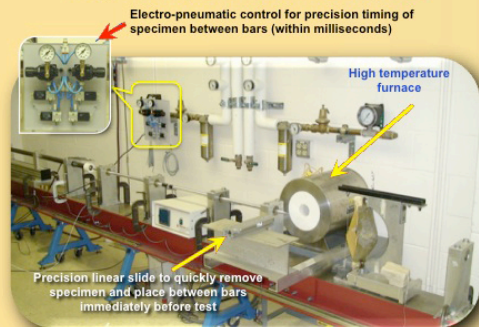


Newly Developed Kolsky Bars at Sandia California

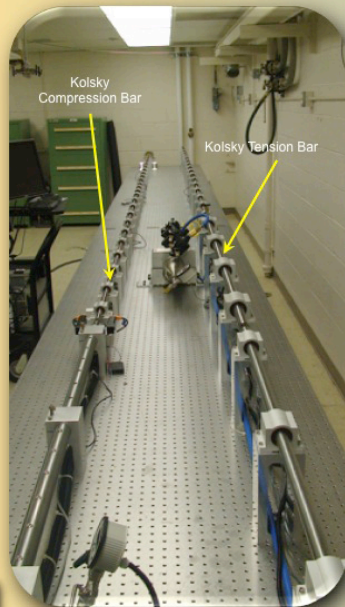
The finest Kolsky bars for high-rate characterization of materials under various loading and environmental conditions

- Kolsky Compression Bar
- Kolsky Tension Bar
- High Temperature Kolsky Bar

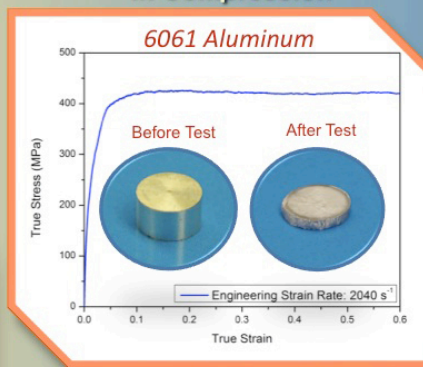
High-temperature Kolsky Bar



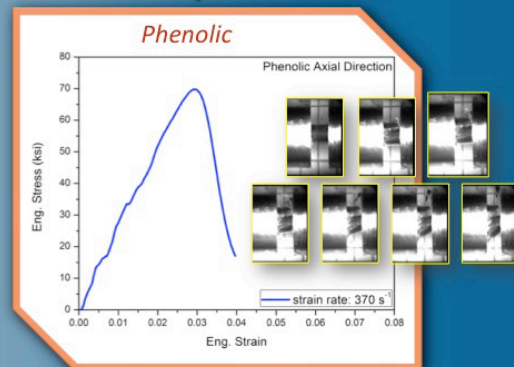
Newly Developed Kolsky Bars at Sandia California



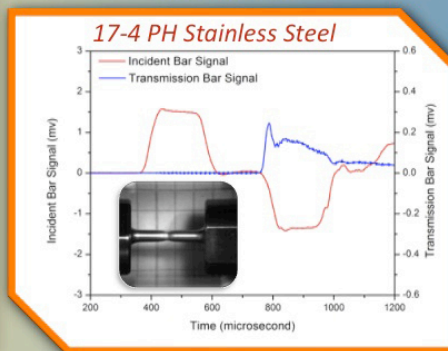
In Compression



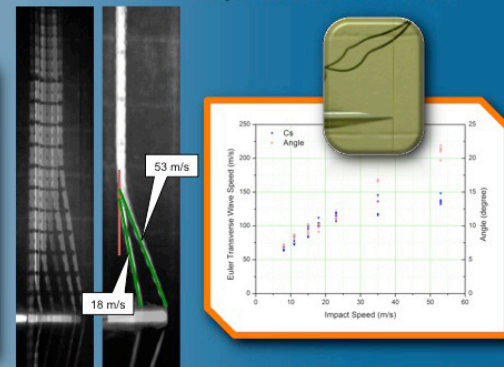
In Compression



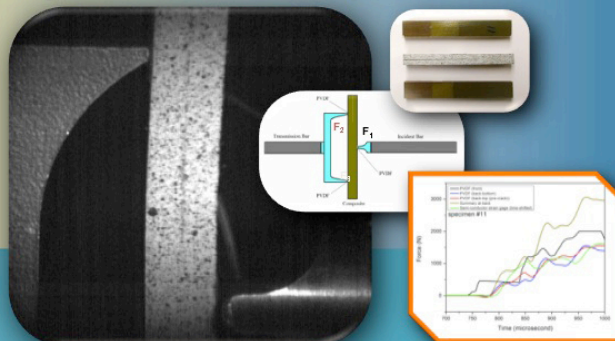
In Tension



Transverse Impact on Fiber Yarn



Dynamic Fracture of Composites



$$\dot{\epsilon} = \frac{u_1 - u_2}{l_0} = \frac{C_b}{l_0} (\epsilon_i - \epsilon_r - \epsilon_t)$$

$$\epsilon = \int_0^t \dot{\epsilon}(\tau) d\tau$$

$$\sigma = \frac{F_1 + F_2}{2A_0} = \frac{E_b A_b}{2A_0} (\epsilon_i + \epsilon_r + \epsilon_t)$$

$$\sigma \sim \epsilon$$

