



## Outline

- Equipment
- Measuring particle temperature
- Yields
  - Definitions of tar, light gas, and metaplast
  - Pressure effects
  - Heating rate effects
  - Diameter effects
  - Light gas yields
- Swelling
- · Chemical composition changes during pyrolysis



































## Sandia Coal Devolatilization Work

Goal: Measure particle temperature during devolatilization





























## Yields









































## Changes in Char Composition

