

# BCA Specialist Training Courses

## Learning with BCA "Surfactants and their Applications"

### WHY ATTEND

There are ever increasing demands for effective formulation and efficient product development. A deeper understanding of the role of surfactants will help in meeting these demands.

### COURSE OUTLINE

The applications course builds from basics in the morning and becomes more detailed in the afternoon, but no deep understanding of maths is required.

### WHO WILL BENEFIT

Chemists and technologists with a working knowledge of surfactants and surface chemistry.

The course tutor is Dr Jim Taylour who has many years' experience in the chemistry world holding numerous positions in product development, technical support and regulatory affairs before recently setting up his own consultancy.

### FEEDBACK FROM EARLIER COURSES

"The correct depth of information was supplied - very clear and concise"

"Good starting point to surfactants"

"It was good, well presented, thought out, etc"

"The presentation and explanation meant the course was very easy to understand"

"I found the content just right as it covered everything I personally work on. The tutor was excellent"

"The delivery and knowledge of the speaker was excellent - involved people in a positive manner"

"Very informative and relevant"

BCA members are offered priority booking with attendance limited to 20 delegates to ensure that the course is interactive. Attendees will receive course material in hard copy and electronically.



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## "Surfactants and their Applications"

09.45 Registration and refreshments

10.00 **Introduction to fundamentals:**

- What is a surfactant? (functional names, structures, major categories)
- Micelle formation (what a micelle is, morphology, critical micelle concentration (CMC), factors affecting CMC)
- Phase and phase diagrams (rheology, typical phase diagrams, basic aggregate types)
- Solubilisation
- Precipitation (hardness tolerance)
- Wetting (contact angles)
- Adsorption at gas/liquid and solid/liquid interfaces (importance, mechanisms)

12.30 Lunch

13.15 **Applications**

- Foams and defoaming (what a foam is, why foams are important, defoaming)
- Emulsions and microemulsions (importance, definitions, mechanisms, role in detergency, demulsification)
- Dispersions (role in stabilisation, rheology, importance of adsorption)
- Detergency (role of surfactant types)
- Examples of practical formulations

16.00 Close



