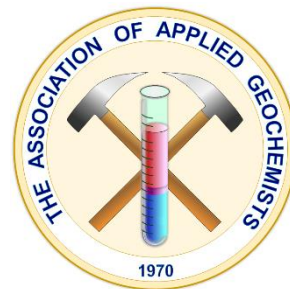




# 16<sup>th</sup> SGA BIENNIAL MEETING SHORT COURSE

## Exploration Geochemistry: *Applying the Fundamentals*



**One-day short course, 27 March 2022**

**On-line**

### **Presenters:**

**Dennis Arne**, Telemark Consultants and a past-president of the AAG

**David Cohen**, University of NSW and a past-president of the AAG

### **SHORT COURSE DESCRIPTION**

In understanding of the basic geochemical concepts of element distribution, geochemical processes and relationships at various scales will be combined with sampling theory and practices to provide a model-based geochemical exploration workshop. Sampling strategies, sample types, and key analytical methodologies will be discussed, leading into multi-element strategies for data interpretation and target selection. The workshop will utilise a variety of mineralisation styles demonstrate how simple chemical principles can be applied to enhance discovery through the application of chemistry in mineral exploration. There will be a mixture of presentations and short practical exercises.

Participants should have access to Excel.



**8**  
**CPD Hours**



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## Exploration Geochemistry: *Applying the Fundamentals*



## PROGRAM

<i>Component</i>	<i>Presenter</i>
Introduction to the course	Dennis Arne
Lithogeochem and mineral systems	Dennis Arne
Deeply weathered environments (I)	Dennis Arne
loGAS exercise	Dennis Arne
Deeply weathered environments (II)	David Cohen
The problem of cover	David Cohen
Mandamah exercise (Excel)	David Cohen
Analytical options and QA/QC	Dennis Arne
QC exercise	David Cohen
Geochemical mapping	David Cohen
Mapping exercise (Excel)	David Cohen

\*Given the diverse time zones of participants, the timing of delivery (live and pre-recorded components) is being reviewed. Participants will be advised of final timing by 21 Feb).

### FEES

\$140 for members, \$180 for non-members, \$70 for student or retired members and \$90 for student or retired non-members. Register at <https://confer.eventsair.com/sga2022/registration>

### FURTHER INFORMATION

Email David Cohen at [d.cohen@unsw.edu.au](mailto:d.cohen@unsw.edu.au)



# 16<sup>th</sup> SGA BIENNIAL MEETING SHORT COURSE

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## PRESENTERS



**David Cohen FAAG FAIG FRSN**

### **Regolith processes, geochemical mapping and the problem of cover**

David Cohen has over 35 years research experience in exploration and environmental geochemistry with projects based in Australia, Cyprus, Asia, the Middle East and North America. He has published over 90 papers, book chapters and major government reports, and is an associate editor of the Journal of Geochemical Exploration. He is currently the President of the Australian Geoscience Council and is a former head of the School of Biological, Earth and Environmental Sciences at UNSW, and a former President of the Association of Applied Geochemists. He is on the scientific advisory board of the MinEx CRC. He was the 2013 AusIMM visiting lecturer to New Zealand, the 2018 AAG Silver Medallist and is a Fellow of the Royal Society of NSW.



**Dennis Arne FAAG**

### **The secondary environment, analytical methods and QAQC**

Dennis Arne has 40 years' experience in geology and applied geochemistry globally. He has overseen regional geochemical exploration programs in the Yukon, British Columbia, Nunavut and northern Quebec in Canada, the USA, eastern Australia, Suriname, Sudan and Laos. He was Managing Director and Principal Consultant - Geochemistry of CSA Global Canada until late 2017, General Manager and Principal Consultant – Geochemistry for Revelation Geoscience (purchased by CSA Global in 2012), Principal Consulting Geochemist with ioGlobal (now Reflex Geochemistry) and formerly Senior Geochemist with Geoscience Victoria (now Geological Survey of Victoria, Australia). Dennis is currently director and principal consulting geochemist at Telemark Geosciences and was until recently Director of Exploration for E79 Resources. He is a Fellow and former President of the Association of Applied Geochemists, is a Member and a Registered Professional Geoscientist (Geochemistry) of the Australian Institute of Geoscientists (#10064), and a registered Professional Geoscientist in British Columbia, Canada (#34686).

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## GALLERY

