

# Exploration and mining of Li-rich LCT pegmatites One Day Short Course

**Audience:** The course is aimed at geoscientists from both industry and academia who wish to gain a better understanding of LCT pegmatite and Li and Cs enrichment.

**Course Content:** This one-day short course will provide a comprehensive overview of LCT pegmatites and associated Li and Cs mineralization. Invited scholars and experts will present on the following key topics:

- LCT pegmatites and Li mineralization in Western Australia
- Melt sources for pegmatites
- Exploration targeting
- Metallurgy
- Resource estimation and finance

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

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

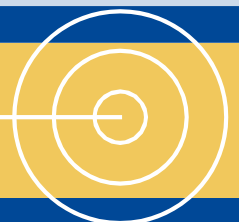
**Cost:** CET Members AU\$300 + GST | Non-Members AU\$450 + GST | University Postdocs and Fellows AU\$100 + GST | UWA Students attend for free

**Registration:** For registration and payment information please visit our website:

[www.cet.edu.au](http://www.cet.edu.au) and for more information please email us at [info.cet@uwa.edu.au](mailto:info.cet@uwa.edu.au)

29<sup>th</sup> September 2023

Centre for **EXPLORATION  
TARGETING**



## Who will be looking after you -



Marcus Sweetapple

Marcus Sweetapple works as a consultant to the mineral exploration industry, principally in Western Australia. He specializes in mineralogy, petrology and geochemistry applied to rare mineralized systems, with a particular interest in hard rock lithium at this time.



Steffen Hagemann

Steffen is a Professor of Economic Geology and Director of the CET at UWA. His research focuses on structurally controlled hydrothermal mineral systems and their translation into exploration targeting. Steffen has supervised and co-supervised 91 PhD, MSc and honors students.

## Schedule

TIME	TOPIC	PRESENTER
<b>Friday</b> <b>29/09/2023</b>	<b>Exploration and mining of Li-rich LCT pegmatites</b>	
<b>08:00-08:20</b>	<b>REGISTRATION</b>	
08:20-08:30	Welcome and overview	Steffen Hagemann (CET-Professor)
08:30-09:15	Overview of the LCT Pegmatite Mineral System	Marcus Sweetapple(Consultant geologist/Mineralogist)
9:15-10:00	Melt sources for LCT Pegmatites in WA and beyond	Lillian Kendall Langley (Senior generative geologist – SQM Lithium)
<b>10:00-10:30</b>	<b>COFFEE BREAK</b>	
10:30-11:15	District to terrane-scale controls on rare-metal pegmatites in Western Australia	Mike Grigson (Consultant- Arc Minerals Consultants)
11:15-12:00	Structural control of the Pilgangoora Pegmatite Field	John Grigson (PhD student)
12:00-12:45	Discovery, delineation and development of Australia's first Cs deposit: Exploration implications from applied technology	Nigel Brand (Consultant Geochemist- Portable Spectral Services)
<b>12:45-13:45</b>	<b>LUNCH BREAK</b>	
13:45-14:30	Exploration targeting of LCT pegmatites using the mineral system approach	Marcus Sweetapple (Consultant geologist/Mineralogist)
14:30-15:15	Multi-scale mineralogy of LCT pegmatites: Supporting exploration targeting	Carsten Laukamp (Senior Research Geoscientist - CSIRO)
15:15-15:45	Processing of Lithium from spodumene and recycling of its wastes	Ali Karrech (Professor -UWA)
<b>15:45-16:15</b>	<b>COFFEE BREAK</b>	
16:15- 16:40	Ore resource estimates of pegmatites	Martin Wells (Geologist/Research Fellow – Curtin)
16:40-17:05	Financing lithium project: what is important?	Daniel Harangozo (Investment Analyst - Nero Resource Fund)
17:05-17:30	DISCUSSION: successful exploration for Li-rich LCT pegmatites?	<b>Panel:</b> Steffen Hagemann, Lillian Kendall Langley, Mike Grigson, John Grigson, Nigel Brand, Carsten Laukamp, Ali Karrech, Daniel Harangozo <b>Convenor:</b> Marcus Sweetapple
17:30 onwards	<b>SUNDOWNER</b>	