



# NSEC Research Groups Directed Assembly of Nanostructures

- Multiscale Theory and Modeling : Group leader (Pawel Keblinksi, RPI)
- Nanoparticle Gels and Polymer Nanocomposites
  - : Group leader (Jennifer A. Lewis, UIUC)
- Nanostructured Biomolecules Composite Architectures
  - : Group leader (Jonathan S. Dordick, RPI)
- Characterized Nanostructured Materials : Group leader (Pulickel M. Ajayan, RPI)



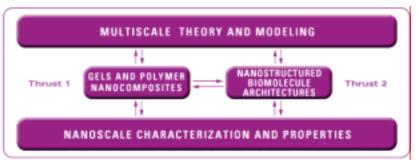








# Synergy & Multidisciplinary Approach on "Nanomaterials"



Session 3 (First Korea-US NanoForum) Materials, Simulation, Fabrication and Education 2:05 pm – 2:25 pm, 10/14/2003 (Tuesday)

## Assembling Nanomaterials



Richard W. Siegel

### Rensselaer Nanotechnology Center Rensselaer Polytechnic Institute



U. S. – Korea Forum on Nanotechnology Seoul, Korea 14 October 2003



### **Education & Outreach Program**

Coordinator: Linda S. Schadler (RPI)



#### **Kindergarten through Grade 12**

"BOAST"

"Bringing Nanotechnology to the Classroom"

"Explore Your Options"

"Nanoscope"

The Junior Museum Project

Turning Fun Into Scholarship ...and Kids Into Scholars

'The Molecularium'

#### **Undergraduates**

Educational Partnerships with Select Undergraduate Colleges

Nanotechnology Course Listing

#### **Graduate and Continuing Education**

Archer Center for Student Leadership Co-op Program

Nanotechnology Course Listing

#### **Professionals**

Annual Workshops Visiting Scholars

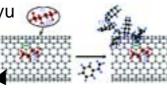




## NSEC & my research

Chang Yeol Ryu 🔊







- Single Step In Situ Synthesis of Polymer-Grafted Single-Wall Nanotube Composites (Ryu & Ajayan) *J.A.C.S.-Comm* (2003)125, 9258.
- Selective Positioning and Density Control of Nanotubes within a Polymer Thin Film (Ryu & Ajayan) Nano Letters (2003) 3(10), 1333.



→ Block Copolymer Nanopatterning

Flexible Display TFT materials
: Role of mesoscale morphology
"Nano-rods" in poly(hexyl thiophene)
(Ryu and Z. Bao) - Poster

