



Specialist Group in Economic Geology  
Geological Society of Australia



THE UNIVERSITY OF  
**WESTERN  
AUSTRALIA**

# Lithium Mineral Systems and Exploration Methods

## One Day Workshop

**Audience:** This one-day short course is aimed at all geoscientists with an interest in understanding the origin of, and exploring for, lithium deposits in pegmatites, brines and clays.

**Course Content:** This course will provide background and critical information for lithium explorers, with contributions addressing:

- Geology
- Exploration
- Industry
- Mineralogy
- Analysis

**Duration:** 1 day- 08:30 to 17:00 (Perth time - GMT+8)

**Location:** The University Club of Western Australia, Entrance 1, Hackett Drive

**Cost:**

**Face to face:** Non-Members of GSA or CET AU\$400 | Members of GSA or CET AU\$200 | Current full-time students in Earth Sciences courses including up to PhD AU\$100

**Online:** Non-Members of GSA or CET AU\$150 | Members of GSA or CET AU\$100 | Current full-time students in Earth Sciences courses including up to PhD AU\$50

**Registration:** For registration and payment information please visit: [www.gsa.org.au](http://www.gsa.org.au) and access the events page

**12<sup>th</sup> February 2024**

Centre for **EXPLORATION  
TARGETING**



# Schedule

TIME	TOPIC	SPEAKERS
<b>MONDAY</b>	<b>Lithium Mineral Systems and Exploration Methods</b>	
<b>12/02/2024</b>		
<b>08:30-09:00</b>	<b>REGISTRATION</b>	
	<b>Li Mineral Systems &amp; Technology</b>	
09:00-09:25	Lithium at a continental scale: from mantle to regolith and water	Evgeniy Bastrakov (Geoscience Australia)
09:25-09:50	Lithium from brine; approaches to salty extraction	John Warren (Saltworks)
09:50-10:15	Clay-hosted lithium in Nevada	Bernard Browe (Ioneer)
10:15-10:40	Korean lithium refining technology and business opportunities	Tom Kong (EcoEnergy Resources Pty. Ltd.)
<b>10:40-11:00</b>	<b>COFFEE BREAK</b>	
	<b>LCT Pegmatite Mineral System</b>	
11:00-11:20	Geology of the Goulamina lithium pegmatite in SW Mali	Sebastian Kneer (Leo Lithium)
11:20-11:50	Structural controls on rare-metal pegmatites in Western Australia	Mike Grigson (Consultant)
11:50-12:10	TBA	Tony Kemp (UWA-CET)
12:10-12:30	Spodumene pegmatites of the Anningie pegmatite field: understanding lithium mineralisation in the Aileron Province, NT	Jack Stirling (UWA-CET)
<b>12:30-13:30</b>	<b>LUNCH BREAK</b>	
	<b>Exploration for LCT Pegmatites</b>	
13:30-13:50	Practical aspects of LCT pegmatite exploration	Ralph Porter (ERM formally CSA)
13:50-14:10	Primary litho-geochemical dispersion haloes of LCT pegmatites and their application to exploration	Marcus Sweetapple (Consultant)
14:10-14:30	Flora as a lithium exploration tool	Daryl Baker (Talison Lithium)
14:30-14:50	Machine assisted targeting – data and methodologies	Robbie Rowe (Sensore)
<b>14:50-15:10</b>	<b>COFFEE BREAK</b>	
	<b>Exploration Methods</b>	
15:10-15:30	Lithium deportment and mineral liberation studies using TIMA automated mineralogy	Zofia Swierczek (AXT)
15:30-15:50	Geochemical exploration for lithium	Andrew Daly (LabWest)
15:50-16:10	Handheld LIBS for lithium: best practise	Simon Bailey (SciApps)
16:10-16:30	Wind-Up	Walter Witt (UWA-CET), Andy Wilde (SGEG)