

CURRICULUM VITAE - MAY 2009

DR EMILY DOLAN

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Dr Emily Dolan works as a freelance consultant on projects relating to biodiversity, conservation, and sustainable management of marine ecosystems, in particular those concerning the deep and high seas.

Presently a research associate for Dr Sybille van den Hove (Median SCP), Emily Dolan works on the sustainable management work packages for the EU-funded projects, HERMES (Hotspot Ecosystem Research on the Margins of European Seas) and HERMIONE (Hotspot Ecosystem Research and Mans Impact on European Seas).

Dr Emily Dolan is currently based in Ghent, Belgium.

WORK AND DOCTORATE

Jan 2009 - Pres **Research Associate** *Median SCP; FP6 HERMES Project; FP7 HERMIONE Project*

- Research and report on existing governance regimes, principles, policy instruments and ecosystem-based management tools and strategies in relation to the conservation of deep-sea ecosystems and their sustainable uses;
- Interface between scientists, policy makers and other stakeholders;
- Organise and attend integrative science-policy meetings and conferences on international and European level (including European Commission);
- Communicate marine science-policy related issues to the public.

2004 - 2008 **PhD** *National Oceanography Centre (NOCS), UK* *Institute of Zoology (IOZ), UK*

Phylogenetics, systematics and biogeography of deep-sea Pennatulacea (Anthozoa: Octocorallia): Evidence from molecules and morphology

Supervisors Prof Paul Tyler (NOCS) Dr Alex Rogers (IOZ) Dr David Billett (NOCS)

Project:

- Development and implementation of molecular protocols for the genetic analysis of deep-sea Pennatulacea;
- Evolutionary history and systematics of the group;
- Revision of the systematics of the genus *Umbellula* with descriptions of new species;
- A study of biogeography, radiation and adaptive morphology.

2004 - 2008 **Teaching Assistant** *University of Southampton, UK*

- Responsible for demonstrating technical practical work to BSc and MSc students in the laboratory (histological techniques; computer-based image analysis; taxonomy), and teaching and guiding students in the field and with research projects.

Mar - Oct 2004 **Research Assistant** *DEEPSEAS Group, National Oceanography Centre, UK*

- Worked independently on the identification of seamount and benthic trawl samples, and compiling and maintaining a database.

Jan - Mar 2004 **Research Technician** *Plymouth Marine Laboratories, Plymouth, UK*

- Employed specifically to analyse low nutrient seawater samples using the Autoanalyser and NanoMolar Ammonium Analyser for the Atlantic Meridional Transect project.

Jul - Aug 2001 **Marine Ecologist** *'Operation Wallacea', SW Sulawesi, Indonesia*

- Coral reef conservation by mapping and surveying reefs, and assessing diver damage.

UNIVERSITY DEGREE

1999 - 2003 **Oceanography Masters** *University of Southampton, UK* (First Class with Honours)

Areas of study included: marine invertebrates; benthic ecology; deep-sea ecosystems; reproduction and developmental biology; environmental physiology; biological statistics.

- **4th Year Research Project**

Tyler, Dolan *et al* (2007) Gametogenic periodicity in the chemosynthetic cold-seep mussel, "*Bathymodiolus*" *childressi*.

- **3rd Year Research Project**

Gage, Dolan *et al* (2004) Growth, reproduction and possible recruitment variability in the abyssal brittle star *O. hastatum* (Ophiuroidea: Echinodermata) in the NE Atlantic.

ACADEMIC PUBLICATIONS

Peer-Reviewed Papers

Dolan E, P Tyler, A Rogers (in prep). Phylogeny and systematics of deep-sea sea pens (Anthozoa: Octocorallia: Pennatulacea).

Dolan E, A Rogers, P Tyler (in prep). A revision of the sea pen genus *Umbellula* (Pennatulacea: Umbellulidae) using morphological, molecular and distributional data, with descriptions of three new species.

Tyler P, C Young, E Dolan, S Arellano, S Brooke, M Baker (2007). Gametogenic periodicity in the chemosynthetic cold-seep mussel, "*Bathymodiolus*" *childressi*. *Marine Biology*, 150 (5), 829-840.

