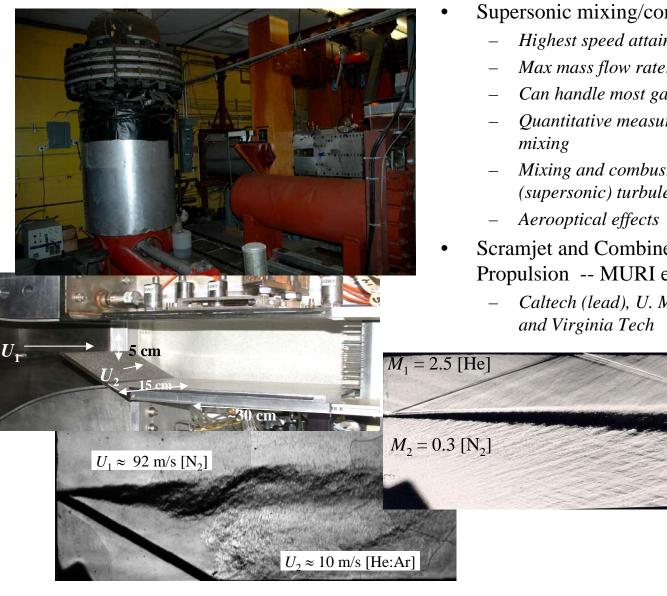
## Supersonic Mixing/Combustion Facility



- Supersonic mixing/combustion facility
  - Highest speed attained:  $U_{max} = 2 \text{ km/s}$
  - Max mass flow rate: 10 kg/s
  - Can handle most gases ( $H_2$  and  $F_2$  reactants)
  - Quantitative measurements of molecular
  - Mixing and combustion in compressible (supersonic) turbulent flows
- Scramjet and Combined-Cycle Hypersonic Propulsion -- MURI effort
  - Caltech (lead), U. Minnessota, U. Buffalo,