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## GEOLOGIST

### EXPERIENCES

2003-2005    **Researcher** – University of Gent (Renard Centre of Marine Geology, Belgium)

Study on the marine aggregate extraction

- treatment and interpretation of acoustic data with Promax, Isis, Neptune and Cfloor software
- study of marine aggregate prospecting and extraction techniques
- oceanographic cruises

1999-2003    **PhD** - University of Bordeaux 1 (Geology and Oceanography department, France)

The Aquitaine shelf Neogene and Quaternary stratigraphy based upon the interpretation of HR and VHR seismic profiles, sonar imaging, bathymetry and cores

- treatments of seismic profiles (monotrace, multitrace and sparker) by SITHERE software (filter, mute, multiple attenuation, swell filter, gain), treatments of imaging sets by CARAIBES software
- stratigraphic model, synthesis of documents
- oceanographic cruises
- teaching 30 hours (geology)

1998    **Researcher** - Department DRO/GM of IFREMER-Brest (France)

Comparison between the results of manual and software interpretation of seismic profiles

- seismic profiles interpretation in order to create isopach and paleo-bathymetry maps
- oceanic cruise in Gabon

1997    **Technician** - Department DRO/GM of IFREMER-Brest (France)

Treatment procedures of seismic and imagery with the use of SITHERE and CARAIBE softwares

1996    **Technician** - Atlantique Ingenieries Systemes (Merignac, France)

Study of constructive basement areas: analysis of ground types, properties and mechanical behaviour of rocks

1996    **Technician** - Conseil Général de la Gironde, underground quarry office (Bordeaux, France)

Synthesis of documents on dangerous areas situated above quarry

### NON SCIENTIFIC TRAINING PERIODS

- management
- innovation, creativity and communications
- documentation, html pages creation

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**Languages** : French (mother language), English (medium), Spanish (notion)

**Computer** : good control of computer tool PC : excel, ArcView GIS, PowerPoint, Coreldraw; environment UNIX; web

### FORMATION

1998 **DEA** Oceanic Environments and Paleo-Environments, Geology option, University of Bordeaux 1

1997 **Maitrise** Oceanic Environments and Paleo-Environments, Geology option, University of Bordeaux 1

1996 **Licence** Earth Sciences, applied geology, University of Bordeaux 1

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## **PUBLICATIONS, PRESENTATIONS AND CONFERENCES**

- Bellec, V.** (2004). A case study: the Kwinte Bank. Bathymetry and Backscattering. *Second workshop on the multibeam echosounder Kongsberg Simrad EM1002 installed on board of the RV Belgica*, 30 April 2004, Brussels
- Bellec, V. & Van Lancker V.**, (2004). Review of prospecting technology and techniques, *Scientific Report European Marine Sand and Gravel Resources (EUMARSAND)*, 49p.
- Bellec, V. & Van Lancker V.** (2004). Review of extraction techniques. *Scientific Report European Marine Sand and Gravel Resources (EUMARSAND)*, 16p.
- Bellec V.** (2003) Evolution morphostructurale et morphosédimentaire de la plate-forme Aquitaine depuis le Néogène / Morphostrutural and morphosedimentary evolution of the Aquitaine shelf since the Neogene, PhD manuscript, University of Bordeaux 1, 306 p.
- Bellec V., Cirac P. and Garlan T.** (2003). Aquitaine shelf soft cover. 9<sup>th</sup> *French Congress of sédimentology*, Summary Book, ASF, 14-16 october 2003
- Le Bot S., Van Lancker V., **Bellec V.** and the MAREBASSE & EUMARSAND teams (2003). Defining a methodological approach for the assessment of environmental impacts related to marine aggregate extraction. A case study from the Kwinte Bank, Belgian continental shelf. 9<sup>th</sup> *French Congress of sédimentology*, Summary Book, ASF, 14-16 October 2003, p 296
- Marsset T. and **Bellec V.** (2002). Late Pleistocene-Holocene deposits of the Rhône inner continental shelf (France): detailed mapping and correlation with previous continental and marine studies, *Sedimentology*, Volume 49, Issue 2, April 2002, p 255-276
- Bellec. V. and Cirac P.** (2001). The sedimentary cover of South-Aquitaine shelf. 8<sup>th</sup> *French Congress of sédimentology*, Summary Book, ASF Orléans Publication (France)
- Bellec V. and Cirac P.** (2001). The quaternary sedimentary cover of Aquitaine shelf. *Congress of Union des jeunes Océanographes*. Arcachon. May 2001
- Savoie B., Cochonat P., Apprioual R., Bain O., Baltzer A., **Bellec V.**, Beuzart P., Bourillet J-F., Cagna R., Cremer M. et al. (2000). Structure and recent evolution of the Zaire deep-sea fan: preliminary results of the ZaïAngo 1 & 2 cruises (Angola–Congo margin). *Comptes Rendus de l'Académie des Sciences - Séries IIA - Earth and Planetary Science*, Volume 331, Issue 3, 15 August 2000, Pages 211-220
- Faugères J.-C., Gonthier E., Cirac P., Mulder T., Castaing P., **Bellec V.** (2000). Origin of giant sediment waves situated on Landes shelf (Bay of Biscay). 7<sup>th</sup> *international symposium " Bay of Biscay Oceanography "*, 4-6 avril 2000, Biarritz, Acts of Symposium, 4-6 april 2000, Biarritz, Actes du colloque, éd. IFREMER, p. 26-32
- Cirac P., Manau F and **Bellec V.** (2000). Sedimentary forms of Aquitaine internal shelf recognized by the acoustic methods. 7<sup>th</sup> *international symposium " Bay of Biscay Oceanography "*, 4-6 april 2000, Biarritz, Acts of Symposium, ed. IFREMER, p. 19-25
- Bellec. V. and Cirac P.** (1999). Morphostructural evolution of Aquitaine shelf durant the Néogène and the Quaternary. 7<sup>th</sup> *French Congress of sedimentology*, Summary Book, ASF Paris Publication, 33, p. 27