# Speaker Profile



# **Contact Details**

Organization Name: Northeastern University

Address:
Department of
Mechanical and
Industrial
Engineering
Northeastern
University
265 Snell

**Engineering Building** 

Boston, MA 02115

**Phone:** (617) 373 4843

**Fax:** (617) 373 2921

Email: jungy@coe.neu.edu

Website:

Name Yung Joon Jung

Title Assistant Professor

**Institute** Department of Mechanical and Industrial Engineering Northeastern University

# **Education**

-Rensselaer Polytechnic Institute: Ph.D. in Materials Science and Engineering (2003)

-Inha University: B.S. in Metallurgical Engineering (1999)

#### **Professional Experience**

**-Assistant Professor** (08/05-Current) Northeastern University, Boston, MA, USA

-Post-Doctoral Research Associate (08/03- 07/05) Rensselaer Polytechnic Institute, Troy, USA

Interconnect Focus Center-New York program: Controlled growth and application of organized carbon nanotube structures as interconnect materials in future semiconductor devices and

-Visiting Researcher (05/02-12/02)
NTT Basic Research Laboratories, Atsugi, Japan

NEDO program: Nanointegration through semiconductor nanostructures and self-assembly of single-walled carbon nanotubes using various nano-fabrication techniques and chemical vapor deposition method

## **Research Interest**

-Controlled synthesis, modification, and integration of onedimensional nanomaterials (carbon nanotubes and nanowires) -Fabrication and Engineering of heterostructured nanomaterials -Direct applications of organized nanotube/nanowire building blocks for functional flexible polymer-carbon nanotube devices and systems

### Recent selected publications

"Aligned Carbon Nanotube-Polymer Hybrid Architectures for Diverse Flexible Electronic Applications"

Y.J.Jung, S. Kar, S. Talapatra, C. Soldano, G. Viswanathan, X. Li, Z. Yao, F.S. Ou, A. Avadhanula, R. Vajtai, S. Curran, O. Nalamasu, and P. M. Ajayan, *Nano Letters* 6 (3), 413 -418 (2006)

"Controlled Synthesis of Hierarchically Branched Carbon Nanotubes via Rationally Designed Porous Templates" G. Meng, Y.J. Jung, A. Cao, R. Vajtai, and P.M. Ajayan, *PNAS*, 12(20), 7074 (2005).

