

# Measuring & Characterising Polymers Workshop

Wednesday 17th June

Anton Paar UK, 950 Capability Green, Luton, LU1 3LU

Anton Paar Ltd is delighted to invite you to join us for this comprehensive workshop on Polymer Processing and Characterisation. Tailored for industrial scientists and academic researchers alike, this workshop will equip you with essential knowledge and practical insights into polymer behaviour – from raw material to final product.

Polymer processing is a cornerstone in industries such as plastics, automotive, packaging, electronics, and biomedicine. This workshop will provide an in-depth look at processing techniques and analytical tools to evaluate and optimise polymers during every stage of their lifecycle.

Prepare to deepen your knowledge and enhance your skills in polymer characterisation and processing!

## Key takeaways:

- Fundamentals of polymer rheology and viscoelastic behaviour
- Extrusion and mixing techniques: parameters, troubleshooting and scale-up
- Spectroscopy techniques (FTIR, Raman) to identify polymer types and additives
- Moisture and viscosity analysis for quality and performance assessment
- Microwave digestion for polymer sample preparation
- Hands-on demonstrations with Anton Paar and Brabender instruments
- Case studies showcasing applications across various polymer industries

## Topics Covered:

- Polymer Rheology – rotational, oscillatory and extensional testing
- Mixing & Extrusion – processing challenges and control
- FTIR & Raman Spectroscopy – structural identification and monitoring
- Viscosity & Moisture Analysis – critical quality attributes in formulations
- Microwave Digestion – advanced sample preparation for elemental analysis

## Timetable



09.45	Registration, Welcome & Coffee
10.00	Session 1 – Viscosity Measurement Across Polymer Forms
10.45	Session 2 – FTIR & Raman Spectroscopy in Polymer Analysis
11.15	Laboratory Practical Session
11.45	Coffee Break
12.00	Session 3 – Moisture Analysis in Polymers
12.15	Session 4 – Mixing and Extrusion in Polymer Processing
13.00	Lunch & Networking
13.45	Laboratory Practical Session
14.15	Session 5 – Advanced Polymer Digestion for Elemental Analysis
14.45	Session 6 – Fundamentals of Polymer Rheology
15.30	Coffee Break
15.45	Laboratory Practical Session
16.30	End of workshop - safe travels!

## Meet the Team



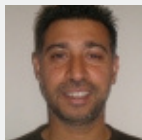
### Joseph Hodges

Joseph Hodges is the Product Manager for Rheology & Particle Characterisation for UK & Ireland. Joseph has a degree in Biomedical Sciences from the University of Southampton and has 7 years' experience assisting research & manufacturing institutions, adopting physical characterisation methods on rheometers and developing their material characterisation strategies throughout the UK, US, Europe and Southeast Asia. In his current role he is responsible for supporting application development and technical enquiries within the UK & Ireland.



### Steve Vincent

Steve Vincent is Head of the UK Technical Department, providing application support, sample testing, training and method development across all Anton Paar product lines. A chemist by training, he has over 30 years' experience with leading analytical instrument and software companies, developing a strong understanding of analytical chemistry techniques and the challenges faced in QC and R&D laboratories. His expertise includes density measurement, refractometry, electrochemistry and molecular spectroscopy. He is also Anton Paar UK's in-house expert for the pharmaceutical industry and the data integrity solutions used to meet regulatory requirements.



### Steve Singh

Steve Singh is the Product Manager for ASC. Steve Singh has worked in the field of analytical and synthetic chemistry for over 30 years. He joined Anton Paar in 2004 as the Product Manager for the Chemical Analysis Technology division, now called Analytical and Synthetic Chemistry (ASC). Along with ASC, Steve is also responsible for FTIR and Raman spectroscopy.



## Book Your Place

Spaces are limited to ensure an optimal delegate-to-tutor ratio for hands-on learning. To reserve your place, please scan the QR code below or click here to register. Alternatively, please email [info.gb@anton-paar.com](mailto:info.gb@anton-paar.com).



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