

# Supercapacitors









- $\blacktriangleright$  Another laser at 10.591 µm will be used to control the size of the
- CNOs. A fume collector will be used to collect CNOs generated from the
- flames.
- $\succ$  It is estimated that a production rate of 500 g/h will be achieved.



## Electrode **Hierarchical 3D** Supercapacitor Electrode micro/nano-structures



- The CNTs will be grown within the Ni foams to reduce the matrix resistivity and increase the SSA significantly;
- CNOs will be used to fill the remaining spacing among the Ni forms and to further increase the total SSA;
- Since all CNTs and CNOs will be filled within the Ni foams, no binder is required



ISF