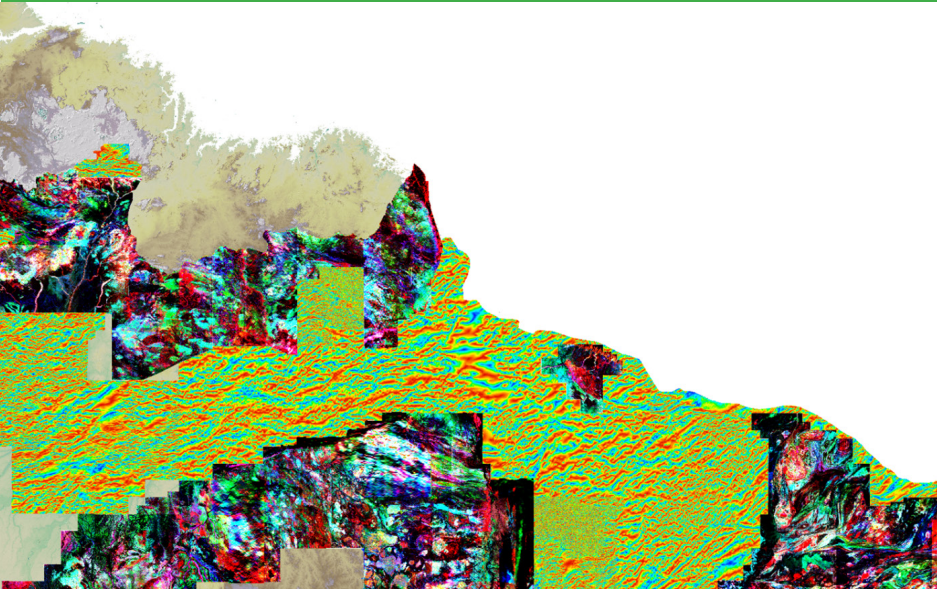


Structural Geophysics

Online SAXI Training

11-15th July 2022



This 5 day training course will provide an introduction to modern laboratory based techniques applied to the regional geophysical data of the north eastern South America.

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.

This training course, organised by Mark Jessell (UWA) who has many years experience of interpretation and modelling of aeromagnetic, radiometric and other regional geophysical data, is aimed at those people who would like to acquire the fundamental interpretation techniques needed to use very high resolution data sets and those who are faced with the problem of integrating their geological and geophysical data.

Participants will be trained on case studies using data from the region, and are encouraged to bring their own regional datasets.

Programme

It is important that you have viewed the relevant module at your own time before the online session.

All lectures will be provided as pre-recorded videos.

All lab exercises will be online, and will be supervised by the SAXI team.

Day	Date	Course Element	Lecturer
Day 1	Monday Online pre-recorded Lectures	1 Introduction: what can potential field data tell us about geology? 2 Geophysical principles; 3 Regional Geophysics and the Regolith	MWJ
	Monday Online laboratory exercises	Collaborative Case Study: Regolith	
Day 2	Tuesday Online pre-recorded Lectures	4 Data processing and data degradation during processing 5 Data/Image filtering/processing – enhancing the geological signal	MWJ
	Tuesday Online laboratory exercises	6 Structural Geophysics Collaborative Case Study: Interpreting Structures	MWJ
Day 3	Wednesday Online pre-recorded Lectures	7 Interpretation strategies 8 Petrophysics / lithologies	MWJ
	Wednesday Online laboratory exercises	Collaborative Case Study: Interpreting lithology Attendees' Data Sets	
Day 4	Thursday Online pre-recorded Lectures	9 Structural Controls on Ore Deposits	MWJ
	Thursday Online laboratory exercises	Collaborative Case Study Attendees' Data Sets	
Day 5	Friday Online pre-recorded Lectures	10 Inversions: 2.D & 3D forward and inverse modeling	MWJ
	Friday Online laboratory exercises	Collaborative Case Study Attendees' Data Sets	

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

All relevant data will be provided, although attendees should have access to their own GIS software if possible, if not they will be provided with QGIS.

Informations

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

Course Content: Hands On Exercises

Attendees' Data Sets

Attendees wishing to provide datasets for discussion should prepare a 5 slide introduction to 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.

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

For the full 5 days of training, including training materials.

SAXI Sponsors AU\$1,500 per attendee

Non-SAXI sponsors AU\$2,000 per attendee



Before 15/06/2022:

SAXI sponsors AU\$1,300, non-sponsors AU\$1,800

Language

English

*SAXI Companies Sponsors: Barrick Gold
Anglogold Ashanti, CENTAMIN, Newmont
Reunion Gold*



Duration

5 days, 3 hours/day pre-recorded lecture to be watched at anytime before the related session + 3 hours/day live online (lab exercises).

Time

<i>Georgetown, Santiago</i>	<i>Rio de Janeiro, Cayenne, Paramaribo</i>
<i>8 am to 11 am</i>	<i>9 am to 12 pm</i>

Registration

Register and pay online on the SAXI website, or using the form on the next page.

Certificate of Attendance

Upon completion, participants will receive a certificate of attendance



SAXI Structural Geophysics Online Course

11th-15th July 2022

Either complete this form or register online:

www.saxiproject.org/trainingcourses/

Company

Address

.....

Phone

Administrative Email contact

Attendee's Name 1.....

Attendee's Name 2.....

Attendee's Name 3.....

Attendee's Name 4.....

Total Registration Fees



Before 15/06/2022: (AU\$1,300 per person for SAXI sponsors & AU\$1,800 for non-SAXI sponsors) :

After this date: AU\$1,500 per person for SAXI sponsors & AU\$2,000 for non-SAXI sponsors

Email: Corinne.Debat@uwa.edu.au

On confirmation of your places, we will ask you to transfer the registration fee to a bank account to be announced.