

**CARBON NANOTUBE BASED FLOW SENSOR**

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Carbon nanotubes have been the object of intense study for the last decade with demonstrated capabilities as chemical and biological sensors. Because of their nanoscale dimensions, they also have potential to be used as probes for sensing and investigating fluid properties at very small length scales where new fluidic phenomena may become observable. While S. Ghosh et al. [1] have already reported the use of bulk carbon nanotube mats as flow sensors inside millimeter-scale glass tubes, obtaining individual nanotube devices remains highly desirable. We are exploring this area and we will discuss our latest experimental results on carbon nanotube devices which operate on a different flow sensing mechanism than reported by S. Ghosh et al.

**References:**

[1] Ghosh et al., Science, **299** (2003) 1042.