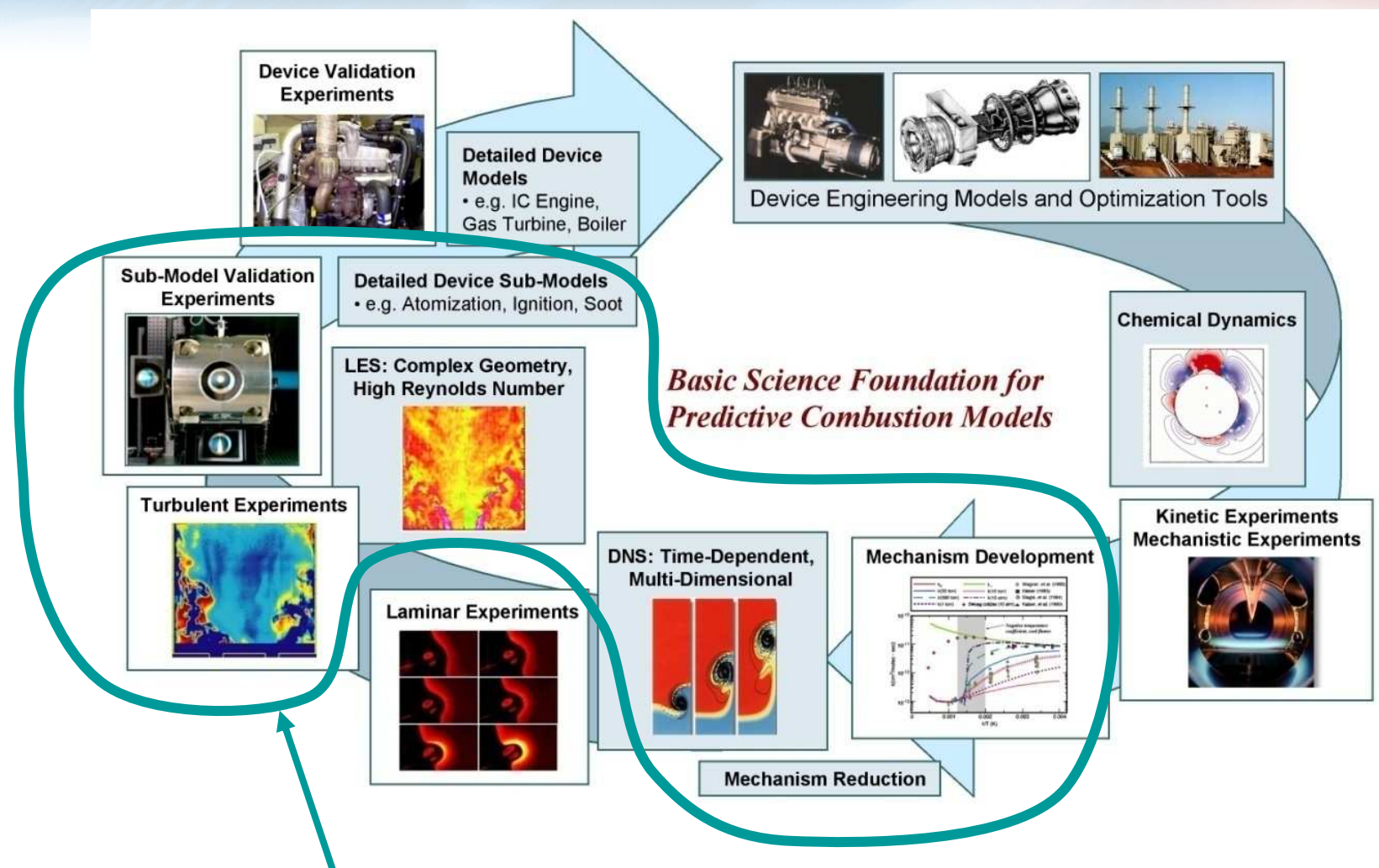


The Combustion Research Facility at Sandia National Laboratories



*A Department of Energy Office of Science
Collaborative Research Facility*

The Combustion Research Facility: Connecting Research, Innovation and Application



