

Jennifer Waters, PhD, FGS

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Career Outline

Employment: **2010 – present: Cambridge Carbonates Ltd., UK.** Current position: Consultant geologist, working on proprietary and non-proprietary projects.

2004 – 2005: Mouchel Parkman, UK. Position: Environmental Geologist

Core skills:

- Carbonate and siliciclastic sedimentology and sequence stratigraphy expertise.
- Experience with core logging and the identification of palynological, sedimentological, diagenetic and fossil features.
- Microfacies analysis through thin section observations and point counting
- Adobe Illustrator CS4 skills

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

- The late Neogene to Quaternary of Cyprus is considered to be a tectonically active period coeval with major climatic change. Uplift, associated with the activities of the supra-subduction zone to south of island was concomitant with global cooling, the expansion of the Northern Hemisphere Ice Sheets and the Middle Pleistocene Transition. Despite the globally significant climatic events during the period of deposition, the Plio-Pleistocene climatic record in Cyprus is largely unknown and for the most part ignored. The objective of this study was therefore to investigate the stratigraphical record of the 'fore-arc', with the intention of elucidating the mechanisms controlling the cyclicity on sedimentation, in an attempt to understand the uplift history.
- Sequence stratigraphical, palaeohydraulic, micropalaeontological, geochemical and architectural analyses were conducted to provide an understanding of the sedimentary cyclicity, at key stratigraphical intervals. Correlation of the results to global patterns provided a robust method for deducing climatic controls on sedimentary deposition, thus leaving the residual record of tectonic uplift.

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

- This MSc was a vocational course and included the study of Land Contamination and Remediation, Hydrogeology, Environmental Law, Geophysics and Remote Sensing, Soil Mechanics, Quaternary Geology, Environmental Geochemistry and Geotechnical Engineering. The dissertation thesis involved working with a firm of Consulting Engineers for 6 months on an environmental project. The aim was to determine if landfill gas was migrating from a former landfill site to an area of proposed development. Tasks included the collection of data from gas monitoring boreholes; the analysis of the gas readings and ultimately to determine what protection measures would be required in the proposed developments.

2000 – 2003: B.Sc. (Hons.) Geology, First Class (*Liverpool University*).

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 of Lower Cretaceous stratigraphy in Kuwait. This project involved core logging, microfacies analysis through thin section observations and associated reporting.
 - Sedimentology, sequence stratigraphy and reservoir characterisation of Cretaceous stratigraphy in Kurdistan, Iraq. This project involved core logging, microfacies analysis through thin section observations and associated reporting.
 - Multiclient reports: Carbonate Reservoirs of SE Asia. Involved collation of data from the public domain and characterisation of regional basin types.
 - Palaeogeographic maps: Eastern Mediterranean. Synthesis of data from the public domain to produce maps at a 3rd order systems-tract level.
- Key Fieldwork and Field trips
 - Llangollen, North Wales: Palaeoenvironmental, structural and mapping study of a Carboniferous Carbonate Platform and Silurian turbidites.
 - Spain (northern and southern): Mapping exercise in the Cantabrian Mountains and investigations of the regional geology.
 - Cyprus: Cretaceous to Recent studies on both clastic and carbonate systems
 - Namibia, Africa: Field assistant to a Ph.D. student. Investigation of Early Cretaceous ignimbrites of the Etendeka Province, Namibian Desert.
 - British Columbia, Canada: Understanding alluvial fans and debris flows

2003 – 2004: Environmental Geologist, Mouchel Parkman, UK.

- Environmental Geologist:
 - Wrote desk study reports.
 - Analysed chemical results using packages such as CLEA.
 - Collected data through fieldwork.
 - Supervised numerous site investigations.

Professional Affiliations

Active member of:

- Geological Society London

Other relevant skills

- Basic German
- Rosetta Stone Level 1 Greek
- Learning Spanish (Mexican)