

## CURRICULUM VITAE - Dennis Clifford Arne

### ACADEMIC RECORD

**Graduate Diploma** in Hydrogeology and Groundwater Management 2006

National Centre for Groundwater Management, University of Technology – Sydney

*Thesis: Groundwater Management at the Glen Wills Historic Mining Area, Victoria*

**PhD** (Geology) 1986-1990

Melbourne University, Parkville, Victoria 3052, Australia

*Thesis: Thermal Histories of Selected Mississippi Valley-type Ore Districts from Apatite Fission Track Analysis*

**MSc** (Geology) 1983-1986

Lakehead University, Thunder Bay, Ontario, Canada P7B 5E1

*Thesis: A Study of Zonation at the Nanisivik Zn-Pb-Ag Mine, Baffin Island, Canada*

**BSc Honours** (Geology) 1977-1982

University of Regina, Regina, Saskatchewan, Canada S4S 0A2

*Thesis: Petrography and Geochemistry of the Nowyak Lake Area, Northwest Territories*

### EMPLOYMENT RECORD

**02/18 – present**

***Consulting Geochemist & Director, Telemark Geosciences***

Geochemical data compilations, sampling program recommendations and design, training of field crews, implementation of sampling programs, interpretation of results and integration with other data sets; QA/QC program design, implementation and interpretation, laboratory audits; technical reporting, in-house training and short course presentations.

**07/12 – 01/18**

***Managing Director and Principal Consultant – Geochemistry, CSA Global Canada Geosciences***

Managed the CSA Global office in Vancouver, Canada, including the development of business, staffing, budgeting and corporate affairs prior to re-locating to Australia in late 2017. Responsible for the planning, execution and interpretation of geochemical data for international exploration and resource development programs. Preparation of NI43-101 technical reports and JORC Table 1 public releases. Preparation of standard operating procedures (SOP) for sampling and QA/QC at both the exploration and resource drilling stages, as well as reviews of QC data. Areas visited include Canada, Suriname, China, Sudan, Colombia, USA, Bulgaria.

**06/10 – 06/12**

***Principal Geochemical Consultant, General Manager and Director, Revelation Geoscience Ltd***

Consulting duties included evaluation of existing geochemical data, recommendations and planning for further work, conducting orientation surveys, training of field crews, timely interpretation of geochemical data as it becomes available, including field portable XRF data, and integration with geophysical and geological data. Areas of exploration experience included northern Quebec, western Ontario (Red Lake, Thunder Bay), Yukon Territory, British Columbia, Minnesota, Wyoming and Suriname.

**02/08 – 05/10**

***Principal Geochemical Consultant, ioGlobal***

Responsible for establishing the ioGlobal office in Vancouver in 2009, providing geochemical consulting services to various clients, including Geoscience Victoria, and marketing of data management services to both the exploration and environmental sectors.

**06/06 – 01/08**

***Senior Geochemist, Geoscience Victoria, Victorian Department of Primary Industries***

Contract position through the Gold Undercover initiative to undertake lithogeochemical orientation studies of central Victorian gold deposits, undertake an orientation soil survey over a deeply buried Au deposit, and compiling hydrogeochemical data obtained by CSIRO for the state of Victoria.

**01/02 – 01/09**

***Principal, Alpine Geological & Environmental Services***

Principal and sole proprietor undertaking contract work in mineral exploration, engineering geology, environmental geochemistry and hydrogeology in north-eastern Victoria, Australia.

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| <b>07/99 – 12/01</b> | <b><i>Lecturer/Senior Lecturer and Program Chair, Mining Geology, Western Australian School of Mines, Curtin University, Kalgoorlie</i></b><br>Responsible for teaching exploration geochemistry, economic geology and regolith geology at both the undergraduate and graduate level, and for conducting multi-disciplinary field excursions to major mining operations. I also undertook research into Ni-Co laterite deposits, Archean Au mineralization and Pb-Zn mineralization in the Canning Basin, WA. |
| <b>01/95 – 06/99</b> | <b><i>Lecturer in Applied Geology, Ballarat University</i></b><br>Undergraduate teaching in economic geology, applied geochemistry and field geology, and for the supervision of post-graduate students. I was also a co-manager of AMIRA International P478 on the geochronology and geochemistry of central Victorian gold deposits.                                                                                                                                                                        |
| <b>1997 – 1998</b>   | <b><i>Sessional lecturer in Economic Geology at Melbourne University</i></b>                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>12/93 - 12/94</b> | <b><i>Research Associate/Assistant Professor, Dalhousie University</i></b><br>Undertook a NSERC-funded research project into the influence of structural deformation on the thermal history of the Sverdrup Basin in Arctic Canada using apatite fission track thermochronology and vitrinite reflectance data.                                                                                                                                                                                               |
| <b>12/92 – 12/93</b> | <b><i>Killam Post-doctoral Research Fellow, Dalhousie University</i></b><br>Undertook a regional tectonic study on the timing of thrusting on the western margin of the Sichuan Basin, China using fission track thermochronology.                                                                                                                                                                                                                                                                            |
| <b>06/90 – 11/92</b> | <b><i>Geoscientist, Geotrack International, Melbourne</i></b><br>Consulting geologist in thermal history reconstruction for the international petroleum industry, including non-exclusive studies in western Canada and offshore UK.                                                                                                                                                                                                                                                                          |
| <b>12/89 – 06/90</b> | <b><i>Research Fellow, University of Melbourne</i></b><br>Studied the exhumation history of the northern Prince Charles Mountains in Antarctica using apatite fission track thermochronology.                                                                                                                                                                                                                                                                                                                 |
| <b>1986 - 1989</b>   | <b><i>Demonstrator, Melbourne University (part-time)</i></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>1983 - 1985</b>   | <b><i>Teaching Assistant, Lakehead University (part-time)</i></b>                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>1982 – 1985</b>   | <b><i>Senior Geological Assistant, Esso Minerals (summer employment)</i></b>                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>1979 – 1981</b>   | <b><i>Junior Geological Assistant, Saskatchewan Geological Survey</i></b>                                                                                                                                                                                                                                                                                                                                                                                                                                     |

#### PROFESSIONAL ASSOCIATIONS

Professional Geoscientist, British Columbia since 2010

Fellow, Councillor and Past-President of the Association of Applied Geochemists (AAG).

Member and Registered Professional Geoscientist (Geochemistry), Australian Institute of Geoscientists

#### **Journal Reviews in the last 5 years (19)**

Sustainability, 2025

Ore Geology Reviews, 2024

Minerals, 2024 (x2)

Geochemistry: Exploration, Environment, Analysis, 2024

Ore Geology Reviews, 2023 (x2)

Geochemistry: Exploration, Environment, Analysis, 2023 (x2)

Ore Geology Reviews, 2022

Geochemistry: Exploration, Environment, Analysis, 2022

Mathematical Geosciences, 2022

Journal of Geochemical Exploration, 2022

Geochemistry: Exploration, Environment, Analysis, 2021 (x3)

Journal of Geochemical Exploration, 2020

Geochemistry: Exploration, Environment, Analysis, 2020 (x2)