



Glenn Research Center



“Blue Sky” Potential Systems Microgravity Combustion Research Might Enable

- ◆ **Active control over thermal efficiency and pollutant generation via smart sensors**
- ◆ **Magnetic and electric field utilization to improve efficiency**
- ◆ **Insitu propellant utilization on Moon and Mars**
- ◆ **Exhaust gas monitoring for cars and other combustion devices**
- ◆ **Improved atomization methods for incinerators, diesel and gas turbine engines**
- ◆ **Flame-zone pollution control in burners [reducing the need for post-combustion cleanup such as catalytic converters, stack scrubbers, etc.]**
- ◆ **Advanced composite materials (through understanding of how to improve micro-structural uniformity, porosity via gravitational control)**