

PHIL SMITH BSc, PhD, CEnv, CChem, MRSC, MCIWEM
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KEY EXPERIENCE

Dr Phil Smith is a Chartered Chemist and Chartered Environmentalist with 35 years of experience in ecological surveys and assessment of the impacts of contaminants (metals and organics) on water, sediments, invertebrates and fish. Key areas of experience are:

- Ecological and chemical surveys of fresh, estuarine and marine waters.
- Monitoring the impacts of discharges, engineering works & dredging on the aquatic environment.
- Assessing ecological and chemical aspects of pollution.
- Conservation assessment of aquatic habitats.
- Oil spill sensitivity mapping and contingency planning.
- Assessment of contaminated sediments.
- Environmental Impact Assessments and EIA Training.
- Expert Witness on water pollution, fish and shellfish kills and related issues.

ACADEMIC QUALIFICATIONS

BSc Chemistry and Environmental Science (First), University of Wales Institute of Science and Technology (UWIST), Cardiff. (1978). Specialised in freshwater biology and ecology, analytical chemistry, organic chemistry and radiochemistry.

PhD 'Environmental Effects of Discharges to the Littoral Zone of the Humber Estuary'. Department of Zoology, University of Hull. (1982). Research included studies of benthic invertebrates at polluted & unpolluted sites; analysis of metals in fauna & sediments; analysis of hydrocarbons in sediments; invertebrate toxicity testing & satellite remote sensing of discharges.

PROFESSIONAL QUALIFICATIONS

Chartered Chemist (CChem) qualification from the Royal Society of Chemistry (1981)
Member of the Chartered Institution of Water & Environmental Management (MCIWEM) (1988)
Chartered Environmentalist (CEnv) from the Society for the Environment (2004)

MEMBERSHIP OF PROFESSIONAL AND SPECIAL INTEREST GROUPS

Listed on the National Policing Improvements Agency (NPIA) Database for Expert Advisors
Member of the Royal Society of Chemistry (MRSC)
Member of the Chartered Institution of Water and Environmental Management (MCIWEM)
Member of the Marine Biological Association and Freshwater Biological Association
Member of the Estuarine and Coastal Sciences Association
Member of the British Ecological Society

EMPLOYMENT

Launched Aquatic Environmental Consultants in 1982 to provide industry, engineering consultancies and regulatory organisations with advice on monitoring and predicting the effects of discharges, spills and

engineering works on aquatic ecosystems. In January 2004 the name of the consultancy was changed to Aquatonics Ltd.

SELECTED PAPERS, PUBLICATIONS AND PRESENTATIONS.

Smith, P R J (1982). Environmental Effects of Discharges to the Littoral Zone of the Humber Estuary. PhD Thesis, Department of Zoology, University of Hull.

Smith, P R J and Jones, N V (1983). Routine biological monitoring of estuarine intertidal sites. Society for Experimental Biology conference, University of Hull.

Smith, P R J (1985). Remote sensing from satellites and aircraft and its application in coastal and estuarine studies. Field Studies Council Staff Course, Slapton Ley.

Jones, N V and Smith, P R J (1986). Temporal changes in heavy metals and other parameters of intertidal sediments at a site in the Humber estuary (UK). Water Science Technology, Vol 18, 324.

Smith, P R J (1991). Environmental Impact Assessment. Royal Society of Arts meeting on 'The Future of Britain's Estuaries' 13-14 February 1991.

Smith, P R J (1995). Exploration for hydrocarbons in Lyme Bay. Presentation to ProGeo 95 Conference 'Environmental Assessment - the Role of the Geologist'. 7 July 1995.

Smith, P R J (1998). Environmental Impacts of Offshore Oil and Gas. Plenary Lecture at a meeting on Marine Pollution held at the King Fahd University of Petroleum and Minerals, Dhahran, Saudi Arabia. 26-27 April 1998.

Smith, P R J, Perrett, J, Garwood, P and Moore, G (1999). Two additions to the UK marine fauna: *Desdemona ornata* Banse, 1957 (Polychaeta, Sabellidae) and *Grandidierella japonica* Stephensen, 1938 (Amphipoda, Gammaridea). Newsletter of the Porcupine Natural History Society, p 8-11, Number 2.

Smith, P R J & Hook, M (2002). Comparison of Different Clay Slurries for Removing Copper from Solution. Report for Aquatonics Ltd.

Smith, P R J. (2002). Use of Waste Clays to Treat Mine Drainage & Industrial Effluents. Presentation to Wheal Jane Link Project members, Camborne School of Mines, September 2002.

Townsend, M; Worsfold, TM; Smith, PRJ; Martina, LJ; McNeill, CL and Kendall, MA (2006). Occurrence of *Sternaspis scutata* (Polychaeta: Sternaspidae) in the English Channel. Cahiers de Biologie Marine, Volume 47, 281-285.

Smith, P, Snook, D, Muscutt, A and Smith, A (2010). Effects of a diesel spill on freshwater macroinvertebrates in two urban watercourses, Wiltshire, UK. Water and Environment Journal. 24(4): 249-260.

Smith, P and Nunny, R (2012). Mapping of sedimentary marine biotopes around Lundy, UK. Journal of the Lundy Field Society, 3, 41-74.

Smith, P, Smith, A and Rabineau, J (2012). The Hayle estuary complex - detecting modern anthropogenic disturbance in a highly polluted and physically amended estuarine system. Oral presentation at the 50th ECSA Conference, Venice, June 2012.