

## Jennifer Keeble-Waters, PhD, MSc, FGS

**Address:** Cambridge Carbonates Ltd., 4. The Courtyard, 707 Warwick Road, Solihull, West Midlands, B91 3DA, UK.

**Contact number:** +44 7786 172 227 (cell), +44 121 7058472 (office)

**Emails:** [jen@cambridgecarbonates.co.uk](mailto:jen@cambridgecarbonates.co.uk)




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### Career Outline

**Employment:** **2010 – present: Cambridge Carbonates Ltd., UK:** Consultant sedimentologist, working on proprietary and multi-client projects.

**2004 – 2005: Mouchel Parkman., UK:** Environmental Geologist, working on site investigations and desk study reports.

**Core skills:**

- Carbonate and siliciclastic sedimentology expertise.
- Regional knowledge of Mediterranean, Middle East and North Sea reservoirs.
- Experience with core logging and the identification of ichnological, sedimentological and diagenetic features including fossils.
- Proficiency in sequence stratigraphy and carbonate diagenesis.
- Experience in microfacies analysis through thin section observations and point counting.
- Interpretation of stable isotopes (carbon & oxygen), strontium and sulphur isotopes, fluid inclusion analysis, cathodoluminescence, scanning electron microscopy and fracture surface images.
- Petrog, Adobe Illustrator CS4, Photoshop, EndNote X4 and Excel skills. Currently learning to use CoreCad software.

**Education:** **2005 – 2010:** Ph.D.: Deciphering climatic controls on sedimentation in a tectonically active area, Cyprus. (*Durham University*).

**2003 – 2004:** M.Sc. Applied Environmental Geology (*Cardiff University*)

**2000 – 2003:** B.Sc. (Hons) Geology, 1<sup>st</sup> (*Liverpool University*)

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### Professional Experience

**2010 – Present: Geologist, Cambridge Carbonates Ltd., UK.**

- Consultant Geologist working on both proprietary and non-proprietary projects
  - Sedimentology, sequence stratigraphy and reservoir characterisation projects: Lower Cretaceous, Kuwait; Cretaceous, Kurdistan, Iraq; Paleocene to Eocene, Pakistan; Permian Zechstein, Poland; Permian Zechstein, Offshore Norway. These projects involved core logging, microfacies analysis through thin section observations and associated reporting. The provision of a core workshop and presentation was required as a final phase for a number of these projects.
  - Multiclient reports: compilation of a selection of palaeogeographic maps for the Eastern Mediterranean, produced in conjunction with detailed short reports per map. This includes the synthesis of data from the public domain to produce maps at a 3<sup>rd</sup> order systems tract level. This work has also involved a presentation and the exchange of ideas with a small energy company.
  - Diagenetic studies: A synthesis of the current understanding of the diagenetic processes and resulting reservoir quality of the Permian Rotliegend sandstones within K and L blocks, offshore

Netherlands. The synthesis was based on reports from the client's database plus a bibliographic review. The identification of similarities and controversies between the two data sets helped to identify areas of limited understanding that require further investigation. A pre-diagenetic scheme was also established and Phase 2 was subsequently initiated. Phase 2 is a large-scale and long-term project that incorporates the analysis of 20 wells. It involves detailed petrographic analysis, the development of paragenetic sequences plus quantitative and qualitative analyses. The primary aim of the study is to provide a detailed understanding of the spatial and stratigraphic heterogeneities of diagenesis within the K and L blocks, with a particular focus on the diagenetic phases that significantly impact the reservoir properties.

- Currently compiling a field trip which will take place in Cyprus. The field trip offers a basic understanding of the Cenozoic sedimentary systems in Cyprus, with the objective of providing an overview of the potential analogues to offshore deposits in the Cyprus Basin. The Eastern Mediterranean Basins are becoming increasingly important with a number of recent and notable gas discoveries.
- Study of core including the assessment and collation of samples for chemical analysis ( $Sr^{87}/Sr^{86}$ ,  $\delta C^{13}$  and  $\delta O^{18}$ ) from the Mishrif Formation, Rumaila Field, Iraq.
- Key Fieldwork: Carboniferous carbonate platform and Silurian turbidites, Llangollen, North Wales; Carboniferous, Cantabrian Mountains, Spain; Cretaceous to Recent clastic and carbonate systems, Cyprus.

#### **2003 – 2004 Environmental Geologist, Mouchel Parkman., UK**

- Undertook numerous desk studies. These included the collation of data through fieldwork, the analysis of chemical results using packages such as CLEA and the supervision of a multitude of site investigations.

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### **Professional Affiliations**

Active member of:

- Geological Society of London
- International Association of Sedimentologists

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### **Other relevant skills**

- Basic German.
- Rosetta Stone Level 1 Greek
- Qualified St. Johns Ambulance First Aider