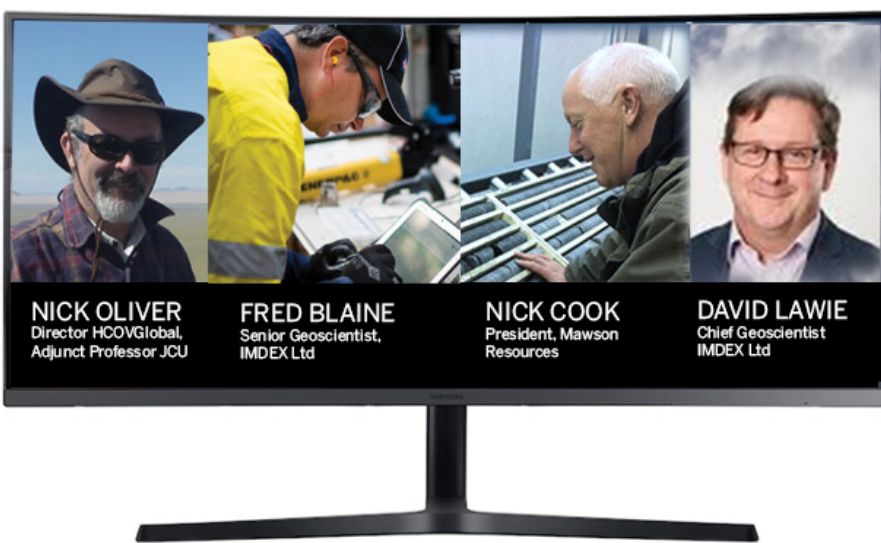


# ioGAS™ pluggedIN

**On-line course delivery via Zoom**  
 Week commencing Monday July 20.  
 12 primary contact hours.



>> **PRESENTERS:** Nick Oliver (HCOVGlobal) with Fred Blaine and Dave Lawie (IMDEX), and Nick Cook (Mawson Resources)  
 >> **ORGANISERS:** Nick Oliver, Nick Cook  
 >> **TECHNICAL DELIVERY SUPPORT:** Nick Cook (Mawson), Putra Sadikin and Sophie Alexander (IMDEX)  
 >> **ENDORSED BY:** IMDEX/REFLEX, Mawson Resources, AIG, EGRU, UQ-SMI/WH Bryan Centre

**Instructive**

Principles of geochemistry (and structure) fused into best-practice software and workflows, using the world's premier geochemical data analysis software, delivered by experts in training, mineral discovery, technology and the software authors and developers.

**Immersive**

Step-by-step guides via specific examples, hands-on use of the software as an integral part of the course, development of actual workflows with real datasets, delivered interactively, on-line via Zoom in a way that maximises learning and potential for application to your own datasets.

**Practical**

Staged training and worked exercises during the sessions are complemented by 'homework' tasks to give attendees the opportunity to reiterate, refresh and understand. Q&A sessions are used to facilitate the exchange. Application to datasets of varying type and quality (sample, analytical method), geological scope relevant to a range of commodities (Au, Fe, Ni-PGE, REE, Li, base metals, big data), fusion of structural, geochemical and geophysical data, and production of 2D and 3D products for export/use in other packages.

**ioGAS** licence will be available for the course. You can download ioGAS a few days before the course and you have two weeks free use. If you've already used up a free trial, we can arrange access via a server. Or you can purchase ioGAS, 'Enquire Now' at <https://reflexnow.com/product/iogas/>

**Each day starts 1100 AEST** Australian Eastern Standard time (GMT+10; 0900 Perth, eastern Asia; 1300 NZ; day before at 1800 Vancouver, 1900 Calgary/LA, 2000 Lima/Bogota, 2100 Santiago)

**>> Mon July 20: 1100 AEST to 1200,**

setup and load datasets, check on zoom etc.

**>> Tues July 21: 1100 to 1400 AEST**

Introduction to geochemistry and ioGAS, overall workflow aspect of ioGAS interface, QAQC, data types, questions to ask before starting, commence simple ioGAS assessment of soils data, fundamental tools and hands-on 'how-to', aim to manually identifying clusters within the dataset and applying them to visualize probable protoliths, and compare that to available geophysics. Main practical: recognizing and mapping lithochemical clusters from soils geochemistry.

