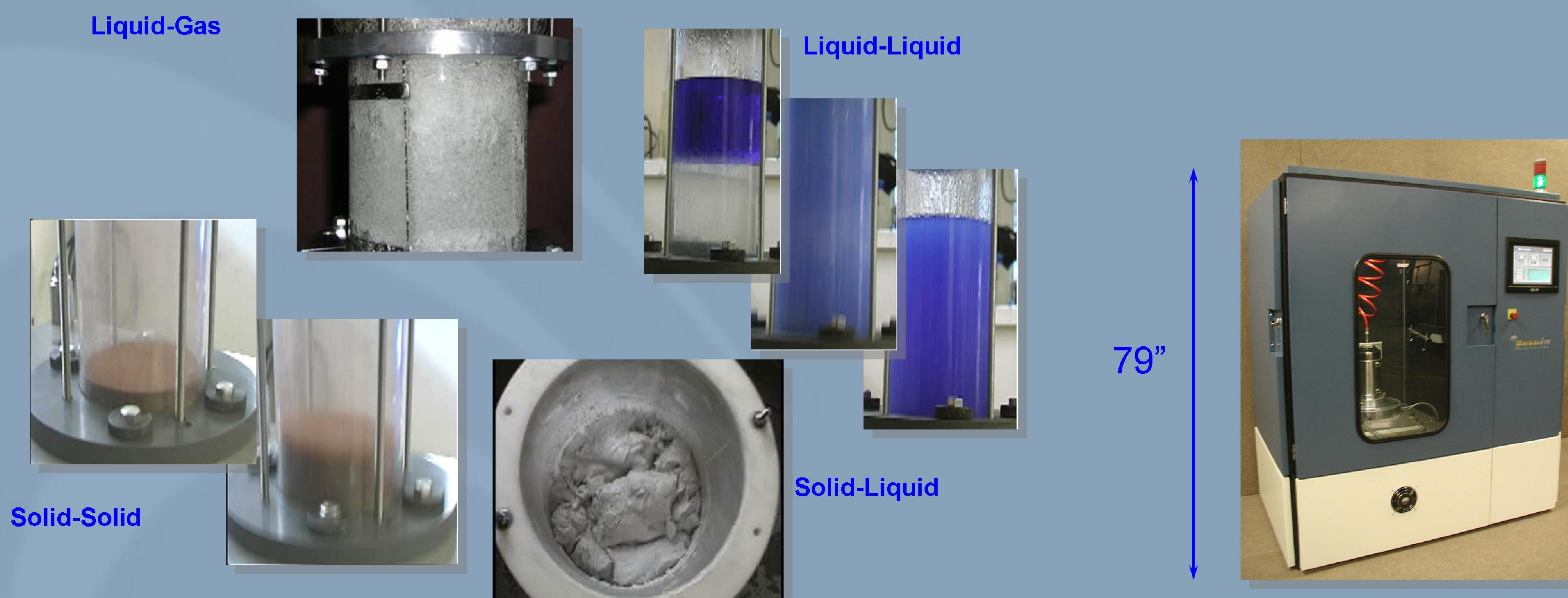
