



Specialist Group in Economic Geology  
Geological Society of Australia



THE UNIVERSITY OF  
**WESTERN  
AUSTRALIA**

# Uranium Mineral Systems and Exploration Methods

**Audience:** This seminar is aimed at geoscientists from industry and academia who wish to get a better understanding of various types of uranium deposit, and methods used in their discovery.

**Course Content:** A series of 20-30 minutes talks in which invited scholars and experts will present on topics including:

- Uranium hydrothermal chemistry
- Geology of various uranium deposit types
- Mineral prospectivity analysis
- Geophysical exploration methods

**Duration:** 1 day- 09:00 to 16:50 (Perth time - GMT+8), followed by sundowner

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

**Cost:**

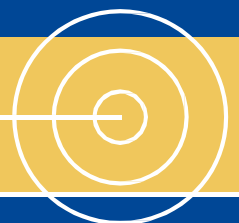
**Face to face:** Non-Members of GSA or CET AU\$400+GST | Members of GSA or CET AU\$200+GST | Current full-time students in Earth Sciences courses including up to PhD AU\$100+GST

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

**Registration:** For registration and payment information please visit our [website](#). Registrations close 30<sup>th</sup> June 2024.

**3<sup>rd</sup> July 2024**

Centre for **EXPLORATION  
TARGETING**



# Schedule

TIME	TOPIC	SPEAKERS
<b>MONDAY</b> <b>03/07/2024</b>	<b>Uranium Mineral Systems And Exploration Methods</b>	
<b>08:30-09:00</b>	<b>REGISTRATION</b>	
	<b>Unconformity &amp; Calcrete Type Mineral Systems</b>	
09:00-09:10	Introduction	Andy Wilde (Wilde Geoscience)
09:10-09:30	From Prospectivity Modelling To Discovery: GMZ Deposit, Saskatchewan	Andy Wilde (Wilde Geoscience)
09:30-09:50	Targeting Unconformity-Related Uranium Deposits: From Global Plate Reconstruction Models To Ground-Truthing A Frontier Province	Frank Bierlein (Bierlein Geoscience Consulting)
09:50-10:10	Real-Time ANT For Uranium Exploration In The Athabasca Basin	Darren Burrows (Fleet Space Technologies)
10:10- 10:30	Resource Estimation For Calcrete Hosted Uranium Deposits	Dave Princep (Gill Road Consulting)
<b>10:30-11:00</b>	<b>Coffee Break</b>	
	<b>Magmatic-Hydrothermal Mineral Systems</b>	
11:00-11:20	Uranium In Hydrothermal Fluids: New Data For Refined Models	Evgeniy Bastrakov (Geoscience Australia)
11:20-11:40	Rossing-Type Uranium Mineralisation Related To Leucogranite Magmatism	Andy Wilde (Wilde Geoscience)
11:40-12:00	History Of Granite-Related Hydrothermal Uranium Mineralisation Traced By LA-ICP-MS Mapping On Uraninite: Example From The Nanling Metallogenic Belt, South China	Christophe Bonetti (Arethuse Geology)
12:00-12:20	Central Ukrainian Uranium Province: Mantle Plume Related Albitite-Type Metasomatites	Leonid Shumlyanskyy (Institute of Geological Sciences of the Polish Academy of Sciences)
<b>12:20-13:30</b>	<b>Lunch Break</b>	
	<b>Exploration Methods</b>	
13:30-13:50	The Sandstone-Hosted U-V Bigrlyi Deposit As Part Of The Ngalia Basin Uranium Mineral Systems	Susanne Schmid (CSIRO)
13:50-14:10	Palaeochannel-Hosted Uranium In South Australia – A Second Honeymoon Would Be Nice!	Jason Cherry (Boss Energy)
14:10-14:30	Uranium Physics For The Exploration Geologist	Penny Sinclair (Sinclair Geoscience Pty Ltd.)
<b>14:30-15:10</b>	<b>Coffee Break</b>	
	<b>Exploration Methods</b>	
15:10-15:30	An Overview Of Geophysical Survey Methods For Uranium Exploration	Nigel Cantwell (Resource Potentials)
15:30-15:50	Biogeochemistry In The Uranium Exploration Space; A Case Study Of The 8 Fingers Target At The Bowgan Project, Northern Territory	Gary Price (Spinnaker Resources)
15:50-16:10	Borehole Logging For Uranium Exploration And Production	Jennifer Market (Wireline Services Group)
16:10-16:30	Panel Discussion	
16:30-16:50	Wind-Up	Andy Wilde (Wilde Geoscience)
<b>16:50 onwards</b>	<b>SUNDOWNER</b>	