Description:
This 1-day workshop is aimed at those interested in how rheological measurements can be used to characterize foods, cosmetics, and personal care products.

Whether you wish to learn more about what factors impact viscosity, what processes knowing viscosity can improve, or you wish to move beyond viscosity measurements and learn how viscoelastic measurements are used to identify structural strength, stability, consumer appeal, or other basic material properties, this is the right workshop for you.

By the end of this workshop, you will:

Understand how viscosity and rheology measurements are made and used
Recognize the various types of flow and viscoelastic behaviors
Identify the appropriate rheological test to resolve a variety of material characterization needs for an array of consumer products

Engineers, scientists, chemists, students, and lab technicians will find the information useful in solving problems encountered during formulation, storage, and use conditions.

Agenda:
9:00 am Welcome and introductions
9:15 am Fundamentals of rheology - flow properties, i.e. how materials behave in motion
   • Concepts for steady shear testing – viscosity, shear rate, shear stress, yield stress, flow behaviors
   • Steady shear measurements – viscosity as a function of shear, temperature, and pressure
10:15 am Coffee break
10:30 am Fundamentals of rheology – deformation properties, i.e. how materials behave at rest
   • Concepts for oscillatory testing – viscoelasticity, liquid, solid, viscoelastic materials, structure, modulus
   • Oscillatory measurements – linear viscoelasticity
12 noon Lunch (provided)
12:30 pm Performing effective rheological measurements
   • Choosing the right test
   • Choosing the right measuring system
   • Mitigating external effects
   • Getting started
2:00 pm Coffee break
2:15 pm Hands-on Sessions
4:15 pm End of workshop

Date: September 21, 2016
Location: Holiday Inn Express Chicago-Shaumburg
         1550 N. Roselle Road
         Schaumburg, Illinois  60195
Cost: Free but registration is required.
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