

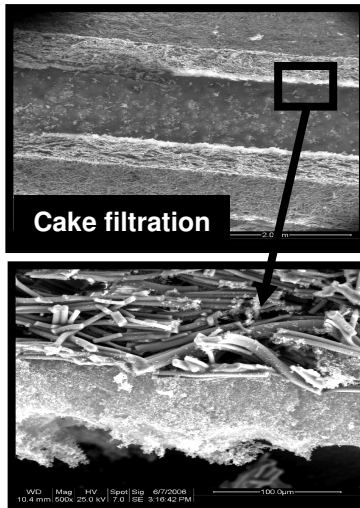
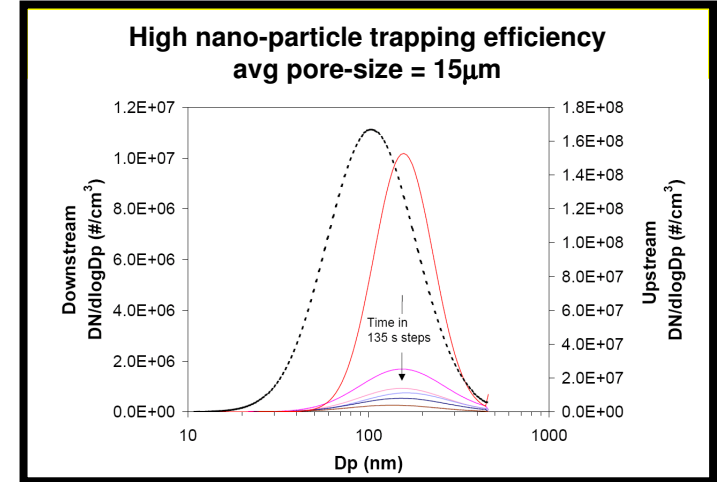
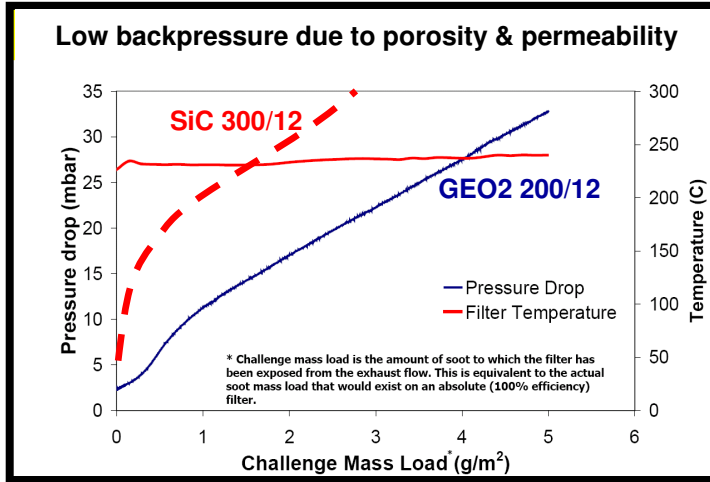
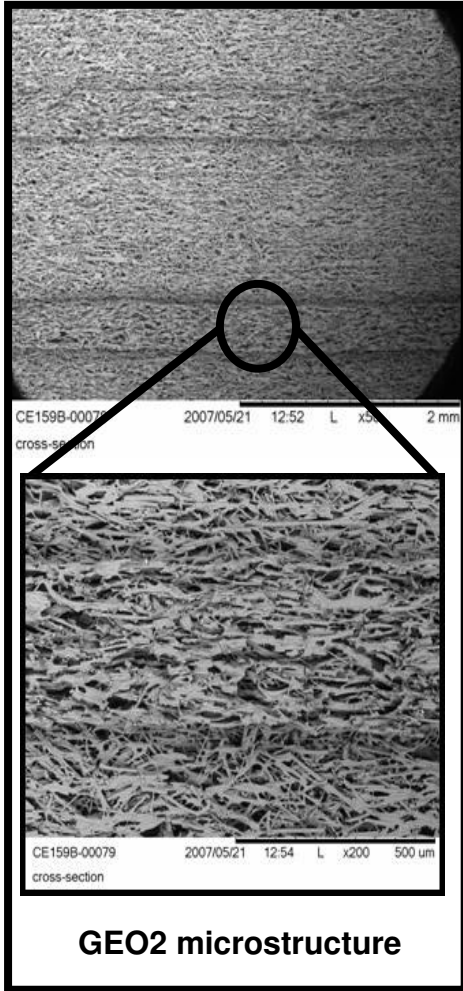
# Advanced High Porosity Ceramic Honeycomb Wall Flow Filters

Bilal Zuberi, James J. Liu, Sunilkumar C. Pillai, Jerry G. Weinstein  
**GEO<sub>2</sub> Technologies, Inc.**

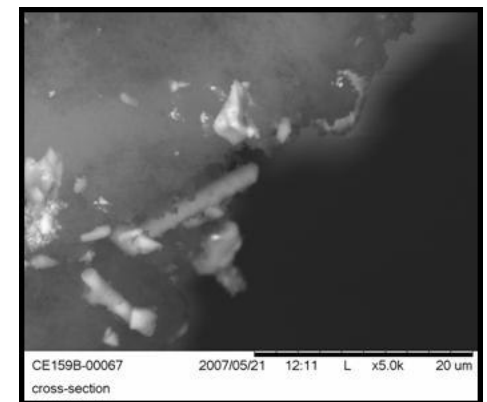
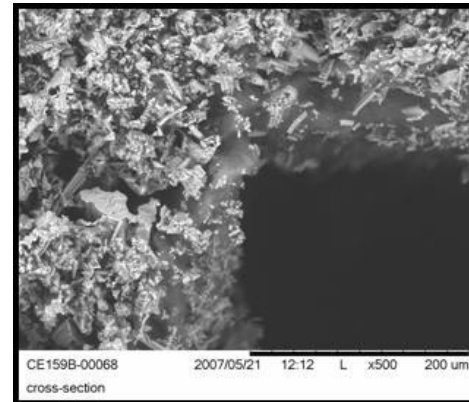
Athanasios G. Konstandopoulos, Souzana Lorentzou, Chrysa Pagoura  
**Aerosol Particle Technology Laboratory, Thessaloniki, Greece**

**POSTER LOCATION: P-15**

# High Porosity Filters For c-DPF And 4-way Filter Applications



Surface structure leads to interaction between catalyst and soot cake



- Composite-bonded material
- Unique microstructure
- High porosity
- High temperature resistance
- Oxide and SiC chemistries

	GEO <sub>2M</sub>	Cordierite (Corning 200/12)	SiC (NGK 300/12)
Porosity, pore-size (% , $\mu\text{m}$ )	67%, $15\mu\text{m}$	47%, $13\mu\text{m}$	43%, $13\mu\text{m}$
MoR (MPa)	8.6	2.2	9.4
E Modulus (GPa)	7.8	4.8	13.3