

# **IEEE KITCHENER-WATERLOO**

## **SECTION PRESENTATION**

**Professor William I. Milne**

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### **Growth and Applications of Carbon Nanotubes**

Carbon Nanotubes are a unique form of Carbon filament/fibre in which the graphene layers roll up to form tubes. They have several properties which make them extraordinary materials for technological applications viz. exceedingly high conductivity, high thermal conductivity, high mechanical strength, covalently bonded (limits electromigration) with few dangling bonds. Single Wall CNTS can exhibit metallic or semiconducting behaviour whereas multi-wall CNTS are metallic in nature. This talk will cover the growth of both multi-wall and single wall carbon nanotubes and discuss their potential applications.

**DATE: Friday October 24 , 2004**

**TIME: 3:30 pm**

**LOCATION: DC 1302, Davis Centre, University of Waterloo**

**ALL ARE WELCOME!!**

Invited by Arokia Nathan  
Refreshments will be served

**Wine and cheese reception to follow in DC1301**

**Professor Milne will receive the Honorary Doctor of Engineering Degree  
at the University of Waterloo's Fall Convocation on October 25, 2003.**