



Minerals Council of Australia

NEXUS
National Expertise
Professional Development
Workshops

THE UNIVERSITY
of ADELAIDE

SOUTHERN GEOSCIENCE
CONSULTANTS

GEOINTERP

Geological Interpretation
of Aeromagnetic Data –
a Practical Approach

2-Day Online Workshop
30th-31st March 2021 (Limited to 30 places)

Presented by David Isles and Leigh Rankin

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- NEXUS-Professional Development (NEXUS-PD) is proud to be able to present this very highly regarded workshop online for the very first time.
- The specially designed two-day online workshop* will introduce the fundamentals of geological interpretation of aeromagnetic data.
- The workshop will feature lectures, practical activities and case studies all using integrated data sets.
- Each day will feature 3 x 2hr sessions with exercises to be completed between the sessions and time allocated for extended discussions.
- The format aims for open, transparent communication, with input from participants highly encouraged to share knowledge and experiences.

**This is a level-4 course (honours level) and is designed to be suitable for early career geoscientists, honours students and HDR students. The workshop is not assessed.*

Day 1, Methodology of Aeromagnetic Interpretation – David Isles

(Tues 30th March):

- Sessions will include: Basic Principles, Physics and Concepts of M Magnetics, Spatial Concepts, Survey Planning, Processing and Presentation of Data, Anomalies, RTP and Analytical Signal, Modelling and Inversion, Introduction to Golden Dyke Prospect Case Study

Day 2, Geological Interpretation and Structure – Leigh Rankin

(Wed 31st March):

- Sessions will include: Golden Dyke Prospect Case Study, Magnetisation in Rocks, Charters Towers Case Study, Structures in Magnetics, Widgiemooltha Case Study, Unusual Magnetisation and Final Q+A session.

Full Registration: \$500

AIG and ASEG Members: \$400

Students: \$100

For further information, please contact: Richard.Lilly@Adelaide.edu.au

Presented by:



Dr. David Isles has over 40 years of mineral exploration experience across a range of commodities including gold, base metals, diamonds and iron ore in Australia, Africa, Canada, India, the Middle East and Southeast Asia. David worked with BHP Minerals and airborne contractor World Geoscience Corporation, specialising in the interpretation of aeromagnetics. Since 1993, he has been a specialist independent consultant to a range of companies and maintains substantial involvement with R&D and training activities. He is currently an exploration consultant with Southern Geoscience and is a member of the ASEG and AIG.



Leigh Rankin worked with the Geological Survey of South Australian as a field geologist, and subsequently joined World Geoscience Corp as a senior geologist, where he was involved with major geological projects in India and South America. In 1997, Leigh formed an independent consultancy (Geointerp) specialising in the integration of structural geology and interpretation of geophysical data for mineral and hydrocarbon exploration, with involvement in programs in over 35 countries. He is a member of the AIG, SEG and GSA.