

**Bruce G. Callow, B.Sc. (Hons). M.Sc.  
Managing Scientist**

**Professional Profile**

Mr. Bruce Callow is a Senior Environmental Fate Specialist in Exponent's Health Sciences Center for Chemical Regulation and Food Safety. Mr. Callow has over 14 years experience in the risk assessment of plant protection products, biocides, and chemicals, with over 10 years experience in the assessment of the environmental fate of such compounds, gained in both consultancy and regulatory authorities.

He is experienced in the provision of expert regulatory advice relating to the environmental fate of agrochemicals and biocides and representation and negotiation with EU regulatory authorities on such issues. Mr. Callow has been involved in the preparation of a large number of environmental fate assessments for European Union and EU Member State dossiers in compliance with the EU plant protection product (91/414/EEC) and biocides (98/8/EC) directives. He has developed strategies to address specific regulatory issues and monitored studies and prepared scientific reviews based on such studies. He has also performed a large number of standard and higher tier FOCUS ground and surface water assessments for submission to regulatory authorities. He has also participated in the provision of training and the organisation of workshops for clients and other bodies, including regulatory authorities.

Mr. Callow previously worked at the Pesticides Safety Directorate, the UK regulatory authority for pesticides. There he was responsible for evaluating data, writing monographs under both National and EU (91/414/EEC) legislation, and providing technical advice on environmental fate to industry and others. He represented the UK in the second round of ECCO meetings for environmental fate and devised a 1<sup>st</sup> Tier exposure model for the calculation of concentrations of pesticides in drainflow.

**Academic Credentials and Professional Honors**

M.Sc., Ecotoxicology of Natural Populations, University of Reading, 1992  
B.Sc., 2(i) (Hons) Zoology (Animal Ecology), University of Aberdeen, 1990

## **Presentations**

Callow BG. Environmental toxicity data and its role in risk assessment. PTI Biocide Directive workshop, London UK, February 2008.

Callow BG. Risk assessment and dossier preparation in REACH. BACS REACH Seminar, Manchester, UK, April 2007.

Callow BG. What information is needed for an environmental risk assessment? Informa Life Sciences Workshop on Risk assessments for chemicals and biocides, Amsterdam, NL, September 2006.

Callow BG. Revisions to 91/414: Understanding the impact on environmental risk assessments, data requirements, strategies, and costs. Informa Life Sciences AgChem Forum, Amsterdam, NL, September 2006.

Callow BG. Environmental toxicity data and its role in risk assessment. IIR Biocide Directive workshop, London, UK, March 2005.

Callow BG. Environmental risk assessment. IIR 91/414/EEC (Agrochemicals) Workshop, London, UK, September 2005.

Callow BG. Principles of environmental risk assessment with respect to microbial pesticides. Natural Resources Institute Workshop for Ghanaian EPA, Accra, Ghana, October 2005.

Callow BG. Principles of environmental risk assessment with respect to biological pesticides. Natural Resources Institute Workshop for Ghanaian EPA, Accra, Ghana, October 2005.

Callow BG. Environmental toxicity data and its role in risk assessment. IIR Biocide Directive workshop, London, UK, December 2005.

## **Posters**

Callow B, Lewis G, Pascual J & Huber S. Terrestrial food chain modelling on the risk of bio-magnification of a plant protection product. SETAC Europe Conference, Warsaw, Poland, May 2008.

Callow B, Modelling of the influence of variation in soil DT<sub>50</sub> and mammalian depuration rate on food chain bio-magnification. SETAC Europe Conference, Warsaw, Poland, May 2008.

Callow BG. The FOCUS surface water scenarios and their possible effect on regulatory decision making. SETAC Europe Conference, Prague, Czech Republic, May 2004.

## **Prior Experience**

Specialist – Environmental Risk Assessment, JSC International Ltd., 2000–2008

Higher Scientific Officer, Environmental Fate and Behaviour Branch, Pesticides Safety Directorate, DEFRA, 1997–2000

Higher Scientific Officer, Technical Secretariat Branch, Pesticides Safety Directorate, DEFRA, 1996–1997

Scientific Officer, Technical Secretariat Branch, Pesticides Safety Directorate, DEFRA, 1994–1996