Cupola Control Project

• Cupola Furnace:
  – Charged with coke, metal, and other materials
  – Hot air blast with oxygen added
  – Diameters from 2’ to 15’, melt rates from 1 to 200 tons per hour
  – An essential part of most cast iron foundries

• Project Goal:
  – Develop intelligent control of meltrate, temperature, and carbon composition
  – Develop less reliance on operator experience and develop tools for automatic control