

Title: Peptides as Broad Spectrum Biocides in Coatings - The Green Solution

Speaker: Dr Steve McDaniel/Dr Melinda E Wales

Forum: 6 **Date:** 31/03/09 **Time:** 12.10-12.30

Hospital systems, schools and other sensitive public places need an effective method of controlling biological agents. Reactive Surfaces' functional additive ProteCoat® can be applied as an additive in various mediums (paints or topcoats; textiles or within surface sealants) to respond reactively to contaminating microorganisms. ProteCoat is comprised of antimicrobial peptides and is novel, biodegradable, exhibits high efficacy against target microorganisms, including both fungi and bacteria, and is not toxic to humans, animals or the environment. The mechanism of action of ProteCoat initiates with a peptide-membrane interaction, and is followed by alteration of the membrane structure. This mechanism limits the potential for resistance development, as well as increasing the potential for synergism for your customer's favorite biocides, leading to a truly green alternative.