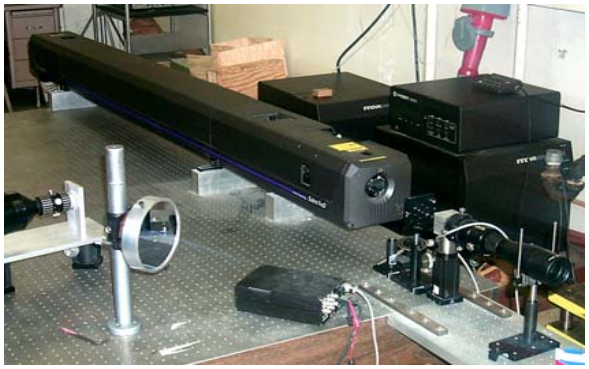
Ares Rosakis

HIGH-SPEED IMAGING FACILITY

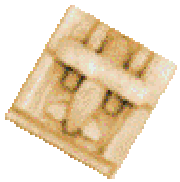
- High-speed imaging systems are available for the real-time visualization of dynamic deformation and failure. With a laser illumination source, optical interferometry is typically employed to provide quantitative information regarding the evolution of deformation and failure on a microsecond time scale.

Cordin 330A High-Speed Film Camera



Coherent Pulsed Ar-Ion Laser

- **High-speed film camera**
  - ***Cordin Model 330A***
  - ***2 million frames/second***
  - ***80 frames***
- **Pulsed laser system**
  - ***Coherent pulsed Ar-Ion***
  - ***Pulse duration: 10 ns***
  - ***Pulse rate: 5 MHz***
  - ***Synchronized with camera***



HIGH-SPEED IMAGING FACILITY (Cont'd)

Ares Rosakis and G. Ravichandran

Cordin 220-16 High-Speed Digital Camera

- **High-speed digital camera**
  - ***Cordin Model 220-16***
  - ***100 million frames/second***
  - ***Intensified CCD system (electronically shuttered)***
  - ***16 frames / 800 x 600 pixels***
- **Laser system**
  - ***Coherent Ar-Ion***
  - ***10 watts continuous***

Coherent Ar- Ion Laser