

Dr Roger HIGGS

Consultant Geologist, Sedimentologist & Sequence Stratigrapher

with particular experience in Venezuela

3-page CV updated to 30th Sept 2017

PERSONAL

Age 63

Date of birth 12-12-53

Place of birth Chalfont St Giles, England, UK

Nationality British & Canadian

Passport number 510512545 (UK), expiry 18-5-23

Languages Fluent English & Spanish; rusty French

Marital status Married

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PROFESSIONAL

Profession Clastic Sedimentologist & Sequence Stratigrapher; independent consultant since 1987; incorporated as “Geoclastica Ltd” in 1998 (see below)

Education

BSc Hons	Petroleum Geology	London, UK	1975
MSc	Sedimentology	Calgary, Canada	1977
DPhil	Sedimentology	Oxford, UK	1986

Memberships AAPG

Career summary:

1977-1982 (5 years) **Petroleum Explorationist**, Canada:
1977-78, Imperial Oil Ltd (Exxon), Calgary. Exploration Geologist. 1 year of diverse training, incl. a 6-month seismic interpretation project (Labrador Sea)
1978-82, Aquitaine Co. of Canada Ltd & successor Canterra Energy Ltd, Calgary. Exploration Geologist, rising to Exploration Supervisor, Peace River Arch District, supervising 2 geologists, 2 geophysicists, 1 technician

1982-1986 (4 years) **Doctoral research**, Department of Geology, University of Oxford, UK.
Thesis: 'A Facies Analysis of the Bude Formation (Lr Westphalian), SW England'
Supervisor: Dr Harold G. Reading

1987-present (30 years) **Consultant** in clastic sedimentology & sequence stratigraphy. Founder, managing director & sole employee of consultancy **Geoclastica Ltd**, UK, registered 1998
<http://www.geoclastica.com/>

Clients: Beicip-Franlab; BHP; British Columbia Ministry of Energy; Canadian Petroleum; Chevron; Ecopetrol; Elf; Emerald; Finavera; Geoquest; Geological Survey of Canada (2 yrs); IFP; Intera; Jordan NPC; Mobil; Noble; Petróleos de **Venezuela** (PDVSA, incl. 3 yrs in Caracas 1990-93 & twelve 5-week visits to Puerto La Cruz 2010-12); PetroSA; Polish Oil & Gas Institute; Preussag; Repsol; Schlumberger; Talisman; Tectonic Analysis Inc.

Basins: 26 basins in 15 countries on 6 continents

Projects: Exploration & development projects, mainly involving ...
-sequence stratigraphic correlation of well logs*
-facies analysis of outcrops, cores & image logs*
-sandstone thin-section diagenetic analysis (porosity prediction)
-synthesis of tectono-sedimentary evolution of basins (e.g. Higgs 2009 below)

* = including sedimentological & sequence-stratigraphic interpretation of Orinoco Heavy Oil Belt and other areas of **Venezuela**, for PDVSA

Course (5 days) presented on Clastic Facies Analysis & Sequence Stratigraphy, in **Venezuela** (annually 2003-07, 2011), Colombia, France, Malaysia

Major non-exclusive reports on **Venezuela** & Trinidad tectono-stratigraphic evolution, sold to BP and BHP (2005)

Field trips led in **Venezuela** & Trinidad, including an annual 6-day excursion for PDVSA (2006-09); also Bude Formation (flysch turbidites) UK

Bude Geological Walks for the general public (2009-present)
http://www.tripadvisor.co.uk/Attraction_Review-g190804-d1573061-Reviews-Geoclastica-Bude_Cornwall_England.html

SELECTED PUBLICATIONS

- 1979 Quartz-grain surface features of Mesozoic-Cenozoic sands from the Labrador and western Greenland continental margins.
Journal of Sedimentary Petrology, 49, 599-610.
- 1988 Fish trails in the Upper Carboniferous of south-west England.
Palaeontology, 31, 255-272.
- 1990 Sedimentology and tectonic implications of Cretaceous fan-delta conglomerates, Queen Charlotte Islands, Canada.
Sedimentology, 37, 83-103.
- 1991 The Bude Formation (Lower Westphalian), SW England: siliciclastic shelf sedimentation in a large equatorial lake.
Sedimentology, 38, 445-469.
- 1996 A new facies model for the Misoa Formation (Eocene), **Venezuela**'s main oil reservoir.
Journal of Petroleum Geology, 19, 249-269.
- 2004 Ross and Bude Formations (Carboniferous, Ireland and England): reinterpreted as lake-shelf turbidites.
Journal of Petroleum Geology, 27, 47-66.
- 2009a Caribbean-South America oblique collision model revised. **VENEZUELA SYNTHESIS**
Geological Society of London, Special Publication 328, 613-657.
- 2009b The vanishing Carib Halite Formation (Neocomian), Colombia-**Venezuela**-Trinidad prolific petroleum province.
Geological Society of London, Special Publication 328, 659-686.
- 2010a Why do siliciclastic shelves exist? How do they differ from "ramp margins"? New sequence stratigraphic aspects vital for petroleum exploration.
AAPG Search and Discovery Article #40527, 12 p.
- 2010b Discussion of 'Hybrid sediment gravity flows - classification, origin and significance'.
Marine and Petroleum Geology, 27, 2062-2065.
- 2010c Discussion of 'Hummocky cross-stratification-like structures in deep-sea turbidites: Upper Cretaceous Basque basins (Western Pyrenees, France)'.
Sedimentology, 58, 566-570.
- 2014 Shelf model for "deep-sea" flysch turbidites and implications for outcrop analogs.
AAPG Search and Discovery Article #70157, 16 p & poster (3 sheets).

For more, please visit <http://www.geoclastica.com/RogerHiggsCV.htm>