

## 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, 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; 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.
  - New Ventures technical evaluations: Devonian fields in Timan Pechora, Russia
  - Multiclient reports: Carbonate Reservoirs of SE Asia; 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 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 6 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.

**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
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## **Other relevant skills**

Working knowledge of Norwegian.