**>> Weds July 22: 1100 to 1400 AEST**

Revision/review of outcomes from Tuesday, maps and grids, moving through the main toolbar, how merging data can be done to generate the best possible datasets that build around the geochemistry, upload and analyse new combined geochemistry + structure database, introduction to generating 3D outputs. Main practical: using combined structure/geochemistry data from a gold drill program to identify 3D controls on mineralization.

**>> Thurs July 23: 1100 to 1400 AEST**

Graphs, Diagrams, Mineral and Rock Nodes, Analysis. Introduction to the philosophy of use of the Analysis ("heavy") part of ioGAS – thinking, workflows, supervised and unsupervised statistical analysis. Main practical: Developing and using complex workflows and statistical data analysis for a drill-core based (long-section) dataset (layered Ni-Cr-PGE intrusive complex).

**>> Fri July 24: 1100 to 1400 AEST**

Development of a full workflow for a complex database of surface and drill-core based data, alteration and vector recognition, tactics, approaches, variations. Main Practical: full attendee immersion from start to finish for design, analysis,

## REGISTRATION IS NOW OPEN

**Cut and paste the information overleaf into the body of an email, edit and send to [nickoliver@hcovglobal.com](mailto:nickoliver@hcovglobal.com)**

- Your registration email will be acknowledged ASAP. Confirmation of registration is upon payment by invoice.
- Fully refundable until 2100 AEST July 13
- 90% refundable from July 13 2100 AEST until 0900 AEST July 19
- Late registrations after 2100 AEST July 13 will attract a 10% surcharge
- We retain the right to cancel the course and will refund any fees if such action is required (less international bank transfer and exchange rate fees if payment from outside Australia).

## PROFESSIONAL TRAINING CREDITS

Participation in this event may contribute to meeting Continued Professional Development (CPD) requirements of professional institutes – the course counts as 12 CPD hours for AIG members. Participants will be encouraged to complete an AIG feedback survey.

## Feedback from our May course, delivered to 65 European clients

*"In some ways I think this online course was better than it would have been face to face. It was possible to do other jobs in the afternoons. Also I have a feeling that more questions were asked through the chat than in a normal course."*

*"The course was good and in my opinion it is easier to follow the content in this type of online course than in a normal live classroom situation. Doing the course online means that everyone has their own screen, headphones and microphone which makes it easier to follow the content and interact with the presenters. The only drawback is that there is no chance for additional geology discussions over the beer in a pub after the course."*

## Costs

(add 10% GST if based in Australia)

**>> Full:** AUD \$950

**>> AIG or EGRU or UQ-SMI member clients** \$800

**>> Combinations of AIG/ EGRU/UQ-SMI** \$750

**>> Full time students** \$285 (with supervisor or institute approval/verification)

**>> HCOVGlobal clients** (we will contact you)

**>> Unemployed geoscientists:** contact us during registration



AUSTRALIAN  
INSTITUTE OF  
GEOSCIENTISTS



# Registration

Once you have registered, we will send you a confirmation email followed by an invoice.

**To register:** cut and paste these words below into the body of an email to [nickoliver@hcovglobal.com](mailto:nickoliver@hcovglobal.com), **using ioGAS PluggedIn Registration** as the Subject. Answer and delete irrelevant parts.

**Name:**

**Affiliation:**

**Experience with geochemistry (scale 1 to 5):**

**Experience with ioGAS (scale 1 to 5):**

**Your main commodity or interest:**

**Registration status** (delete those that do not apply):

- A. Full fee AUD\$950 + GST if based in Australia
- B. Full fee AUD\$950 + \$15 transfer fee if based abroad
- C. AIG or EGRU member or UQ-SMI client AUD\$800 + GST
- D. AIG and EGRU member or UQ-SMI client AUD \$750 + GST
- E. Full time student (\$285); I am enrolled and my supervisor's email is .....
- F. Unemployed geologist (excludes consultants with ad hoc work). I am happy to be contacted by email to discuss
- G. HCOVGlobal client

**Invoicing** (delete those that do not apply, contact [nickoliver@hcovglobal.com](mailto:nickoliver@hcovglobal.com) if uncertain)

- A) please send single invoice to me at this email address
- B) please send single invoice to me at this email address and copy to ....
- C) I am part of a group registration, the invoice will be handled by .....
- D) I am leader of a group registration, the invoice will be handled by me (or .....admin person). I will append details of the other registrants and their Registration status
- E) I am part of a group registration, my organisation/company requires a purchase order and/or internet form exchange in order to complete registration and payment
- F) I am leader of a group registration, my organisation/company requires a purchase order and/or internet form exchange in order to complete registration and payment. I will append details