPS) to Lombok International Airport (LOP)

Day 1 - Thursday, September 21, 2017

- 16:50: Arrive to Lombok International Airport
- 05:30 - 18:00: Depart from the Lombok airport to Novotel
- 19:00 - 21:30: **Late** dinner with welcome and introductory presentations: *Introduction to Porphyry Cu-Au and Related Epithermal Au-Ag Systems Along the Eastern Sunda Arc*: Adi Maryono; *Epithermal deposits* - Noel White

Accommodation

Novotel Lombok Resort and Villa

www.novotel.com/gb/hotel-0571-novotel-lombok-resort-and-villas/index.shtml

+62 370 6153333

Pantai Putri Nyale, Pujut Lombok Tengah, LOMBOK, Nusa Tenggara Barat 83001, Indonesia

Day 2 - Friday, September 22, 2017

- 07:30, 08:30, or 09:30: Three options for your seaplane trip from Lombok to Batu Hijau, Sumbawa
- 09:45: Travel to the mine site
- 10:00 - 10:30: Safety and introductory presentations
- 11:00 - 12:00: Batu Hijau open pit tour - Anaconda mapping exercise in Batu Hijau Pit
- 12:00 - 13:00: Lunch
- 13:00 - 14:30: Review drill core from Batu Hijau and Elang
- 15:00, 16:00, or 17:00: Three options for your seaplane trip from Seaplane Batu Hijau, Sumbawa to Lombok
- 19:00 - 21:30: Evening dinner and presentations: *Geology and Metallogeny of SW Lombok*: Iryanto Rompo; *High sulfidation deposits and lithocaps* - Lejun Zhang

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Day 3 - Saturday, September 23, 2017

- 07:00: Field - Sundancer lithocap - A transect of a complete lithocap profile from barren to mineralized HSE ledges and underlying porphyry Cu-Au prospect 1.5 hrs from Novotel
- 09:00 - 11:00: Brambang porphyry Cu-Au prospect (drill core) including diatreme breccia
- 11:00 - 13:00: Simbah and lunch
- 13:00 - 14:30: HSE mineralisation at Pelangan/Mencanggih and porphyry mineralisation at Selodong (drill core)
- 16:30 - 17:30: Porphyry stockwork and diatreme breccia exposures at Pangulu beach and return to Novotel
- 19:30: Dinner and Lithocap presentation: Noel White

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Day 4 - Sunday, September 24, 2017

Travel day. Each participant needs to book the following domestic flights from Lombok to Banyuwangi via Denpasar and Surabaya.

It is essential that you are booked on all three flights below, as we will be met by vehicles at the Banyuwangi airport and will travel directly from the airport to Ijen resort.

- Garuda, flight GA7049
Depart from Lombok International (LOP) at 06:10
Arrive to Denpasar, Bali at 07:00
- Garuda, flight GA341
Depart from Denpasar, Bali at 09:45
Arrive to Surabaya at 10:00
- Garuda flight GA7304
Depart from Surabaya at 11:45
Arrive to Banyuwangi (BWJ) at 12:45

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- 13:00 - 15:00: Rest or sightsee at the Ijen resort before night climb to Ijen
 - 15:00 - 17:30: Presentation on Tujuh Bukit (Rachel Harrison); Ijen volcanology (Mirzam Abdurachman)
 - 17:30 - 20:00: Cultural night at Pak Iwan coffee house

Accommodation

Jiwa Jawa Ijen Resort

www.jiwajawa.com/jiwa-jawa-resort-ijen

+62 811 303 818

Jalan Blimbing Sari, Desa Taman Sari, Licin, Banyuwangi East Java 68454

Day 5 - Monday, September 25, 2017

- 00:00 - 00:45: Drive from Jiwa Ijen Resort to Post Paltuding
- 00:45 - 01:15: Ascent briefing
- 01:15 - 03:15: Hike or local transport (I-jek) to Mt Ijen Peak and Crater Lake, 2,148m (2 hours)

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Day 5 - Monday, September 25, 2017 (cont.)

- 03:15 - 04:15: View “blue fire” from the fumaroles before sunrise
- 04:15 - 06:00: Ascend lip of the crater and await sunrise
- 06:00 - 08:30: Observe exposures of advanced argillic alteration and charcoal fragments along the track
- 08:30 - 13:00: Drive back to Jiwa Ijen Resort, rest, and eat lunch at Jiwa Ijen Resort
- 14:00 - 16:00: Drive to Tujuh Bukit Project
- 16:30 - 18:00: Visit Pulau Merah porphyry island before sunset

Accommodation

Rumah Mertua Cottage and local homestays

rumahmertuacottage.com

+62 823 67885000

Jl. Pantai Pulau Merah, Sumberagung, Pesanggaran, Kabupaten Banyuwangi, Jawa Timur 68488

Day 6 - Tuesday, September 26, 2017

Tujuh Bukit Project: Tumpangpitu porphyry and HSE deposits

- 09:00 - 10:00: Tujuh Bukit site presentations by BSI and safety induction
- 10:00 - 13:00: Open pit tour
- 13:00 - 14:00: Lunch
- 14:00 - 17:00: Drillcore review
- 18:00: BBQ dinner on the beach

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Day 7 - Wednesday, September 27, 2017

We will take everyone to the Banyuwangi airport in the morning to connect with their domestic flights from Banyuwangi (07:30 flights from Banyuwangi to Denpasar or Jakarta). Participants take flights return home/ go on holiday / go to work.

Leaders

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