

Advances in Measurement Technology for Petrochemical and Chemical Testing

17 July 2025

The Heath Business Technical Park, Runcorn

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 - 17 July 2025

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

Meet the Team



Ian Gregory

Ian Gregory is the Technical Sales Engineer for the North West of England. He has over 30 years of experience in this role covering Chemical, Petrochemical and Beverage industry sectors. Initially focusing on Density and Viscosity applications, he now looks after the new Petroleum testing equipment too. Due to his longevity he finds himself replacing equipment he sold 25 years ago!



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.



Steve Vincent

Steve Vincent is our UK Sales manager for Anton Paar measurement products including our range of viscometers. A chemist by training, he has worked for more than 30 years with market leading companies in the analytical instrument and software business. During that time he has developed a thorough understanding of analytical chemistry techniques and issues faced in QC and R&D laboratories. He has expertise in density measurement, refractometry, electrochemistry, molecular spectroscopy. He is also our in-house expert for the pharma industry, and the data-integrity solutions we offer to address the regulatory requirements the industry faces.



Email to: info.gb@anton-paar.com

Name: _____

Job Title: _____

Company: _____

Address: _____

Postcode: _____

Telephone: _____

Email: _____

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