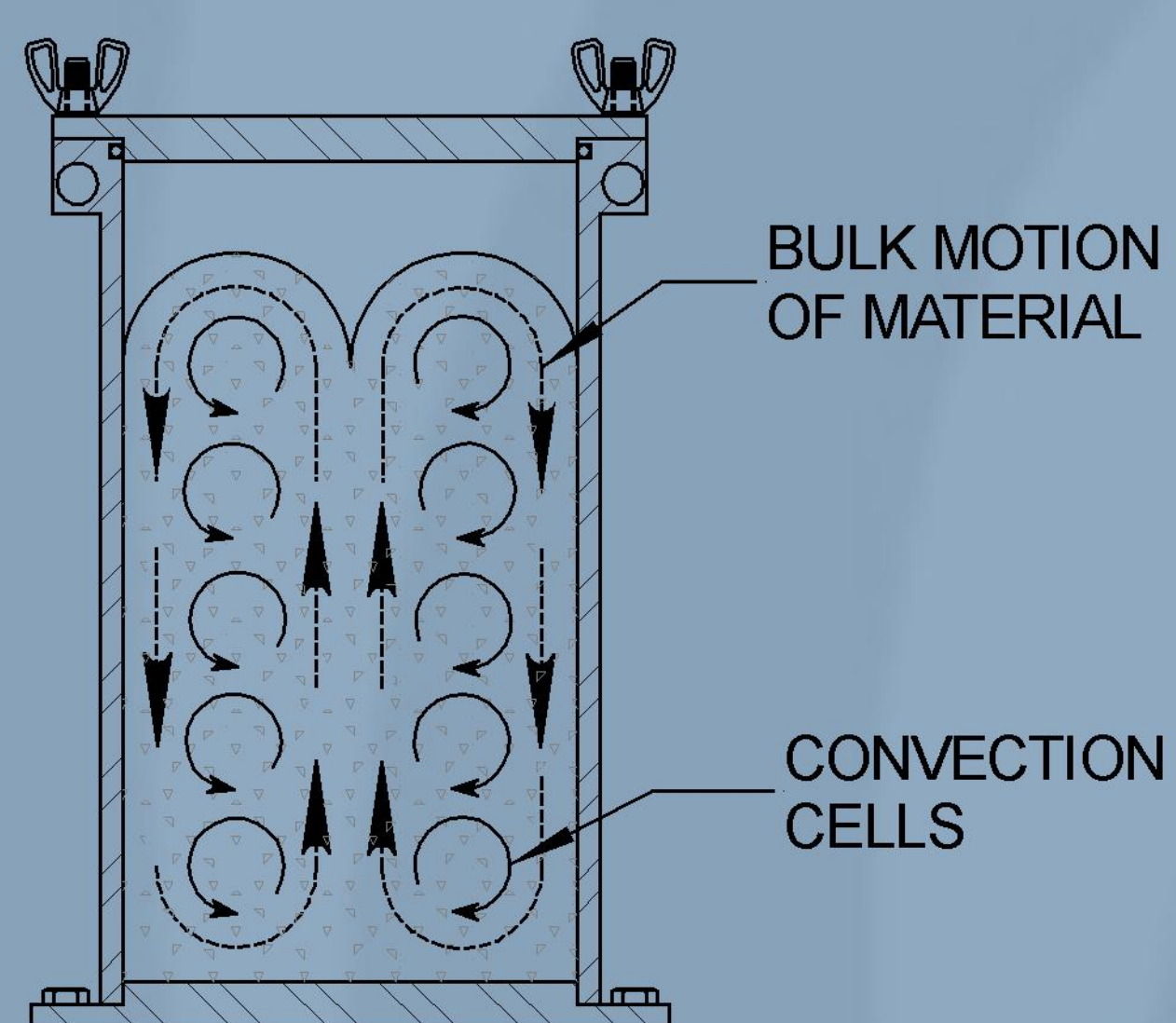


