



Commercialisation of Pickering Emulsions

PROGRAMME

9.00 – Tea/Coffee

Session 1 – Control of Pickering Emulsions.

Presentations on how particle size, morphology and chemical composition combine with the processing conditions to produce a broad spectrum of macroscopic and microscopic emulsion properties.

9.15 – Greetings

9.20 – Invited Speaker: Professor Bernie Binks (University of Hull) – *Fundamentals of particle-stabilised emulsions.*

10.00 – Invited Speaker: Professor Steve Armes (University of Sheffield) – *Bespoke Pickering emulsifiers based on block copolymer nanoparticles*

10.40 – Dr. Jeroen S. Van Duijneveldt (Bristol University) – *Clay based emulsions: kinetics and rheology.*

11.00 – Tea/Coffee

Session 2 – Formulating with Pickering Emulsifiers

What are the benefits and challenges, successes and failures of Pickering technology in commercial formulations?

11.20 – Invited Speaker: Dr. Phil Taylor (Syngenta) – *Formulating with Pickering emulsions*

12.00 – Invited Speaker: Dr. Ir. Albert T. Poortinga (Bether Encapsulates) – *Commercialisation of Pickering Emulsions: examples from food and pharma.*

12.40 – Dr. Paul Clegg (University of Edinburgh) – *Joining Emulsion Droplets Using Colloidal Rods.*

13.00 – Lunch with Poster Presentations

14.00 – Dr. Neil Grant (BYK Additives Ltd.) – *Pickering emulsion stabilisation using synthetic clays, formulation examples and challenges.*

Session 3 – Emulsion Polymerisation

Talks exploring the possibility of using particle emulsifiers in emulsion polymerisation to produce materials with new and diverse properties and performances. From armoured colloids to clay-polymer nanocomposite materials.

14.20 – Invited Speaker: Professor Stefan Bon (University of Warwick) – *The ins and outs of Pickering emulsion polymerization*

15.40 – Invited Speaker: Dr. Konrad Roschman (BASF) – *Interfacial stabilization by soft Janus nanoparticles*

15.40 – Tea/Coffee

Session 4 – Q and A session with the Experts

A round-table discussion to establish “A Beginners Guide to Pickering Technologies” – to be authored after the event and sent out to delegates.

16.00 – Open discussion with a panel of the invited speakers. Chairman TCB

17.30 – Close and Poster Prize

POSTERS

Dr. Mariana B. T. Cardoso (University of Birmingham) – *Encapsulation and Triggered Release of Hydrophobic and Hydrophilic Actives Using Silica Colloidosomes.*

Anja A.J. Schröder (Wageningen University and Research) – *Tailored microstructure of colloidal lipid particles for Pickering emulsions with tunable properties.*

Dr. François Sicard (University College London) – *Shrinking Armored Droplets to Advance New Materials for Applications.*

Dr. Kate L. Thompson (University of Manchester) – *Long-Term Stability of n-Alkane-in-Water Pickering Nanoemulsions: Effect of Aqueous Solubility of Droplet Phase on Ostwald Ripening.*

Dr. Qian Sun, (University of Cambridge) – *Metal coated colloidosomes and their potential application as targeted carriers for small molecules.*

Dr. Brian A. Pethica, (Princeton University) – *A scalable route to amphiphilic polymer Janus particles using Flash NanoPrecipitation.*