

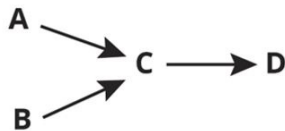
# Mineralising Systems and Discovery Strategy

## WAXI / Agate Project Training

18<sup>th</sup> to 22<sup>th</sup> August 2025  
Accra, Ghana

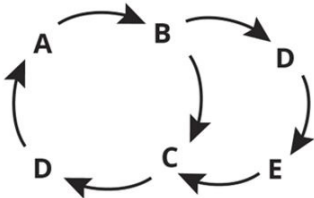
### Event Oriented Thinking

Thinks in straight lines



### Systems Thinking

Thinks in loop structure



**This 5-day training course and workshop will introduce cutting-edge approaches to mineralising systems using modern “Systems Thinking” and exploration science.**

**Participants will have the opportunity to critically assess which approaches and strategies will have greatest impact on their discovery success, through a combination of lectures, group exercises and workshop discussions.**

There have been many publications promoting “Mineral Systems” approaches to regional data collection, research and discovery. However, few of these have explicitly used systems thinking or moved far beyond data analysis and prospectivity mapping in GIS. Geowisdom’s approach to complex mineralising systems will help you understand the key levers that control the location and size of mineral deposits and how to translate this directly into exploration proxies, strategies and winning cultures.

This training course is curated by Tim Craske (MAIG, MSEG, MCET-UWA) who has thirty years’ experience in exploration project generation and management in Australia, the Americas and East Africa. Over the last 5 years he has focused on the application of advanced thinking approaches to improve mineral discovery rates, and was co-author on AMIRA’s Uncover Roadmap for exploring Australia’s covered terrains.