Gage P, R Anderson, P Tyler, R Chapman, E Dolan (2004). Growth, reproduction and possible recruitment variability in the abyssal brittle star *Ophiocten hastatum* (Ophiuroidea: Echinodermata) in the NE Atlantic. *Deep Sea Research I*, 51 (6), 849-864.

Conference Abstracts

Dolan E, P Tyler, A Rogers (2008). A molecular phylogenetic analysis of deep-sea Pennatulaceans. HERMES Annual Meeting, Carvoeiro, P (28 Mar – 4 Apr 2008), book of abstracts, p89.

Dolan E, P Tyler, A Rogers (2006). Taxonomic revision of deep-sea Pennatulacea. 11th International Deep-Sea Biology Symposium, Southampton, UK (9-14 Jul 2006), book of abstracts, p108.

Tyler P, C Young, E Dolan, S Arellano, S Brooke, M Baker (2006). Gametogenic periodicity in the chemosynthetic mussel genus '*Bathymodiolus*' *childressi*. 11th International Deep-Sea Biology Symposium, Southampton, UK (9-14 Jul 2006), book of abstracts, p163.

Dolan E, P Tyler, A Rogers (2006). Phylogenetic study of deep-sea Pennatulacea: Preliminary Results. Challenger Conference, Scottish Association for Marine Science, Oban, UK (11-15 Sept 2006), book of abstracts, p112.

OTHER ACTIVITIES

Mar 2008 **Media Training Workshop** *Carvoeiro, Portugal*

A two-day workshop on communicating science through the media (radio, TV, newspaper and magazine articles, podcasts, etc.).

Apr 2005 **International Workshop on the Taxonomy of Octocorals** *University of Kerala, India*

A six-day course combining both lectures and laboratory work, which taught the key skills required for the identification of octocorals.

- Mar 2005 **Electron Microscopy Course** *Southampton General Hospital, Southampton, UK*
A 5-day course on the preservation and preparation of animal tissue for Transmission Electron Microscopy and Scanning Electron Microscopy, and operating the microscopes.
- Conferences Attended several conferences including:
Ocean Stewardship Conference (National Oceanography Centre, Southampton, UK);
HERMES Annual Meetings (Carvoeiro, Portugal);
Challenger Conference (Scottish Association for Marine Science, Oban, Scotland, UK);
11th Deep-Sea Symposium (National Oceanography Centre, Southampton, UK).

RESEARCH CRUISES

- Jan - Feb 2007 **RRS James Clarke Ross** *British Antarctic Survey, Cambridge, UK*
An expedition to Marguerite Bay, Antarctica, to investigate depths up to 3500m for the first time with the use of the deep-diving ROV *Isis*.
- Nov 2006 **RV Western Flyer** *Monterey Bay Aquarium Research Institute, Moss Landing, USA*
A collaboration with Dr James Barry (MBARI) using the ROV *Tiburon* to deploy experimental units for recruitment studies and collect samples for molecular analysis.
- May 2006 **RRS Charles Darwin** *HERMES Project, National Oceanography Centre, Southampton, UK*
The objective of the cruise was to investigate the benthic fauna of the Portuguese canyons by means of SHRIMP video recordings and sea-bed sampling (trawls and sediment coring).
- Nov 2003 **RV Seward Johnson** (Harbour Branch) *Oregon Institute of Marine Biology, Oregon, USA*
A cruise co-ordinated by Dr Craig Young to survey cold-seep communities in the Gulf of Mexico, with the aid of the *Johnson Sea Link* submersible.

OTHER SKILLS AND QUALIFICATIONS

- Certifications** Qualified PADI Rescue Diver
Sea Survival course
Full Driving Licence
- Languages** English (mother tongue); French, Spanish, Dutch (basic knowledge)

INTERESTS

I enjoy warm- and cold-water diving, snorkelling, cycling and kiting. I am also a keen hiker and I love observing and learning about nature.