

## 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
- Project management skills.
- GIS skills, with knowledge of both ESRI and MapInfo software.
- 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*).

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### Professional Experience

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

- Consultant geologist working on both proprietary and non-proprietary projects
  - Sedimentology and sequence stratigraphy: Permian Khuff Formation reservoir characterisation and modelling; Cretaceous successions in Iran (including extensive fieldwork); Mesozoic and Palaeozoic exploration wells, Oman; Permian-Carboniferous reservoirs in Barents Sea.
  - Diagenetic studies: Oman – Cretaceous; Iran – Permian and Cretaceous. Fieldwork based studies of hydrothermal dolomites in Iran.
  - New Ventures technical evaluations: Devonian fields in Timan Pechora, Russia
  - Non-proprietary reports: Fractured carbonates; Dual porosity systems in carbonate rocks
  - 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

- Project management
- Fieldwork: Cretaceous to recent carbonates of southern Cyprus; Miocene and Cretaceous of Italy; Cretaceous of Iran; fractured reservoirs of North Somerset Coast UK.
- Courses taught: Carbonate reservoir characterisation (ranging from ½ day to 6 days); carbonate sequence stratigraphy; core workshops
- Conferences: co-convened carbonate session at IGC meeting in Oslo, August 2008.

**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 20<sup>th</sup> UKCS licensing round review. Principal geologist in the Witch Ground Graben, and also co-ordinator 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 co-ordinator 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 licences 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
- Committee member of the Petroleum Group, Geological Society London

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## **Other relevant skills**

Working knowledge of Norwegian.