

# **Interspill 2015 – Science workshops**

## **Spill Impact Assessment (SW 4)**

### **Biographies**

#### **Guy Claireaux (Chairman)**

Guy Claireau is professor at the University of Brest (France). He has research interests in fish physiology and energetics with implications in the fields of fisheries science, evolutionary biology, ecotoxicology and aquaculture. He got his PhD in 1988 from the University of Brest. He held various positions as a postdoc in Canada from 1989 to 1993 and was research scientist at the Centre National de la Recherche Scientifique (CNRS) in France from 1997 to 2007, when he was appointed professor at Brest University, his current position.

Guy Claireau has a wide experience in spill impact assessment and more specifically coordinated a multidisciplinary research project on assessing the impact of the Erika oil spill on the populations of common sole in the Northern Bay of Biscay. He was involved in the ANR-funded DISCOBIOL (coordinated by Cedre) and is currently coordinating the Fish Health project supported by the ITOPF-R&D award 2012 with CEDRE, the University of British Columbia (Canada) and CNR (Italy) as partners.

His common objective in these 3 research projects is to provide the mechanistic understanding needed to develop the notion of, and approach to, health in the field of aquatic ecotoxicology, to assess the health status of a fish population and provide reliable predictions about how oil or dispersant-treated oil may influence fish population production and dynamics.

#### **Stéphane Le Floch (alternate Chairman)**

A chemist by training, Stéphane Le Floch has been working at Cedre since 1995, where he was initially in charge of bioremediation techniques for shoreline clean-up following an oil spill. He thus implemented various field experiments that enabled him to become familiar with oil chemistry and the analytical techniques used to assess biodegradation activity and oil impact. From 1998 to 2000, Stéphane Le Floch acted as a supervisor on behalf of the oil company Elf Petroleum Norge in Norway, where he oversaw Aquamiljo team works contracted by Elf on environmental monitoring following oil and HNS pollution (use of biomarkers to monitor pollutant impact). From 2000 to 2005, back at Cedre, he shared his time between the Emergency Response Department and the Research and Development Department where he was in charge of HNS activities. From 2005 to 2013, in addition to his

coordination activity on the HNS topic, he was in charge of implementing biological procedures at Cedre to assess the environmental impact of pollutants and to define the ecotoxicity of substances in accordance with OSPAR regulations.

In 2014 he was appointed Manager of the Research Department in the Scientific and Technical Division.

Since January 2008, Stéphane Le Floch has been the French representative at the GESAMP working group on the Evaluation of the Hazards of Harmful Substances Carried by Ships (GESAMP/EHS).

### **Mark Kirby**

Mark is Cefas' Programme Leader for their portfolio of Emergency Response and Offshore Industries research and advice. His background is in ecotoxicology with over 25 years experience working on a range of studies pertaining to aquatic pollution. Main focus of work has been on the toxicological impacts of oil and chemical spills and the assessment of appropriate methods of mitigation (e.g. use of dispersants etc). He has been involved in a number of emergency response incidents over the last 20 years from the Sea Empress to the MSC Napoli. Mark is a key advisor to the UK government and industry on the testing and approval of oil spill treatment products and the impacts of accidental spills.

Interests include the study and broad understanding of pollutants in the marine environment with particular interests in oil, oil dispersants, endocrine disruptors, PAH, hydrocarbons, pesticides etc. including the use of biological sentinel species, biomarkers and bioassays to monitor the impacts of pollutants. He is the chair and co-ordinator of the Premium project (see [www.cefas.defra.gov.uk/premium](http://www.cefas.defra.gov.uk/premium) ), a collaboration to establish effective post-spill monitoring and impact assessment, across 22 UK government bodies with growing international, academic and industry links.

### **Thierry Baussant**

Thierry Baussant is a marine biologist with a PhD obtained in 1993. He started to work in the field of ecotoxicology in 1996 and is currently chief scientist at the department "Environment" of the International Research Institute of Stavanger (IRIS-Biomiljø) in Norway. In his work, he has been participating in several laboratory studies with complex pollutant mixture. His experience includes exposure system development, bioaccumulation and toxicokinetics, relationship between bioaccumulation and biological responses (biomarkers) in several species including temperate and Arctic, deep-sea corals and early-life stages. In response to IRIS strategy, his activities also encompassed projects with sensing technologies for real-time environmental monitoring. His main research activities are related to oil and gas offshore industries