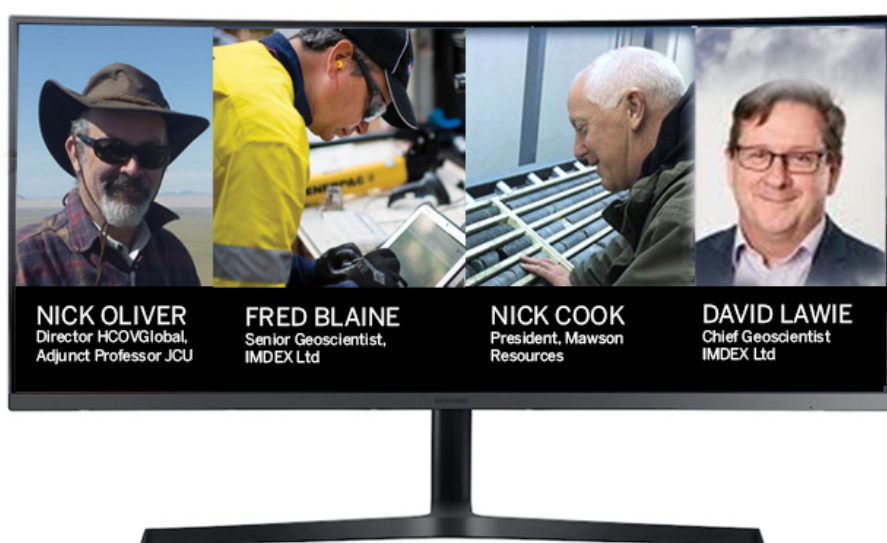


# ioGAS™ pluggedIN

**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

**FIRST CIRCULAR:**  
**Pre-register your interest now!**

Registration opens mid June but your place will only be secure if you pre-register by return email. Final numbers of participants may depend on the sequence of pre-registration, at the organisers' discretion.

**CONTACT:** [nickoliver@hcovglobal.com](mailto:nickoliver@hcovglobal.com), for pre-registration and further details.



>> **ioGAS™** is the premium geochemical package for geologists, but also has high-level capacity in enhanced mapping, structural geology, fusing geochemistry and structure, and easy export of 2D and 3D outputs into GIS and 3D modelling packages (including GoogleEarth, Mapinfo, ArcGIS, QGIS and Leapfrog). More than a decade of development and knowledge transfer from ioGAS™ experts has resulted in optimised workflows and easy-to-use tools that incorporate industry best practice in interpretive techniques. Over 500 commercial, government and academic research organizations are using ioGAS, and the global impact on efficient workflows is now widely recognised. This recognition has been attained by the easy and intuitive user interface, the logical yet flexible structure of the program, the easy translation of results into other mapping and 3D modelling software (especially Leapfrog), on-line webinars and support within the IMDEX network, data transfer and management excellence (including via IMDEXHUB-IQ™) and the consequent excellent value-for-money equation.

## >> WHO IS THIS COURSE FOR?

This course is intended for geologists working in the minerals sector, geological surveys, research organizations and students, to learn and/or improve their ioGAS skills, no matter their level of experience. Until you've used ioGAS, you won't understand how effective it is for optimising workflows, teaching you new geochemical, geostatistical and structural skills, and generally making your life easier and more productive through its cleverly engineered interface.

## >> WORKSHOP CONTENT

- Data suitability and QAQC of data, types of geochemical (and other) data suitable for use in ioGAS
- Principles of the use of geochemistry in primary (sedimentary, igneous) and secondary (metamorphic, hydrothermal) environments, focussed on how to subsequently solve with ioGAS
- Data import, using 'Data Doctor', how to get up and running
- Basic tools of data classification
- Functionality of embedded diagrams
- Using published mineral and rock compositions to help understand your system
- Distinguishing protolith variability from alteration, metamorphism and veining
- Intermediate to advanced data classification, geostatistics in ioGAS
- Visualization in ioGAS – 2D, 3D, down-hole, maps, grids
- Speaking with other systems – export styles for GIS and 3D packages and the ioGAS/Leapfrog link
- Linking other datasets within and around ioGAS – structural data cleanup, alpha/beta to dip/dir conversion, attributing structure data with geochemistry and vice versa, linking to down-hole/3D and mapped surface data (e.g. spectral, geophysics), extracting vein abundance and identifying replacement trends
- Applying all the above to real datasets that you will also work on between the daily sessions
- Developing time-saving workflows in ioGAS

## >> THE PRESENTERS

**Nick Oliver** (PhD, FSEG, FAIG, MSGA) is a consultant specialising in the assessment and fusion of geochemical, structural, and geophysical datasets and application of these to solving field-, drill core- and mine-based geological problems. He has used ioGAS on over 50 projects in the last 10 years. He is Adjunct Professor of Geology at James Cook University and was Professor of Economic Geology and Director of the Economic Geology Research Unit at JCU from 1997-2010. He has delivered short courses to over 4500 geologists, including courses on fusing geochemistry and structure in Helsinki and Luleå in 2018.

**Nick Cook** (PhD, Mawson) and James Cleverley (PhD, Reflex/Imdex) joined with **Nick Oliver** to present a successful course on drill core analysis and interpretation at FEM, Levi (Finland) in October 2019. These three also presented ioGAS ReWired to a northern European on-line format in May 2020, similar to the intended content for this workshop. **Nick Cook** has a wealth of practical exploration experience in Australia and Finland, and has used ioGAS successfully in the progressive development of the Rajapalot Au-Co resource in Lapland.

**Fred Blaine** (PhD) is a geochemist and senior scientist at IMDEX with a wealth of experience with ioGAS development and use, building on an earlier background of exploration geochemistry. **Dave Lawie** (PhD) was the founder of ioGlobal, designed and wrote the original ioGAS software, and is the Chief Geoscientist of IMDEX and recognised leader in developing and implementing practical geochemical and technical solutions for the minerals sector.

**Nick Oliver** and **Nick Cook** are Promoters for ioGAS but are not employees of IMDEX/REFLEX. HCOVGlobal is a consortium of independent consultants and Nick Oliver trades as HCO Associates Pty Ltd within that consortium. Nick Cook is acting as an independent consultant for the purposes of this course, but his involvement is endorsed by Mawson Resources. Dave Lawie and other Fred Blaine are representing IMDEX/Reflex.

### PRICING

(+GST) AIG, EGRU and UQ-SMI members \$800, \$950 (non-members), combinations \$750, HCOVGlobal clients \$500 (site-specific – we will contact you), unemployed \$475, full time students \$285, pricing to be confirmed on June registration form.

### LOGISTICS

- First day, Monday 20 July, 1100 Eastern Standard Time Australia, Introduction and Set-up
- Each of the next 4 business days (21st to 24th July): 3 hours per day contact commencing 1100 EST
- Practical work includes "home-work" after the official course hours on several of the course days.

### PROFESSIONAL ENGAGEMENT

Participation in this event may contribute to meeting Continued Professional Development (CPD) requirements of professional institutes. Participants will be encouraged to complete an AIG feedback survey.