# Tin Systems

Venn Space  
Systems Summary  
April 2017

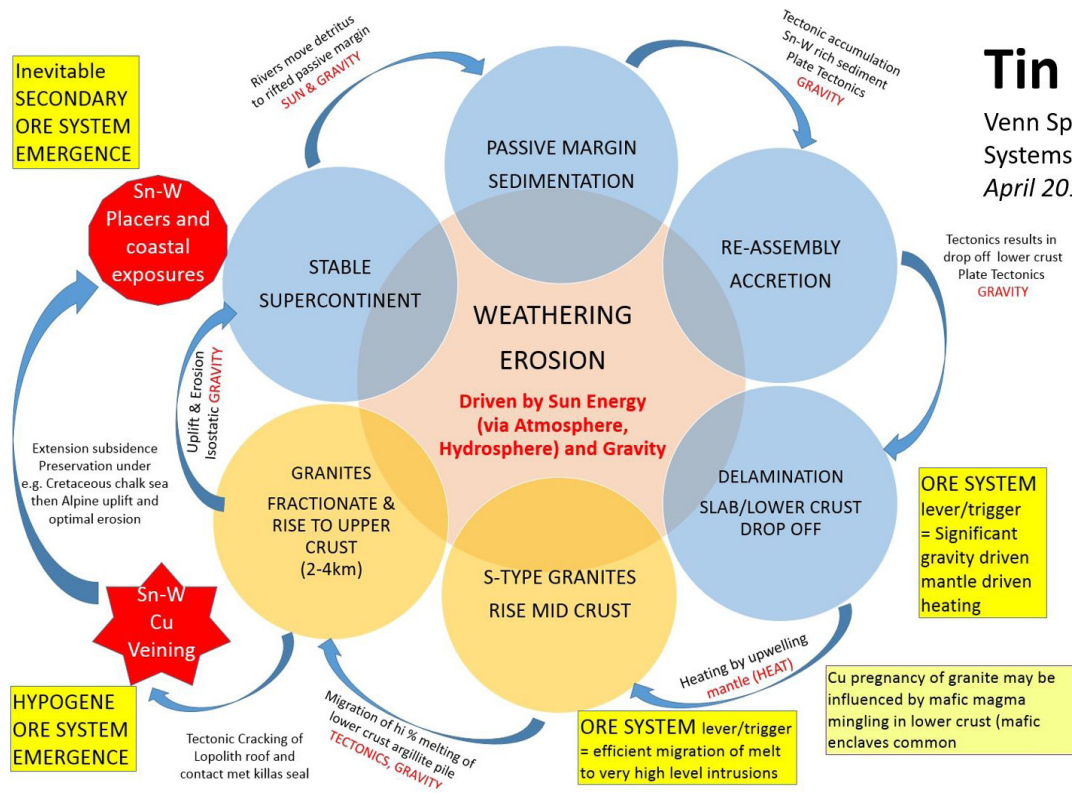


Figure: The Hercynian Tin System as a summary Venn diagram

The workshop will introduce systems theory and essential thermodynamics understanding of mineralising geosystems before moving to mapping complex systems and identifying key subsystems and levers.

Participants will learn to apply critical thinking to historical discoveries and discoverers, to work out how they beat the odds using science, innovation, paradigm shifts, perseverance or serendipity. All participants will gain new skills to apply as practical exploration strategies.

## Attendees' Case Histories and Strategy

Attendees interested in delivering short presentations on discovery case-histories that they have been involved in should prepare an 8- to 10-slide talk to share with other attendees on Day 1.

Attendees wishing to discuss discovery strategy experiences that have impacted them are encouraged to prepare a 5-slide introduction outlining their subject of interest so that the audience can understand the context for workshoping on Days 4 and 5.

*All attendees will have the opportunity to participate in collaborative discussion of their own discoveries and exploration experiences.*

# Programme

All practical training will use paper and printed data, no need to bring a laptop PC unless this is your preferred method of note taking. Manuals will be provided.

Date	Content	Course Element	Lecturer
18 August 2025 9am-5pm	Lectures	1. Introduction: Discovery – what is it? 2. Stopping poor exploration thinking 3. Introduction to critical thinking	TEC
	Presentations and excercises	4. Case studies of discovery	All
19 August 2025 9am-5pm	Lectures	5. Systems Thinking – for exploration success 6. Essentials of thermodynamics applied to mineralising systems	TEC
	Excercises	7. Mineralising System Mapping	All
20 August 2025 9am-5pm	Lectures	8. Complexity Science and non-linear behaviour 9. Targeting Science: greenfield vs brownfield	TEC
	Excercises	10. Translating Mineralising Systems into exploration proxies, targeting templates	All
21 August 2025 9am-5pm	Lectures	11. The Art of Exploration 12. Making your own Luck	TEC
	Excercises and workshop	13. Case studies collaborative discussion: What makes a winning discovery culture?	All
22 August 2025 9am-5pm	Lectures and workshop	14. The “5 Answers” 15. Discovery Strategies	TEC/All

## Course Leader: Tim Craske



Tim Craske is a geological consultant, proven ore discoverer (Ernest Henry, E1, West Musgraves) and team facilitator, with broad experience in training, collaboration and mentoring. He is currently principal consultant and director for Geowisdom consultancy that specialises in developing systems thinking for application in successful mineral exploration.

**Registration Fees:** For the full 5 days of training, including training materials, morning and afternoon tea and lunch.

WAXI Sponsors: USD 1,800 - Non WAXI Sponsors: USD2,200 - Will be invoiced in AUD

**Language:** English

**Where:** Accra, Ghana - From 9am to 5pm.

**Certificate of attendance:** Upon completion, participants will receive a certificate of attendance.



Knowledge, Skills, Networks in Earth and Planetary Science

## WAXI / AGATE Training Course

### Mineralising Systems and Discovery Strategy

18<sup>th</sup> to 22<sup>th</sup> August 2025

**Accra, Ghana- Pleaser register before the 1<sup>st</sup> July 2025**

Company .....

Entity to invoice

Address .....

Entity to invoice .....

Administrative Email contact .....

Attendee's Name (First name, SURNAME, email).....

Attendee's Name (First name, SURNAME, email).....

Attendee's Name (First name, SURNAME, email).....

Attendee's Name (First name, SURNAME, email).....

Total Registration Fees .....

US\$1,800 per person for WAXI sponsors &

US\$2,200 for non-WAXI sponsors.

Invoice in AUD and payable before the start of the training.

**Complete this form and return to:** [Corinne.Debat@agate-project.org](mailto:Corinne.Debat@agate-project.org)