DYNAMIC CONSTITUTIVE TESTING LAB

 Split Hopkinson bars are available for constitutive testing at comparatively high loading rates (strain rates up to 104). Distinct systems exist for compression, tension and torsion testing. Highspeed digital oscilloscopes have been acquired to facilitate data

acquisition.



Compression Bar



Torsion Bar

- Split Hopkinson Bars
 - Compression bar
 - Tension bar
 - Torsion bar
- Additional features
 - High temperature capability
 - High-speed temperature measurement
 - High-speed digitial data acquisition



Nicolet Digital Oscilloscope

Dynamic Materials Testing Facility

Ares Rosakis and G. Ravichandran

 A variety of loading devices are available to facilitate study of material behavior over a wide range of impact conditions.



• Air gun

from 10 to 200 m/s

Projectile masses up to 2 kg

Drop Weight Tower

Impact speeds from 1 to 10 m/s

Drop weight mass of 250 kg

