

Special Session: Marine antifouling - perspectives and recent developments

Chairs: Hans Blanck, Thomas Backhaus (University of Gothenburg, Göteborg, Sweden)

Background

Two decades ago, Tributyl-Tin (TBT) was the most successful antifouling biocide, applied on 70% of the world's ship fleet. However, the compound proved to be also extremely hazardous to the environment, causing endocrine disruption already at concentrations as low as 1 ng/L. The use of TBT has therefore been banned worldwide at the beginning of 2008. However, copper, the most common antifouling biocide since the TBT ban is also heavily debated with respect to its environmental properties. The area of antifouling technology has therefore seen a drastic increase in activity of the last decades, in search of viable and environmentally friendly alternatives to TBT and copper. Also the regulatory assessment of biocides in general is currently in a period of change, with the upcoming transition from the Biocide Directive to a Biocide Regulation, most likely implemented under the auspice of the ECHA in Helsinki.

This session therefore aims to provide a platform for bringing together scientists from the academic groups active in the area, research projects, industry and regulatory authorities.

Program: Monday 16 May 2011 13:55 - 18:35

- 13:55 - 14:00 Session Intro
- 14:00 - 14:40 Regulatory aspects on antifouling products in the EU (Kurt Haglund)
- 14:40 - 15:20 Recent developments in antifouling paints, the industry perspective (N.N.)
- 15:20 - 15:40 The next generation antifouling-Selektope (Lena Lindblad)
- 15:40 - 16:00 Recent developments on the Chinese market (N.N.)
- 16:00 - 16:30 Coffee break*
- 16:30 - 17:10 Ecotoxicology of antifouling biocides (Hans Blanck)
- 17:10 - 17:55 Environmental occurrence and fate of antifouling biocides (Kevin Thomas)
- 17:55 - 18:15 Employing classical mixture toxicity concepts for the optimization of biocide combinations for antifouling paints (Thomas Backhaus)
- 18:15 - 18:35 Towards novel marine paints with controlled release of biocides - concepts and applications (Markus Andersson)