

Structural Geology Applied to Mineral Exploration

WAXI/Agate Project Training

13th - 17th October 2025

Saly, Senegal



This 5-day training course is designed for geologists who want to build or strengthen their skills in structural geology, from field mapping techniques to advanced structural analysis of ore deposits.

This training begins with “back-to-basics” concepts and steadily progresses to advanced techniques in structural interpretation, including hands-on data integration and applied exploration strategies.

Skills and Topics Covered:

The course covers the description and analysis of geological structures in the Earth's crust with insights through the fundamental principles of stress, strain and rheology.

It explores classic structural elements faults, folds, shear zones, and tectonic styles and their geophysical expression, providing essential tools for field mapping and geophysical data interpretation.

Emphasis is placed on practical techniques for integrating structural observations with mineral systems at both regional and mine scales.

Delivered through lectures and interactive, hands-on classroom exercises, this course provides a solid foundation and practical framework for applying structural geology in real-world exploration and mining contexts.

Programme

Suitable for all levels, from beginners to advanced.

<i>Date</i>	<i>Course Elements</i>	<i>Lecturer</i>
Monday 13 Oct 8:30 am to 5:00 pm	<ul style="list-style-type: none">• Lecture 1: Stress, strain and rheology• Lecture 2: Structural mapping tools and techniques• Lecture 3: Structural geology, fluid flow and ore de-posit formation• Practical 1: Map interpretation	Nico Thebaud
Tuesday 14 Oct 8:30 am to 5:00 pm	<ul style="list-style-type: none">• Lecture 4: Shear zones descriptors and interpretation• Lecture 5: Fault and veins interpretation• Practical 2: Faults and veins analysis	Nico Thebaud
Wednesday 15 Oct 8:30 am to 5:00 pm	<ul style="list-style-type: none">• Lecture 6: Stereonet projection• Practical 3: Using stereonet to resolve fault and vein problem analysis	Nico Thebaud
Thursday 16 Oct 8:30 am to 5:00 pm	<ul style="list-style-type: none">• Lecture 7: Mapping folds• Practical 4: Folded terrains interpretation from structural interpretation and block diagram construction	Nico Thebaud
Friday 17 Oct 8:30 am to 5:00 pm	<ul style="list-style-type: none">• Lecture 8: Structural evolution, early architecture and structural targeting across scales• Practical 5 : Map analysis, early architecture and-mineralisation.	Nico Thebaud

Course benefits:

- Develop practical structural geology skills, including tools, techniques, and best practices for mapping and interpretation.
- Strengthen mapping capabilities, whether starting from scratch or building on existing knowledge.
- Learn how to managed structural datasets and conduct structural interpretation.
- Understand how deposit-scale structures relate to regional tectonic frame-works.
- Interpret different structures and discuss their influence on ore deposit formation.
- Gain a solid understanding of the structural controls on mineralisation allowing to predict ore deposit localisation and geometrical characteristics essential for effective exploration and targeting.

Information

Course Leader: Nicolas Thebaud



Nicolas is an Associate Professor from the Centre for Exploration Targeting at the School of Earth Sciences at the University of Western Australia.

Nicolas has extensive experience in structural geology and its application to the study of mineral deposits across scales.

Date

13 to 17 October 2025, 5 days.

Time

08:30 am - 05:00 pm Senegal time - Face to Face training

Duration

5 days

Venue

Le Saly-Hotel & Hôtel Club Les Filaos - www.lesalyhotel.com
Saly-Portudal SENEGAL

Language

French and English

Registration fees

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

WAXI Sponsors US\$1,800 per attendee - Non-WAXI sponsors US\$ 1,950 per attendee. Invoice of currency AU\$.

Registration deadline

1 September 2025

Certificate of Participation:

Participants will receive their certificate at the end of the training course.

Structural Geology Applied to Mineral Exploration

13 to 17 October 2025 Saly, Senegal

Complete and return this form before the 1st September 2025

Company

Entity to invoice:

Address

.....

Phone

Administrative Email contact

Attendee's 1 First Name Surname.....

Email:.....

Attendee's 2 First Name Surname.....

Email:.....

Attendee's 3 First Name Surname.....

Email:.....

Attendee's 4 First Name Surname.....

Email:.....

Total Registration Fees

WAXI Sponsors US\$1,800 per attendee, Non-WAXI sponsors AU\$21,950 per attendee, Invoice of currency: US\$

Email: Corinne.Debat@agate-project.org

On confirmation of your places, we will ask you to transfer the registration fee to a bank account to be announced. Registration valid only when the invoice is paid in full