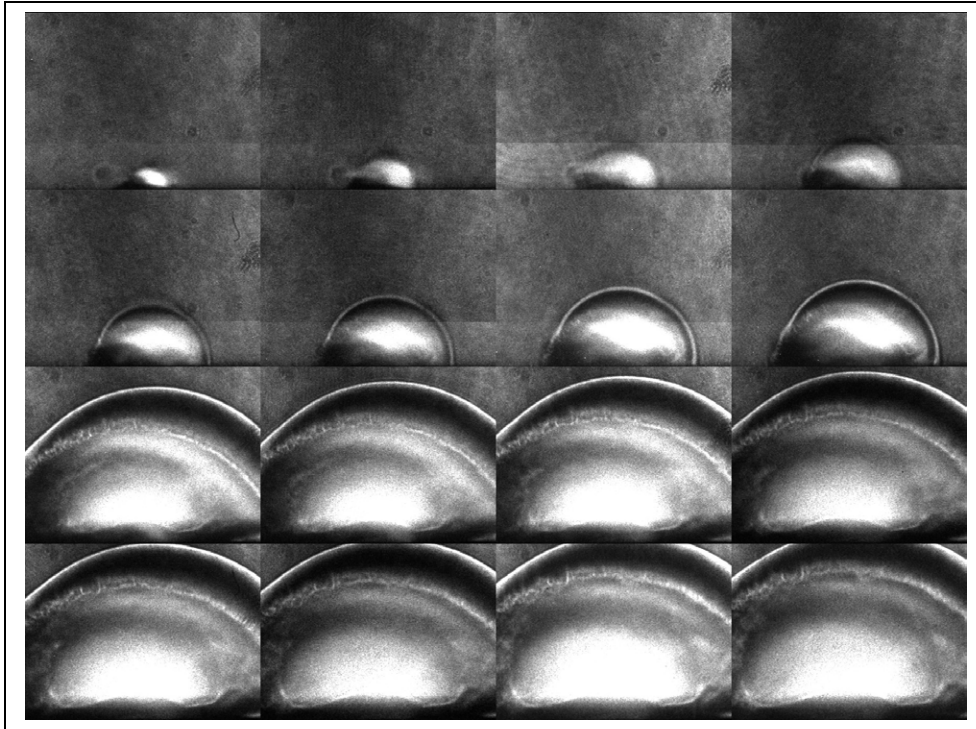




# Specialised Imaging

## Application Note 10

### Schlieren Imaging of Shock Wave from Micro Exploding Bride Wire



#### IMAGING PARAMETERS

SIMD16 Camera running at 50 Million fps, with 10 ns exposures with 532 nm Laser backlighting Schlieren optics. Field of view is about 1.5 mm (H) X 1 mm (V).

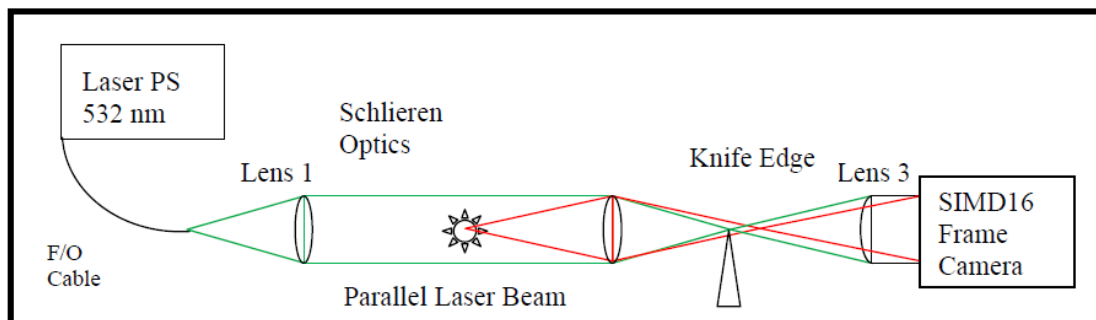
#### EQUIPMENT PARAMETERS

SIMD16 Framing Camera with >35 lp/mm dynamic spatial resolution. 4 Watt CW laser, 532nm, shuttered to 3 ms with electromechanical shutter. TTL trigger via time delay generator.

#### OVERVIEW OF EXPERIMENT

Micro EBW with fire set and additional synchronization for laser trigger and camera trigger. With minimal interframe time no image ghosting or lag using proprietary SIM image technology. Schlieren optics were optimized for the additive light to enhance the shock wave with a darker background.

Courtesy Los Alamos National Laboratory



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