

Joanna Garland, PhD, FGS

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Career Outline

- Employment:**
- 2004 – present: Cambridge Carbonates Ltd., UK.** Current position: Consultant geologist and director, working on proprietary and non-proprietary projects.
 - 2002 – 2004: Statoil ASA, Norway.** Position: Activity leader and geologist in Statoil's Carbonate Research Group.
 - 1998 – 2002: Enterprise Oil Plc., UK.** Positions: Geologist in the UK New Ventures Team; development geologist on the Jotun Field, Norway and Nelson Field, UK; operations geologist in UK North Sea and West of Ireland; geologist in the International New Ventures Team.
- Core skills:**
- Carbonate and siliciclastic sedimentology and sequence stratigraphy expertise.
 - Experienced in carbonate diagenesis
 - Seismic recognition of carbonates
 - Project management skills.
 - Statistical analysis of large porosity and permeability datasets.
 - Experience with prospect evaluation and risk analysis through data-room and farm-in evaluations.
- Education:**
- 1994 – 1997:** Ph.D.: Middle to Upper Devonian (Givetian and Frasnian) Shallow-Water Carbonates of Western Europe: Facies Analysis and Cyclicity (*Durham University*).
 - 1991 – 1994:** B.Sc. (Hons.) Geology, First Class (*Liverpool University*).

Professional Experience

2004 – present: Geologist and Director, Cambridge Carbonates Ltd., UK.

- Consultant geologist working on both proprietary and non-proprietary projects
 - **Sedimentology, sequence stratigraphy and reservoir characterisation projects:** Lower Cretaceous reservoir characterisation, Kuwait; Cretaceous, Kurdistan, Iraq; Permian Khuff Formation reservoir characterisation and modelling; Cretaceous successions in Iran (including extensive fieldwork); Mesozoic and Palaeozoic exploration wells, Oman; Cretaceous sedimentology of wells in Qatar; Permian-Carboniferous reservoirs in Barents Sea; Cretaceous and Jurassic reservoirs in Qatar.
 - **Diagenetic studies:** Oman – Cretaceous; Iran – Permian and Cretaceous. Kuwait – Lower Cretaceous; Iraq – Cretaceous; Fieldwork based studies of hydrothermal dolomites in Iran; diagenesis of siliciclastics reservoirs, Australia.
 - **Seismic recognition of carbonates:** Compilation of diagnostic seismic characteristics for more than 450 proven carbonate fields, based on published seismic data.

- **New Ventures technical evaluations:** Devonian fields in Timan Pechora, Russia
- **Multiclient reports:** Carbonate Reservoirs of SE Asia
- **Exploration projects:** semi regional evaluation of the Devonian of the eastern Barents Sea
- **Corporate Best Practice Guidelines:** Carbonate reservoir characterisation, carbonate reservoirs for Business Development
- **Reservoir analogue work:** Permian reservoirs of northern Europe; Middle East Cretaceous; Miocene of Indonesia; heavy oil in carbonates
- **Analysis of large datasets** on stratigraphic trapping in carbonates and seismic characteristics of carbonates
- **Project management**
- **Fieldwork:** Cretaceous of Iran; Cretaceous of Iraq (Kurdistan); Cretaceous to recent carbonates of southern Cyprus; Miocene and Cretaceous of Italy; Cretaceous northern Spain; fractured reservoirs of North Somerset Coast UK.
- **Courses taught:** Carbonate reservoir characterisation (ranging from ½ day to 5 days); carbonate sequence stratigraphy; core workshops
- **Conferences:** convened Geological Society London “Advances in Carbonate Exploration and Reservoir analysis” conference in London, November 2010; co-convened carbonate session at IGC meeting in Oslo, August 2008.
- **Books:** Editor of Geological Society London, Special Publication V370 “Advances in Carbonate Exploration and Reservoir Analysis”

2002 – 2004: Geologist, Statoil ASA, Norway.

- Activity Leader for exploration in the Carbonates Research Programme:
 - Developed and managed the research programme for exploration in carbonates at Statoil.
 - Produced “Corporate best practice documents” for both carbonate and evaporite sequence stratigraphy and exploration play analysis in carbonate successions.
 - Peer reviews and peer assists with international exploration groups working in carbonate provinces (including Middle East, Mexico, Caspian area, Russia, Norway, Brazil, UK).
 - Analysis of large global porosity and permeability datasets to understand controls on reservoir quality of carbonates in the exploration setting.
 - Regional basin-scale analysis of Devonian carbonate plays in the Western Canada Basin.
 - Organised a fieldtrip to Mexico for Statoil staff to study the Mesozoic and Cenozoic carbonate successions in the Sierra Madre Oriental.
 - Provided geological support in data rooms for Statoil’s international New Ventures groups

1998 – 2002: Geologist, Enterprise Oil, UK.

- Geologist in the UK New Ventures Team, Aberdeen:
 - Responsible for new ventures and prospect generation in Central North Sea, in particular the Witch Ground Graben and East Central Graben.
 - Geologist for the 20th UKCS licensing round review. Principal geologist in the Witch Ground Graben, and also coordinator of a successful application in this area.
 - Provide geological support for the Business Development Group, actively working on farm-in opportunities and datarooms.
 - UK prospect Inventory coordinator in 2000.
 - Provided geological support for a major regional review of the Central North Sea, including generation of play maps and basin statistics for key plays.

- Contributed to the Enterprise Oil New Ventures Strategy, providing regional G&G review and analysis of competitors portfolios.
- Geologist for a number of non-operated and operated licenses within the New Venture Teams portfolio in 2000-2001 (14/25a, 15/19, 16/18a, 16/23N, 22/7, 22/8).

- Geologist in the Jotun reservoir development team, Stavanger.
 - International New Ventures Team, London. Regional geological overview of the Tertiary of West Africa (Morocco to the Ivory Coast).
 - North Sea Regional Team, London. Upper Jurassic regional play fairway mapping in the CNS
 - Geological Operations Team, London. Wellsite geological support.
 - Geologist in the Nelson Reservoir Development Team, Aberdeen.
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Professional Affiliations

Active member of:

- PESGB
 - AAPG
 - Geological Society London
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Other relevant skills

Working knowledge of Norwegian.