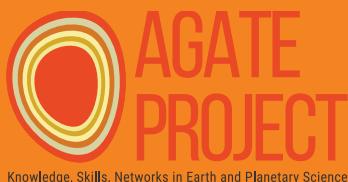
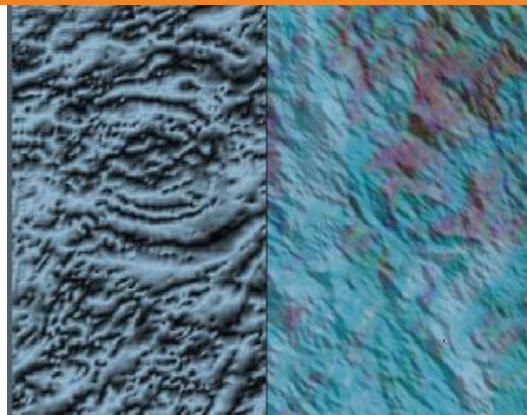


# Structural Geophysics

## Interpreting Regional Geophysical Data



**5-DAY PROFESSIONAL TRAINING COURSE**  
**25 - 29 July 2026, Accra, Ghana**



**This five-day training course will provide an introduction to modern laboratory-based techniques applied to the regional geophysical data of the West African Craton.**

This training is organised by Mark Jessell (UWA) who has many years of experience in the interpretation and modelling of aeromagnetic, radiometric and other regional geophysical data.

This course is aimed at geologists wishing to improve their skill base in modern integrated Structural Geophysics mapping techniques.

Many regions in the world now are covered at a high-resolution by airborne geophysical data sets, including magnetic, electromagnetic, digital terrain models and radiometric surveys. When combined with multi-spectral satellite data, and of course the available geological observations, these geophysical data provide key constraints on our geological interpretation, in particular in ancient terrains.

### Why Attend

- To improve your technical skills in modern geophysics-constrained mapping
- To gain practical experience using real regional datasets
- To strengthen your ability to integrate geological and geophysical data
- To learn directly from an international expert in regional geophysical interpretation
- To apply the training to your own exploration projects and datasets
- To improve your understanding of structural controls on mineralisation

### What you will learn

- How to interpret regional geophysical datasets
- Application of potential field and radiometric data to geological interpretation
- Processing and enhancement of magnetic and geophysical grids
- Principles and applications of Structural Geophysics
- Interpretation strategies for complex terrains
- Petrophysics and lithological controls
- Identification of structural controls on ore deposits
- Construction of 3D geological models
- Application of 3D geophysical inversion techniques
- Use of custom QGIS plugins for interpretation, modelling and inversion

# Program

All attendees will have the opportunity to participate in collaborative interpretations of their own data sets.

Day		Course Elements
Day 1 25/07	Lectures	1 Introduction: what can potential field data tell us about geology? 2 Geophysical principles; 3 Regional Geophysics and the Regolith
	Laboratory exercises	Collaborative Case Study: Regolith, making Geological maps from geophysical interpretations using QGIS
Day 2 26/07	Lectures	4 Data processing using SGTools 5 Data/Image filtering/processing – enhancing the geological signal 6 Structural Geophysics
	Laboratory exercises	Collaborative Case Study: Processing geophysical grids using the SGTool plugin; Interpreting Structures
Day 3 27/07	Lectures	7 Interpretation strategies 8 Petrophysics / lithologies
		Collaborative Case Study Attendees' Data Sets
Day 4 28/07	Lectures	9 Structural Controls on Ore Deposits
		Collaborative Case Study Attendees' Data Sets
Day 5 29/07	Lectures	10 3D Geological Modelling and Geophysical Inversion
		3D Geological Modelling and Geophysical Inversion using Loop3D and Tomofast-x QGIS plugins

## Course Content: Hands On Exercises

### Attendees' Data Sets

Attendees wishing to provide datasets for discussion should provide images the data from their area of interest so that the audience can understand the regional or local context of the data. If digital data are available then both processing and interpretation procedures can be performed.

All practical training will use PC's provided by attendees.

All relevant data will be provided, although attendees MUST have QGIS installed on their machines to be able to use the custom plugins provided with this course. Installation instructions will be provided prior to the course.

# Information

**Date:**

25 to 29 July 2026

(includes a Saturday and a Sunday).

**Duration:**

5 days.

**Venue:**

Alisa Hotel, North Ridge, Accra,  
Ghana.

**Time:**

From 9:00 to 17:00 every day.

**Language:**

French and English

**Course leader: Mark Jessell**

Professor at the Centre for Exploration Targeting at The University of Western Australia, Mark Jessell has a vast experience in interpretation and modelling of aeromagnetic, radiometric and other regional geophysical data in 2 and 3D.

**Registration Fees:** USD 2,250 per attendee. The fee includes morning and afternoon tea, lunch, and training materials. Payment must be completed before the start of the training. Any applicable country withholding taxes will be added to ensure the net amount received is USD 2,250.

**Registration:**

Deadline: 1<sup>st</sup> April 2026 - Register using the form on the next page.

**Certificate of Attendance**

Upon completion, participants will receive a certificate of attendance.

**Opportunity to attend the IASTG Conference 2026**

The IASTG Conference will take place in Accra before this training course. Why not extend your stay and attend the conference? Visit our website for more information.

# Registration



## Structural Geophysics

25 to 29 July 2026 - Accra, Ghana

Registration deadline 1<sup>st</sup> April 2026

Please complete this form and email it to: Corinne.Debat@agate-project.org

### Company Information

Company .....

Address .....

Entity to invoice .....

Administrative Email contact .....

### Participants

Total number of Participants .....

Attendee Name + email.(first name and surname )

.....  
Attendee Name + email.(first name and surname )

.....  
Attendee Name + email(first name and surname )

.....  
Attendee Name + email(first name and surname )

### Fees and Currency

	US\$	AU\$
Select your preferred invoicing currency		
Base registration Fee	2,250.00	<u>3,395.00</u>

Whithholding Tax if applicable	%
Final amount Payable: price / (1 - withholding tax%)	

The organisers reserve the right to cancel the training if the minimum requirement of 12 participants is not met.