

# Advances in Measurement Technology for Petrochemical and Chemical Testing

## 18 June 2025

The Falkirk Wheel, Lime Road, Falkirk, FK1 4RS

Anton Paar Ltd invites you to join this **FREE** expert session covering the technology, methodology and equipment used for Production, QC and R&D in the petrochemical and chemical industries.

Discover how The SVM viscometer has revolutionised the viscosity testing of oils, fuels and lubricants, see the latest application of FTIR spectroscopy to product quality testing and identification, the time savings to be gained through new methods for oxidation stability testing, and gain expert advice on the correct method for determining common QC parameters such as density, API gravity, concentration, flash point and more.

This seminar also includes hands-on sessions to help put the theory into practice and is recommended for anybody involved in the testing of petroleum products or chemicals.

### Key takeaways:

- ▶ The theory density and viscosity measurement and the practical applications within the industry
- ▶ The importance of flash point and distillation profile in safe operation and transport of product
- ▶ Innovative new methods to evaluate oxidation stability
- ▶ Best practices for instrument care and data storage
- ▶ Hands-on sessions to analyse samples and interpret results
- ▶ Case studies and applications of chemical and petrochemical testing to optimise processes, enhance product quality, increase safety and drive innovation

### The methods presented include:

- ▶ Density measurement
  - API density
  - High temp/pressure applications
  - Filling applications
- ▶ Viscosity measurement with rotational and SVM type viscometers
  - Low temperature tests
  - Replacing capillary tests
- ▶ Flashpoint and Distillation
- ▶ Oxidation stability: Prediction of shelf-life
- ▶ FTIR: Supporting non-destructive testing of samples

Prepare to deepen your knowledge and enhance your skills.

### Workshop Programme - 18 June 2025

09.00	Welcome - registration, coffee & introduction to the day
09.45	Session 1 – <b>Viscosity theory and techniques</b> <ul style="list-style-type: none"><li>• SVM (ASTM D7042 vs D445 and SAE J300)</li><li>• ViscoQC (ASTM D2983/D8210 and AASHTO316)</li></ul>
10.45	Break
11.00	Session 2 – <b>Density Measurement theory and applications</b> <ul style="list-style-type: none"><li>• Product classification (ASTM D4052)</li><li>• Oil well recovery</li><li>• Transportation</li></ul>
12.00	Laboratory practical session 1
13.00	Lunch
13.30	Session 3 – <b>Oxidation Stability</b> <ul style="list-style-type: none"><li>• Assessing shelf-life and product degradation (BS EN 590)</li></ul>
14.00	Session 4 – <b>Flash point and Distillation</b> <ul style="list-style-type: none"><li>• Chemical Analysis for quality &amp; safety (ASTM D93, D56, IP170, D86 and more)</li></ul>
14.45	Break
15.00	Session 5 – <b>FTIR Spectroscopy Overview</b> <ul style="list-style-type: none"><li>• Oil condition Monitoring (ASTM E2412)</li><li>• FAME concentration in Diesel (DIN EN 14078)</li></ul>
15.30	Laboratory practical session 2
16:30	End of Workshop – safe travels

### Who should attend?

Places will be limited to ensure a good ratio of delegates to tutors during the workshop. To reserve your place, please complete the following form and email to:

[info.gb@anton-paar.com](mailto:info.gb@anton-paar.com)

# Meet the Team



## Les Rice

Les began his Anton Paar journey as a sales engineer in Scotland with Paar Scientific in 2002. With a 45-year background in UK & European instrumentation sales and product support he has worked for some of the major names in instrumentation and also ran his own instrument supply company. His 23 years with Anton Paar have seen spectacular global growth and recognition of Anton Paar as a World Class instrument partner.



## Dr Matt Smith

Dr Matt Smith is the Sales Engineer for measurement instruments across the North East territory. Matt's background is in Polymers and Physical Chemistry and he has over 20 years' experience in technical sales and business development with the last 6 years being spent at Anton Paar. The Chemical and Petrochemical industrial base across Humberside and Teesside is of key importance for Matt and the North East territory.



## Ron Savin

Ron Savin is an Instrumentation Engineer with experience in the water & chemical industries. Ron has been with Anton Paar for over 20 years working across our customer base from academia to petrochemical refineries. Ron currently covers the East of England area for our laboratory instrumentation range, as well as application specialist for our viscosity and petroleum instrumentation for the UK.



## Suvin Viswambaran

Suvin Viswambaran has over 14 years of experience in the field of analytical laboratory instrumentation business. He joined Anton Paar in 2022 as the Sales Engineer for the Measurement products and Analytical and Synthetic Chemistry (ASC). Along with ASC, Suvin is also responsible for FTIR and Raman spectroscopy covering the Scotland region. Suvin has a post-graduate degree in Analytical Chemistry from the University of Aberdeen.



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