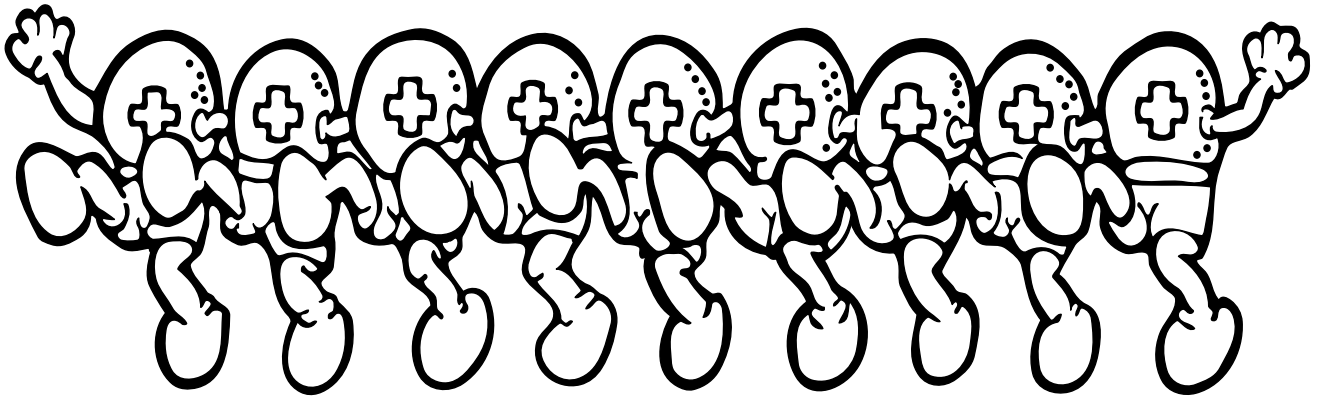

***Do Your Colloids Have
Their Act Together?***



Choreograph their performance with a Zeta-Meter System 3.0+



Your Ticket to Understanding Colloidal Systems

The physical behavior of a colloidal suspension often depends on the electrokinetic properties of its individual particles. Zeta potential and electrophoretic mobility measurements help characterize these properties, providing us with a tool for understanding and controlling colloidal systems. You can use this tool to solve practical problems such as enhancing stability, modifying viscosity, or separating the colloid from its suspending liquid.

Track a colloid and get your answer—it's as simple as that. No charts, calibrations or calculations.



Front Row Viewing

Pour your suspension into the electrophoresis cell. Insert electrodes and connect them to our Zeta-Meter 3.0+ unit. Now place the cell under our microscope. Alignment is a snap...it's an optical trick of ours. No micrometers needed. Viewing is surprisingly comfortable and the colloids look like stars against a dark sky.

An Easy Plot to Follow

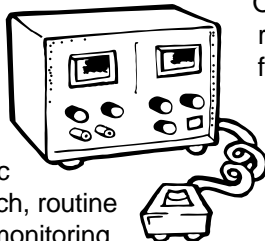
Zeta potential is measured using an easily understood method called microelectrophoresis. First, the test suspension is placed in a viewing chamber, called an electrophoresis cell. A microscope is used to observe the individual colloids in the cell. Electrodes in each end of the cell are connected to a DC power supply. When the electrodes are energized, the voltage field that they produce causes the charged particles to move toward the oppositely charged electrode with a velocity that is proportional to their zeta potential.

Fast Paced Action

The Zeta-Meter 3.0+ measures the specific conductance of your sample and helps you select the appropriate tracking voltage. Now energize the electrodes and watch the colloids as they move across a grid in the microscope. Track one by simply pressing the "track" button while your colloid traverses the grid. When you release it a few seconds later you have an instant zeta potential (or electrophoretic mobility, if you prefer). A complete run takes only minutes.

Keep It Simple

Our Zeta-Meter System 3.0+ is a simple, reliable and accurate way to measure zeta potential and electrophoretic mobility. It is ideal for research, routine quality control and process monitoring.



Flawless Performance

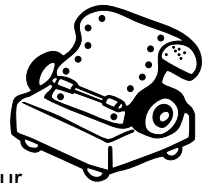
Our Zeta-Meter 3.0+ is self-correcting. It recognizes errors and flags unreasonable results. Just press the "clear" button to remove an inconsistent value without affecting the rest of your data.

Instant Replay

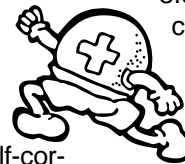
While you are working, the Zeta-Meter 3.0+ maintains a statistical analysis of your measurements. You can review this at any time. At the press of a button you can see the number of colloids tracked so far, as well as their average zeta potential (or electrophoretic mobility), and standard deviation.

Rave Reviews

If you want a record of your test data, just hook up a printer to your Zeta-Meter 3.0+. We always supply a printer port. You supply the printer. Or we can. Any standard parallel-type printer will work. Every good value is sent to the printer, but not the ones you scrub. Operating details are also listed, including any changes you make as you proceed. Finally, a statistical summary is printed out at the end of your run.



If you really want to number crunch your data, then connect the Zeta-Meter 3.0+ serial port to your personal computer. Our free software prepares your data for Lotus 1-2-3®. We'll even give you templates that graph your data with ease.



Coming Attractions...

Give us a call at 540-886-3503. In the USA, call toll free at 800-333-0229. You can reach us on the web at <http://www.zeta-meter.com> or e-mail info@zeta-meter.com. We will be pleased to supply more details.