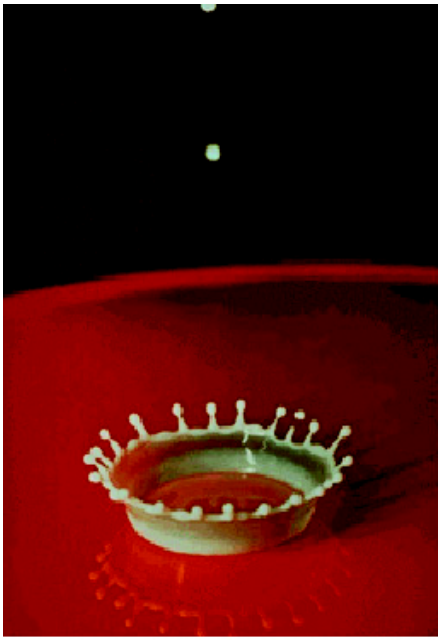
MILK CROWN OBSERVATION DEVICE

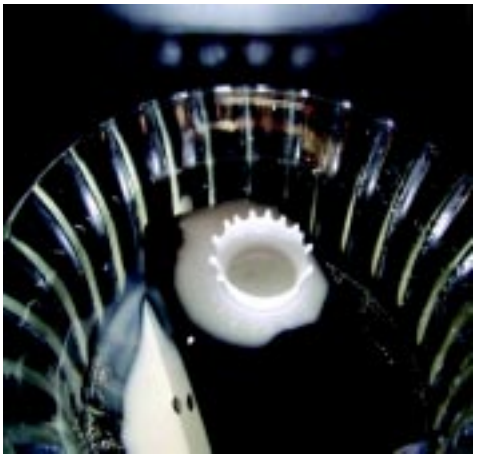
N700-MILKCROWN

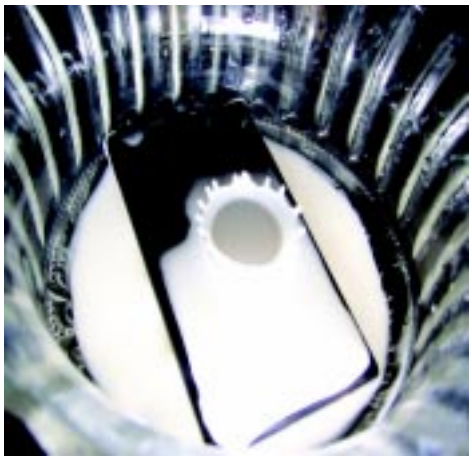
$575

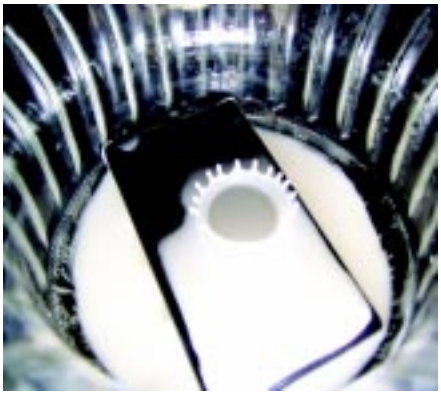


The study of the Milk Crown is meant to elucidate the complexities of drop impact onto a thin layer, by pointing out the existence of different structures in different ranges of the space of control parameters (Motion of Fluids). Without this experiment, it is impossible to appreciate the distinct dynamic origins of secondary droplets.

The behavior of liquid particles when they impact and splash is extremely beautiful and can be analyzed using the Milk Crown Observation Device. When a liquid drop collides with a thin fluid layer, a crown-like structure (hence, Milk Crown) will be formed. During the observation of this phenomenon, surface tension is dominant and the time scale is very short. Typically, expensive equipment (high-speed camera or museum quality demonstration) is required to catch the details of this experiment. However, our introduction of the Milk Crown Observation Device allows you to demonstrate with precision in a very affordable way.







PRINCIPLE OF OPERATION

Milk drops from a bowl are located in the top shelf of the unit. As the milk drops flow out of the tube, it descends into a lower shelf where an optical sensor is located. As the milk drop crosses the sensor, it triggers the flashlight that highlights the action. The circuit of the flash was purposefully adjusted to delay the flash so that it shines at the moment the milk drop hits the bottle below. The delay mechanism is adjustable via a dial located at the center of the flash. The result is the unobstructed observation of the Milk Crown phenomena.

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