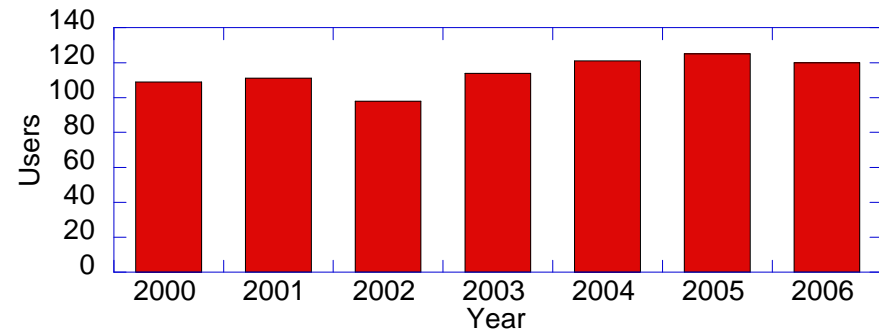
Areas of Sandia-SINTEF cooperation

CRF: Focal Point For the International Science And Technology Community

- **Keys to CRF's success:**
 - Common scientific purpose
 - Strong ties to application
 - Full spectrum: basic to applied
 - Collocation and collaboration

There have been more than 20 Sandia-SINTEF visits at both sites

Visitor Program contributes to intellectual vitality of BES Programs

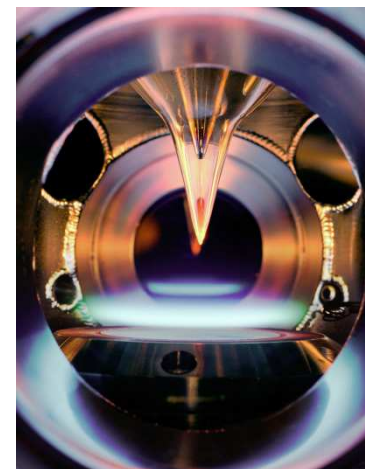
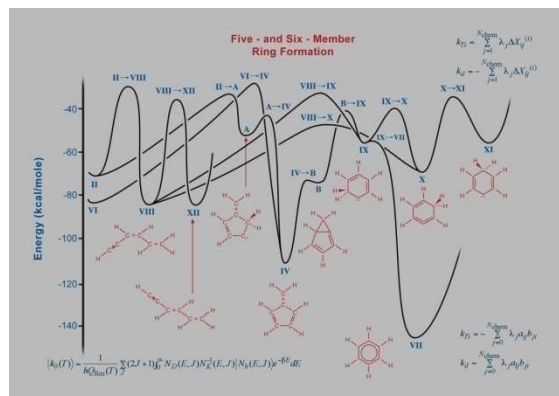
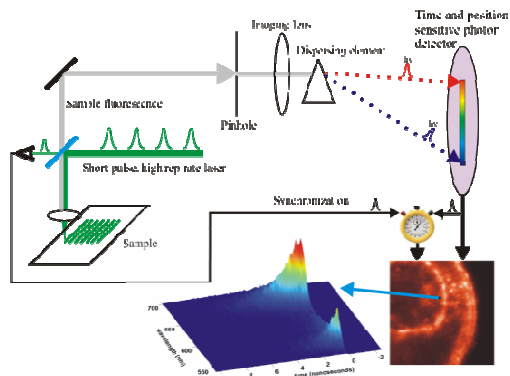


