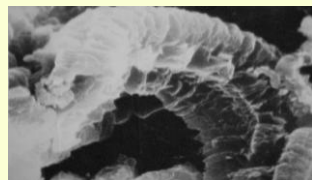


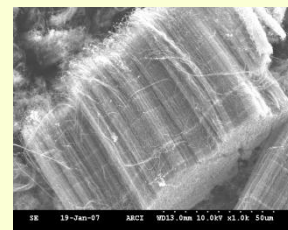
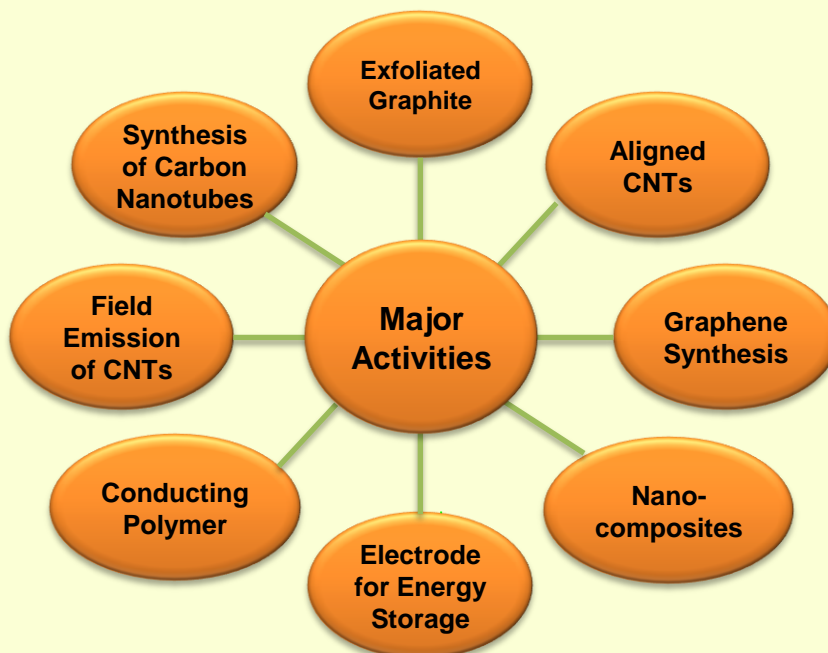
CENTRE FOR CARBON MATERIALS (CCM)



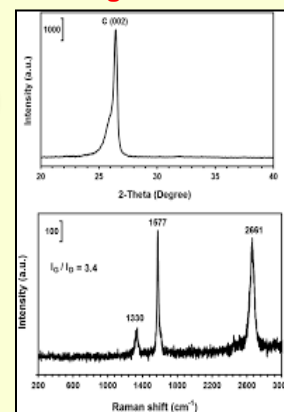
**Exfoliated Graphite
Worm**



**Flexible Graphite
Sheet**



Aligned CNTs



- ◆ Developing Innovative Processing Techniques for Technology Oriented Product Development
- ◆ Material Synthesis and Fabrication

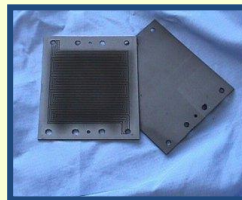
- ◆ Characterization and Testing
- ◆ Prototype Development
- ◆ Technology Transfer

MAJOR PROCESSING CAPABILITIES

- Exfoliation of Graphite
- Flexible Graphite Sheets
- Graphite Seals
- Graphite Gaskets
- Bipolar Plates for Fuel Cell
- Graphite Boards
- Oil Adsorption
- Synthesis of carbon nanotubes
- Synthesis of Graphene
- Field Emitter (Aligned CNTs)
- Nano-electrodes for Supercapacitor
- CNTs based Nano-composites
- Conducting Polymers (CNTs)
- Nanofluids (CNTs)
- CNTs based Sensor



Exfoliated Graphite Products

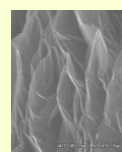
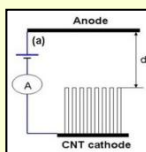
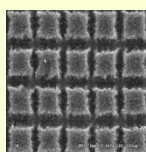
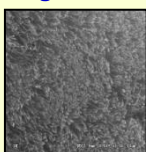


Aligned Patterned CNT & Field Emission

GNP



Arc discharge Set up



CVD Set up

LFA

TMA



Sputtering Unit

MAJOR FACILITIES

- Exfoliation of Graphite
- Pressing and Rolling
- Arc Discharge Set up
- Chemical Vapor Deposition
- Fluidised Bed Reactor
- Arc-under water
- Sputtering Unit
- Planetary Mill

CHARACTERIZATION

- Thermal Diffusivity (Cond.) Analyser (LFA)
- Simultaneous Thermal Analyser (STA)
- Thermo Mechanical Analyser (TMA)
- Zeta Sizer
- Rheometer
- UV Spectrometer