ResonantAcoustic® Mixing



Acoustic energy fluidizes and mixes the reactor contents

Simple reaction vessel with no props, blades, or shafts

Capable of 50-Hertz, 75 g's amplitude, acoustic energy flux

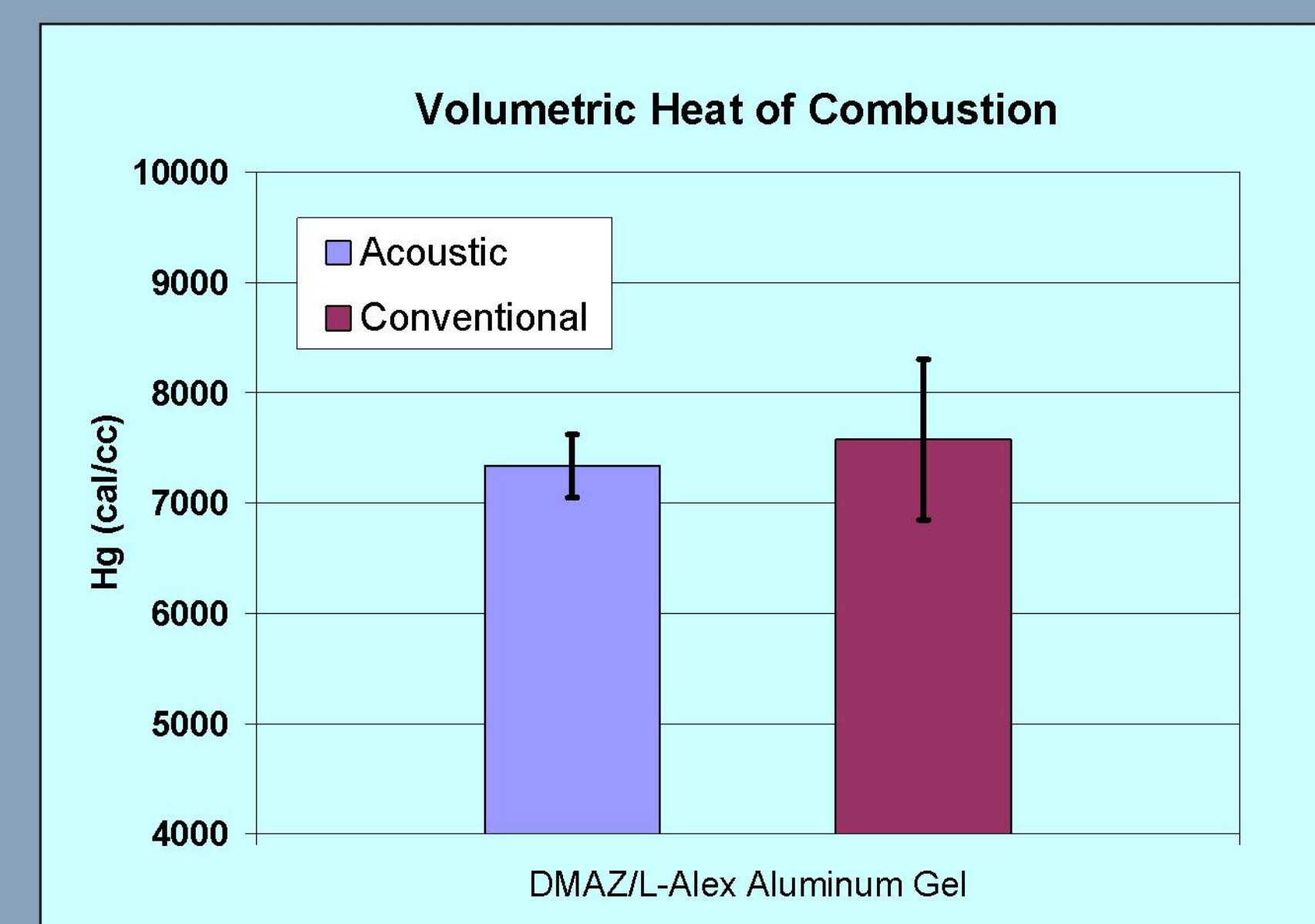
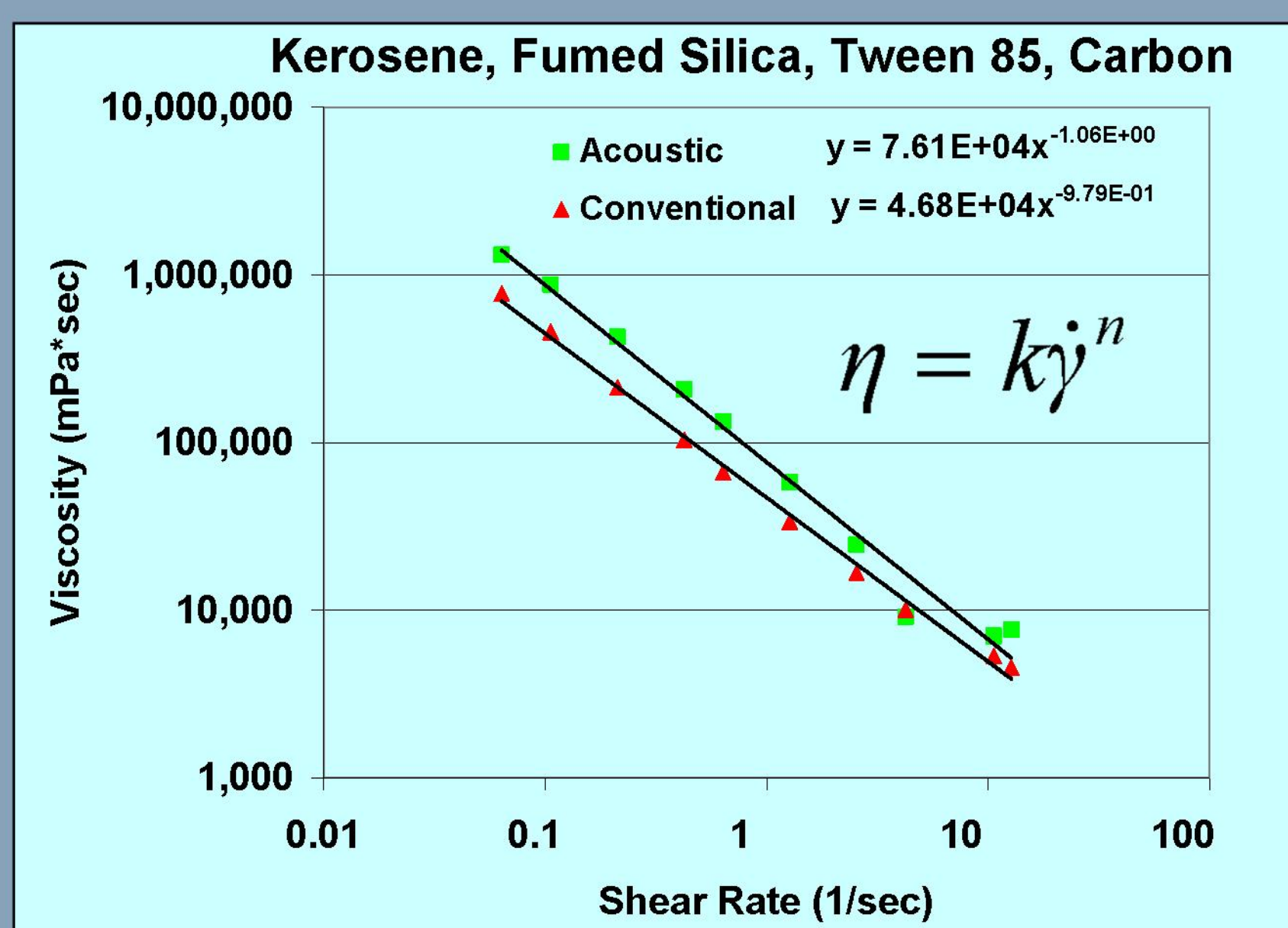
Gelled Propellants

