

# Nano Science and Technology (NST)

## Theme

Four topics shown below will be covered each year with rotating focused topic every year. The focused topic in 2007 was Nano-energetics, and that in 2008, Nano-Bio/Medicine. In 2009, the main focus will be on both Nano-materials and Nano-energetics.

## Scope

This year symposium will be focusing on the topics of new nano-materials and nano-energetics: new nano-materials, and nano-materials application for the construction of renewable (green) energy devices such as solar cells, fuel cells, super-capacitors, etc. The synthesis of new nano-materials with unique physical, chemical and electrical properties is supposed to be one of the platform technologies for the development of new energy devices including bio-medical devices & sensors. Especially for this year symposium, we would like to invite speakers in the areas of new nano-materials, eco-friendly syntheses of the materials, and the materials application for the energy devices. The research of these areas is inherently international, international partnership, such as US-Korea collaboration that can provide technology insights for the successful development of the devices for the future green society.

## Topics

- 1) Nano-Materials: New Compositions and New Synthesis Processes
- 2) Nano-Energetics: Nano Materials Application for Energy Devices
- 3) Nano-Bio/Medicine: Diagnostic (Cancer Imaging) and Treatment Applications
- 4) Nano-Electronics: Lithography, New Thin Film Materials and Fabrication

## Key Speakers

- Mr. James Von Ehr (Founder and President of Zyvex Group, Dallas, Texas)

## Symposium Chair and Co-Chairs & Committee Members

Symposium Chair	
<b>Duck-Joo Yang</b> (University of Texas, Dallas) <a href="mailto:djyang@utdallas.edu">djyang@utdallas.edu</a>	
Symposium Co-Chair	
United States	Korea
<b>Duck-Joo Yang</b> (UT Dallas)	<b>Sang-Hee Suh</b> (Center for Nanostructured Materials Technology)
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United States	Korea
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