

Sustainable Coatings and Encapsulation:

Fundamentals of Films and Microcapsules

A CPD short course for industry



SUSTAINABLE SOLUTIONS



ENCAPSULATION TECHNOLOGIES



COATINGS & FILMS SCIENCE



LABORATORY DEMONSTRATIONS



EXPERT SPEAKERS & NETWORKING



Scan to visit the website



MONDAY 14 - THURSDAY 17 SEPTEMBER 2026

3.5 DAYS

Attend the full 3.5-day course, or choose flexible options: 2 days on Sustainable Coatings or 2.5 days on Sustainable Microencapsulation.

Sustainable Coatings and Encapsulation:

Fundamentals of Films and Microcapsules

Monday 14 - Thursday 17 September 2026

A CPD short course providing a strong foundation in coating and encapsulation science and technology, with a focus on sustainable solutions.

EXPERT SPEAKERS

- **Steven Abbott** – Steven Abbot -TCNF Ltd & University of Leeds
- **Andrew Bayly** – University of Leeds
- **Olivier Cayre** – University of Leeds
- **Devon Crouch** – Unilever
- **Ian Harrison** – Givaudan
- **Lynette Holland** – Xampla
- **Natalia Herrera-Vargas** – Unilever
- **Nik Kapur** – University of Leeds
- **Tobias Kockel** – Powder Technology Expert
- **Koon-Yang Lee** – Imperial College London
- **David Palmer** – Micropore
- **Nicole Hondow** – University of Leeds
- **Mike Ries** – University of Leeds
- **Andrew Ross** – University of Leeds
- **Alex Routh** – University of Cambridge
- **Swen Schumann** – Glatt Ingenieurtechnik GmbH
- **James Taylor** – Xampla
- **Clare Walker** – Holiferm
- **Keeran Ward** – University of Leeds
- **Zhibing Zhang** – University of Birmingham

ABOUT THE COURSE

Sustainable Coatings and Encapsulation: Fundamentals of Films and Microcapsules is a continuation and expansion of the highly successful Microencapsulation short course previously delivered at the University of Leeds between 2012 and 2023.

This updated course provides a strong foundation in coating and encapsulation science and technology, with a clear emphasis on the development of more sustainable solutions. Delegates will gain both fundamental understanding and practical insight into how sustainability considerations are shaping current and future practice.

The course offers a programme of academic and industry collaboration, combining expert-led presentations with laboratory demonstrations. Delivered over 3.5 days, the course is structured into three complementary themes.

DAY 1



Coatings and Films

- Fundamental principles
- Film properties and characterisation
- Industrial examples
- Technical aspects of film formulation

DAY 2



Sustainability

- Life cycle analysis
- Regulatory drivers
- Material and process sustainability
- Practical solutions

DAYS 2 - 4



Encapsulation

- Encapsulation via drying processes
- Shell formation on emulsion droplets
- Sustainable encapsulation materials and processes
- Emerging technologies



COURSE AIMS

- Understand scientific and engineering principles underpinning coatings and encapsulation
- Explore where sustainability gains lie in established and emerging materials
- Examine life cycle analysis and regulatory considerations
- Develop insight into formulation, manufacturing and characterisation
- Understand translation from laboratory to industrial scale



WHO SHOULD ATTEND

- Suitable for industrial scientists and engineers working in formulation, manufacturing, quality control and technical roles.
- Also relevant to academic researchers interested in industrial challenges and sustainability.
- No prior knowledge required. Scientific or engineering background or relevant industrial experience recommended.

COURSE DIRECTORS

Dr Olivier Cayre and
Dr Keeran Ward
Associate Professors,
School of Chemical
and Process Engineering,
University of Leeds

VENUE



Faculty of Engineering
and Physical Sciences
University of Leeds
Leeds, LS2 9JT

COURSE FEES



Days 1 – 2 (2 days): £800
Days 2 – 4 (2.5 days): £1,000
Full course (3.5 days): £1,300



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