

"During a three-day training course given by Neil Cunningham we advanced more than during the last three years"



Texture

Application properties

Stability

Dispersion quality

Pumping

Mixing and filling

Storage

Draining

Sagging and slumping

Printing

Levelling

Coating

Rheology & Viscosity Consultancy, Analysis and Training

Measuring the flow of your products can be a daunting task. In-fact, the whole field of rheology can often appear nothing short of a black art to many. We specialise in providing practical advice, hands-on tuition and high quality testing and analysis for anybody in need of viscosity and rheology data for their products. Please take a look at the services on offer and if you have any questions don't hesitate to get in touch.

Neil Cunningham, Director

Sample Testing and Analysis

From our well-equipped laboratory we provide a range of services from routine viscosity tests on raw materials, stability samples or finished goods to comprehensive benchmarking and profiling of new or competitor products. Our high performance rheometers and viscometers can provide the following rheology and viscosity data for your products:

- Viscosity as a function of shear rate, shear stress or temperature.
- Brookfield viscosity
- Zero-shear viscosity, yield stress and thixotropy
- Viscoelastic analyses: G' , G'' , $\tan \delta$, η^* etc
- Texture, hardness, penetration, tack and adhesion

Practical Training Courses

Our training courses focus on providing the core concepts and the practical tools to enable the rheometer or viscometer user to confidently select instrumentation, develop methods and interpret and validate flow data. Content is often tailored to suit the customer's specific needs and continuing support in the weeks following the course is always provided.

Practical Rheology for Chemists is an on-site course for users of rheometers from TA Instruments, Thermo-Haake, Malvern-Bohlin, Anton Paar, Reologica and Brookfield. The course is based on a "Rheologist's Toolkit" approach that simplifies method selection so the user can instantly start gaining high quality rheological information about their products. The combination of hands-on practical work and accessible classroom sessions covers topics such as:

- Viscosity profiling of non-Newtonian fluids
- Understanding viscoelastic parameters and oscillatory test methods
- Whether to use controlled stress or controlled shear rate methods

Practical Viscometry is a short hands-on course for users of Brookfield and similar viscometers. The course covers everything needed to take reliable and repeatable viscosity measurements, including: sample conditioning, spindle and speed selection, instrument handling, dealing with hard-to-measure materials and validating data.

Test Method Development and Validation

Setting up rheometer or viscometer SOPs and new methods can be a costly, frustrating and time-consuming process. Getting good quality results that are free from instrument and methodology-related artefacts is one thing - but do they really tell you what you need to know?

If you have new products in need of validated methods, or maybe you have reason to doubt your current results, then we can help. Following discussions on your needs we will develop and validate reliable testing protocols and train you and your staff in their correct implementation.

Instrument and Accessory Purchase Advice

Buying a new rheometer is no fun! Negotiating the maze of specs and capabilities can be daunting and you never know if you really *are* getting a “bargain price” on that “ex-demo” instrument. Once you've made your decision you're stuck with it - so you'd better make sure you get it right. If you need help with any aspect of the rheometer or viscometer buying process we can give you unbiased, independent advice on makes, models, accessories and quotations.

Web, Email and Telephone Training and Advice

Sometimes a few questions answered and some expert advice is all that is needed, so, in addition to our standard on-site visits, we are now offering training and advice via email, telephone and web conferencing. The training can be private one-on-one sessions or part of a larger group. With instant access and payments via credit cards the answers to your questions could be only minutes away.

ABOUT NEIL CUNNINGHAM

Neil entered the field of rheology through sales and application development roles at rheometer manufacturers TA Instruments and Rheometric Scientific. In 1998 he became an independent consultant in the field and has since provided his expertise to many global corporations in the field of pharmaceuticals, consumer health, cosmetics, adhesives, foods, coatings and many other industries. In his first ten years as an independent consultant he has trained an estimated 1000+ staff at hundreds of companies, has gained an intimate knowledge of many of the market-leading rheometers and viscometers and the best methodologies for most product types. Neil is regularly invited to speak at industry seminars and other educational events.

"Neil Cunningham is uniquely in-tune with the needs of R&D and Process Development workers looking to develop rheological understanding and profiling routines for their products"

Procter & Gamble

GlaxoSmithKline

PepsiCo

Reckitt Benckiser

Estee Lauder

Nestle

Unilever

Henkel

Sun Chemical

3M

Ciba

Masterfoods

DuPont

Gillette

SSL International

Cadburys

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