Technology Partners add to infrastructure, capability, and energy impact

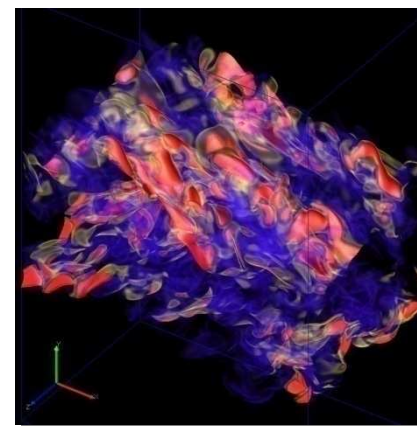
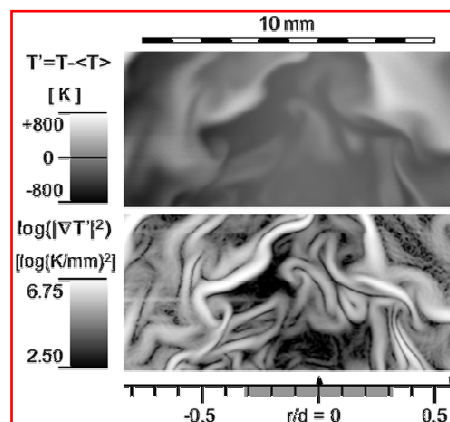
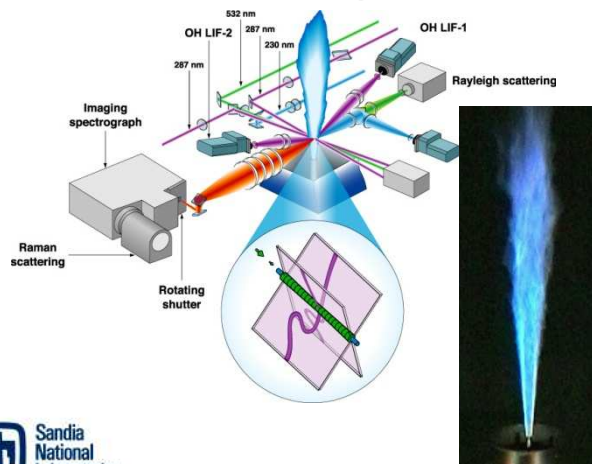


Chemical Sciences Program Is the Intellectual Cornerstone of the CRF

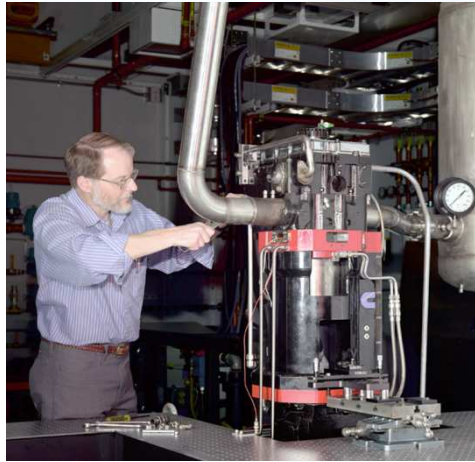
Combustion Chemistry and Diagnostics



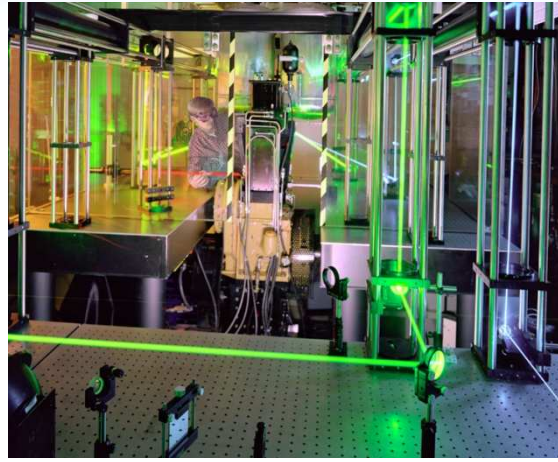
Reacting Flows



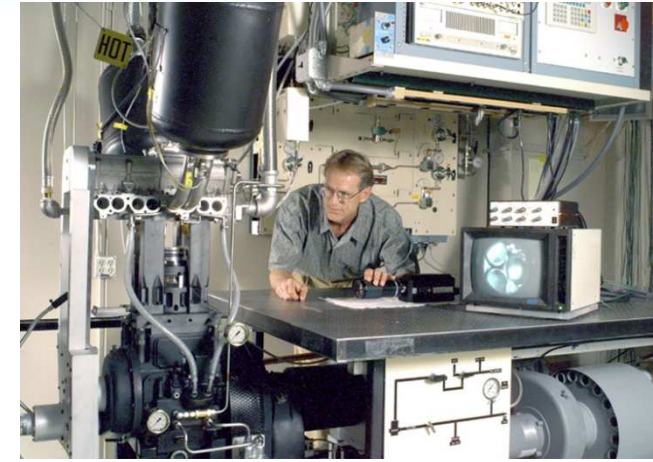
Engines Research Focuses on Improving Efficiency, Reducing Emissions



Heavy-Duty Diesel Engines



Alternative Fuels



Gasoline Engines

- Partnerships with industry characterize the program
- Laser-based optical diagnostics.
- Optically accessible, realistic engine conditions
- Simulation/modeling

