



SAM DUPONT

From Sweden to France



Project: **Effects of global warming and ocean acidification on marine ecosystems**

Research topic: **Climate**

Swedish Institution: **University of Gothenburg**

French Institution: **Ecole Nationale Supérieure Paris / Institut Albert Fessard**

Dates of mobility: **21/11/2014 to 26/11/2014**

Program: **SFVE-A (ex-FRÖ)**



PRESENTATION

[Sam Dupont](#) is a Senior Lecturer at the [Sven Lovén Centre for Marine Infrastructure](#) and the [Department of Biological and Environmental Sciences](#) at the [University of Gothenburg](#). He obtained his PhD in Marine Ecology in 2002 from the [University of Louvain](#). His research interests center around the impacts of increased CO₂ and related changes, such as global warming and ocean acidification, on marine species and ecosystems.

ACTIVITIES IN FRANCE

Dupont visited the Neurobiology and Development lab at the [Institut de Neurologie Albert Fessard](#), where he met and discussed with Dr. [Jean-Stéphane Joly](#). They are collaborating on a project on 3D imaging of neural regeneration after chemical degeneration in a marine chordate, on which they produced a manuscript of collected data testing the impact of ocean acidification. On top of that, they drafted a new research project on neuronal regeneration following amputation. They also prepared a session on the role of model organisms in ecological research for the next [EFOR meeting](#).

He then met Dr. [Emmanuelle Jacquin](#) from the laboratory [Physiologie de l'Insecte Signalisation et Communication](#) at the Institute of Ecology and Environmental Sciences ([IEES](#)), who is an expert on the molecular basis of olfaction in insects and similar sensory mechanisms. They discussed how this expertise can be applied to a project at the Sven Lovén Centre for the sequencing of the genome of a marine invertebrate able to sense chemicals from seawater. Subsequently, he visited Dr. [Jong Seto](#) at the [Department of Chemistry](#) of the Ecole Normale Supérieure ([ENS](#)) in Paris. They discussed chemical aspects of calcification. Finally, he met with Dr. [Kirsten Isensee](#), marine biologist at the [Intergovernmental Oceanographic Commission](#) of the [UNESCO](#). They further coordinated their joint work as members of the steering committee of the Global Ocean Acidification Observing Network ([GOA-ON](#)) and the Ocean Acidification International Coordination Centre ([OA-ICC](#)).