

Effective measurements with your MCR rheometer (with RheoCompass™) (IARBA002)

10th June 2025

This workshop is tailored to help you perform precise and reliable measurements with your rheometer, focusing on practical applications and troubleshooting techniques. Whether you're new to rheology or experienced in the field, the session will equip you with the skills needed to confidently address real-world measurement challenges.

What will you learn on this workshop?

- ▶ Selection of the optimal measuring system for your sample and application.
- ▶ Choose the right tests to extract meaningful data.
- ▶ Identify and overcome common measurement challenges, including issues with test settings and external factors such as bubbles, drying, or sample preparation.
- ▶ Explore practical approaches to dealing with difficult samples, such as suspensions, slurries, volatile or sensitive materials.

Delegates will also receive a copy of the "Applied Rheology" book which is a practical guide to rheology written by our former colleague Dr. Thomas Mezger.

Places will be limited to ensure small groups during practical hand-on sessions so please confirm interest in attending ASAP.

Workshop Agenda – Day One

09:30 h	Choosing the Correct Measuring System: Exploring the advantages and disadvantages of different systems, measurement ranges, and recommended sample types, including suspensions, slurries, and pastes.
10:30 h	Coffee break
10:45 h	Selecting the Right Test: Tailoring tests for specific needs such as process development, simulation, package design, consumer perception, quality assurance, and fundamental material properties.
11:40 h	Short break (10 minutes)
11:50 h	Detecting Problems with Test Settings: Identifying limits in your measurement setup, troubleshooting issues with measurement point generation, and addressing thermal expansion and temperature gradients.
12:30 h	Lunch break
13:30 h	Mitigating External Factors: Overcoming challenges in sample preparation, shear history, bubbles, drying, film formation, and sample expulsion to improve measurement reliability.
14:30 h	Coffee break
14:45 h	Hands-on practical session
17:00 h	End of Seminar

This workshop is designed to equip you with the knowledge and skills needed to achieve the most accurate, reliable results with your rheometer. Whether you're a beginner or an experienced practitioner, this session will provide practical insights into optimizing your measurements and tackling common challenges.

A key focus will be on selecting the correct measuring system for your application. Each system—be it cylinder, cone-and-plate, or parallel-plate—has unique advantages and limitations. We will explore the measurement ranges of these systems and discuss which are best suited for different sample types, such as suspensions, slurries, and pastes. Understanding these differences is essential to capturing meaningful data.

We will guide you in choosing the right test for your specific needs. Whether you're working on process development, simulating manufacturing conditions, designing packaging, assessing consumer perception, or ensuring quality control. You'll learn how to align your test objectives with the data you need, helping you make better decisions in research, development, and production environments.

We will also delve into detecting and addressing problems with test settings. Identifying the limits of your measurement setup, resolving issues with measurement point generation, and accounting for thermal expansion or temperature gradients. Being able to tell when a measurement error has occurred will help you confidently manage even the most challenging scenarios.

Finally, the workshop will cover how to mitigate errors caused by external factors. We'll address practical concerns such as sample preparation, shear history, and the presence of bubbles or particles. You'll also learn how to handle issues like drying, film formation, or sample expulsion, which can significantly impact measurement accuracy. By the end of this session, you'll have the tools to refine your sample handling process and minimize external interferences.

This workshop is your opportunity to deepen your understanding of rheological measurements, solve common problems, and improve the reliability of your results. It's a comprehensive learning experience designed to elevate your skills and ensure your rheometer delivers the insights you need.



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

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Please reserve me a place at the "IARBA002" Workshop as below:

☐ Single place (includes course, book,
lunches & coffee/tea in mornings and afternoons) £349+VAT

Special dietary requirements: _____

Please note that a purchase order or prepayment by credit card/cheque is required prior to the event in order to reserve your place. Payment terms: prepayment 14 days prior to the event.

I will: ☐ raise a purchase order

☐ prepay by card/cheque

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