



BCA Specialist Training Courses

Learning with BCA ***"Surfactants and their Applications"***

Thursday 22 September 2022 at 10.00 am

[De Vere Cranage Estate, Holmes Chapel](#)

WHY ATTEND

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

COURSE OUTLINE

This is an advanced course and provides an overview of surfactants, including their functions and applications, at a more in depth level than the "An Introduction to Surfactants" course.

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. He is also on the management panel of Surf Safe, an EU-funded research programme for universities in Portugal, Holland, Denmark and Manchester.

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.



Fifth Floor The Exchange Station Parade Harrogate HG1 1TS Tel 01423 700249
enquiries@bcaorg.com www.bcaorg.com

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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



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Please complete and return this form by **no later than Friday 9 September 2022** to:

BCA, Fifth Floor, The Exchange, Station Parade, Harrogate, HG1 1TS

Tel: +44 (0)1423 700249; E-mail: enquiries@bcaorg.com

BCA MEMBER: []* £295.00 + £59.00 VAT = £354.00 (includes refreshments and buffet lunch)

NON MEMBER:[]* £590.00 + £118.00 VAT = £708.00

* (please enter number of delegates)

I/We enclose my/our cheque for £ payable to BCA

Or

I/We will telephone the BCA office with credit or debit card details (Visa/Mastercard)

Or

Please invoice quoting purchase order no:

BCA VAT REGISTRATION NO 235 5960 48. A VAT invoice will be issued

Title	Forename	Surname
Company/Organisation		
Address		
Telephone/mobile		
E-mail		
Special dietary requirements		

Please note that any personal information provided to BCA will be used in accordance with our Privacy Policy which can be found at <https://bcaorg.com/bca/content/privacy-policy>

To find out more about BCA or how BCA membership could benefit your company please visit our website or request a membership enquiry form at

<https://bcaorg.com/members/membership-enquiry-form>



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