



## Particle Analysis Made Easy

### Particle Characterization

FlowCAM® uses powerful pattern recognition algorithms to identify and quantitate individual particle types in a heterogeneous sample.

### Particle Concentration, Size and Shape

As a sample is processed, concentration values are automatically calculated along with the size and shape for each particle.

### High-Speed Imaging

All particles or organisms detected by the FlowCAM® are captured and stored in an efficient manner for easy retrieval for analysis and archival purposes.

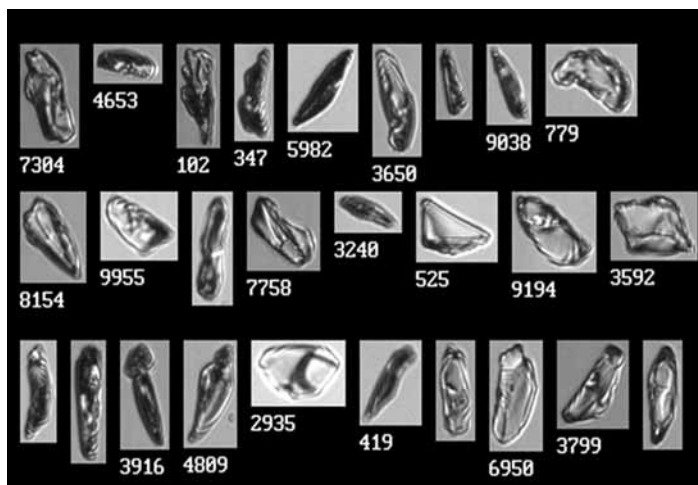
### Speed of Sampling

FlowCAM® can analyze thousands of particles or cells from the captured images in seconds.

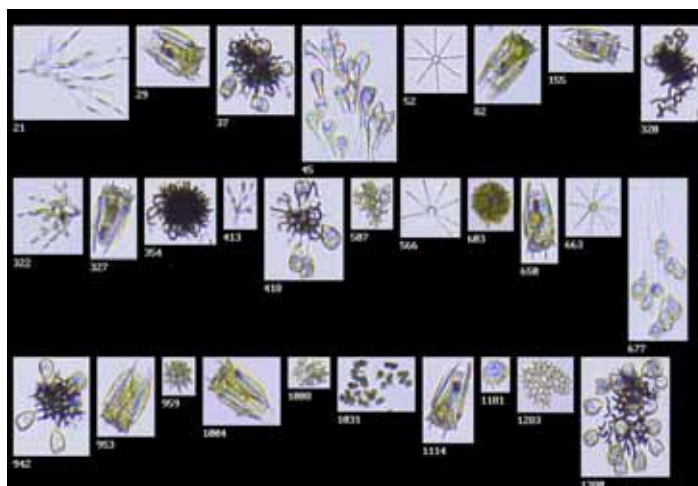
### The Combined Benefits of Multiple Instruments

The FlowCAM® is a digital imaging microscope and a flow cytometer. Previously, these functions were only possible utilizing two separate instruments.

## Example FlowCAM® Applications



The monochrome particle images above were taken with the FlowCAM BX from a sample of silica gel intended for use as column packing material for chromatography. The sample was being analyzed by Quality Control for particle uniformity. In this application, the particles were expected to be relatively spherical in shape in order to pack the column uniformly. A common particle analysis system showed the particles to have a uniform distribution of Equivalent Spherical Diameter (ESD), but the FlowCAM showed the particles to be non-spherical in shape, indicating that the lot was to be rejected.



The color particle images above were taken with the FlowCAM CX from a pond water sample. The fluorescence triggering method was used to trigger the camera only when living algae passed through the flow cell and 2 channels of fluorescence measurement were collected for each particle. Fluorescence or scatter triggering is very useful when analyzing sparse samples where continuous imaging might not yield the desired results.