**Societal Impacts of Carbon Nanotube Applications**

Carbon nanotubes, the cylindrical arrangements of graphene sheets, are a new and promising material with applications in many fields. The sp2 hybridized bonds between the carbon atoms give carbon nanotubes incredible strength (withstanding 50 GPa), electrical and thermal conductivity (up to 1000x that of Cu), and energy storage (in Li-ion batteries). Current use of the material has been limited to bulk nanotubes as composite fibers in polymers, but potential applications include use in microelectronics as transistors, improvement of solar photovoltaic efficiency, environmental cleanup and desalination, and infusion within sheets of cellulose to develop so-called paper batteries.