- Fuels
 - Kerosene
 - DMAZ

- Gellant
 - Fumed silica

- Energetic
 - Nano-aluminum
 - Nano-carbon

- Surfactant
 - Tween 85

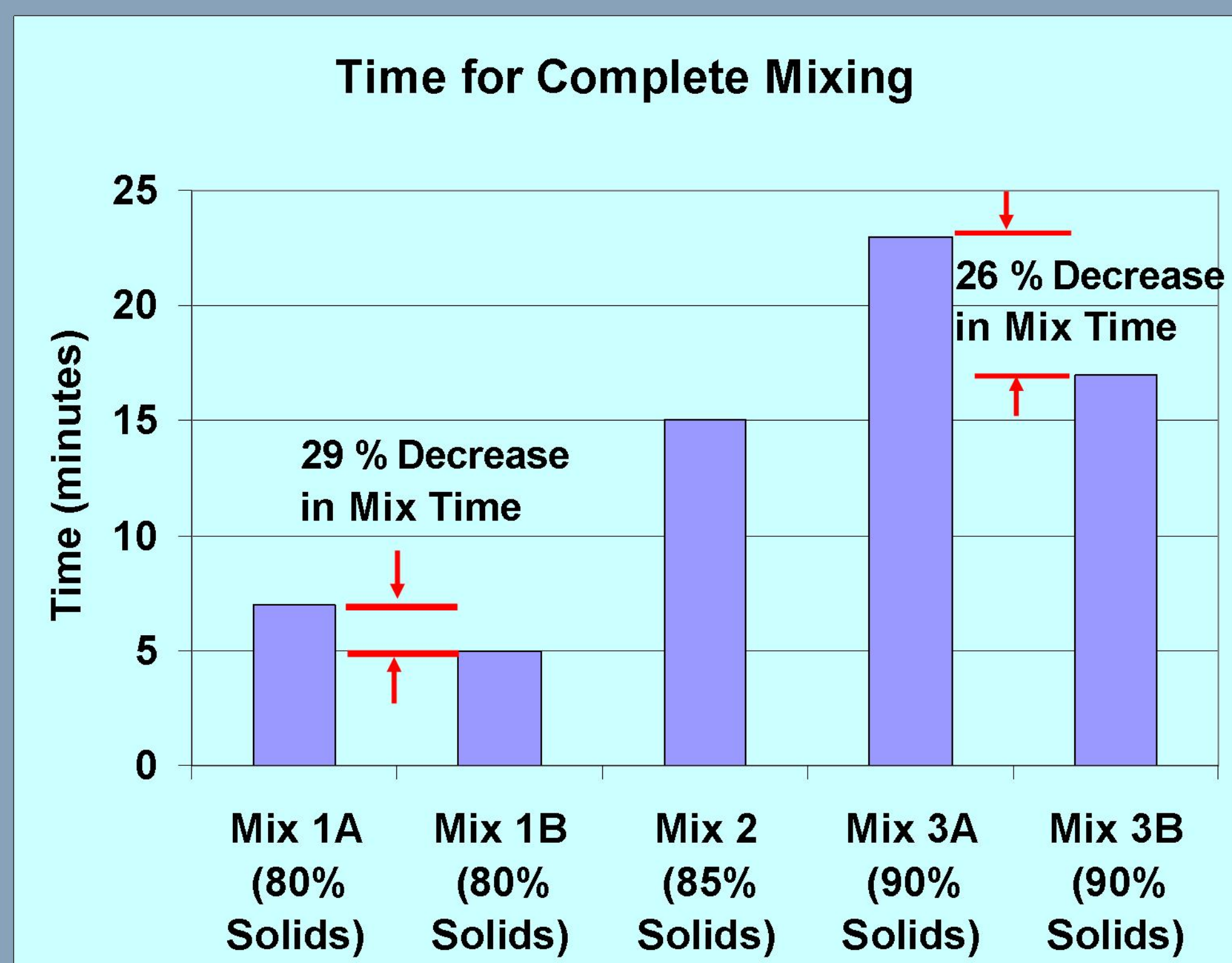


Composite Solid Propellant Simulant

Ammonium Sulfate (NH₄)₂SO₄

Powder Blend: 70 wt% 170-200 micron
30 wt% 3-5 micron
(Substituted for Ammonium Perchlorate)

Hydroxy Terminated Polybutadiene (HTPB)
Uncured viscosity = 5 poise



Acknowledgements:



Authors:

Scott L. Coguill
Resodyn Corporation
1901 South Franklin, Butte, MT
(406) 723-2222
scoguill@resodyn.com

Dr. Sue Gelderbloom
Dow Corning

Bernard M. Kosowski
MACH I