

Abstract Submitted
for the 4CF09 Meeting of
The American Physical Society

Carbon Nanotube templated structures RICKY WYMAN, ROBERT DAVIS, RICHARD VANFLEET, JUN SONG — Carbon nano tubes are of great interest to science due to their strong mechanical and exotic electrical properties. Nano tubes have potential application in transistors, micro electrical mechanical devices (MEMS), and structural materials. We have been using nanotube forests as a template to fabricate larger scale structures. The nanotube template is infiltrated with another material (like silicon or carbon). This infiltration can be thin to stabilize the forest and make a porous structure or thick to make a solid structure. Different methods employed at Brigham Young University of patterning, growing, and infiltrating nano tubes are presented on a poster along with applications.

Ricky Wyman

Date submitted: 28 Sep 2009

Electronic form version 1.4