Education Resources Mentioned by Participants

NanoKids at Rice University
http://cohesion.rice.edu/naturalsciences/nanokids/mission.cfm?doc_id=3039

NanoSense, SRI International
http://nanosense.org

NASA Ed. Tech Media Group
http://www.ipt.arc.nasa.gov/

Nanohands, Denmark (nanovolkswagon?)
Course on nano that uses science fiction – Purdue U.
http://web.ics.purdue.edu/~bross/373/373schedule.htm

Hands-on

A Drop to Drink
http://www.exploratorium.edu/xref/exhibits/a_drop_to_drink.html

Self-assembly with Legos
http://www.physics.unc.edu/classes/fall2004/phys006d003/Lego_Self_Assembly_Pamphlet_Final.pdf
http://mrsec.wisc.edu/Edetc/LEGO/magbrick.html

Ontario Science Center–memory wire, property of materials, visceral exhibitions
http://www.strangematterexhibit.com/

The Franklin Institute, Philadelphia–Material Matters floor
http://www.fi.edu/tfi/info/demos2.html

AFM Model using pen plotter

Diluting Kool-Aid (SEPUP)
http://www.nap.edu/readingroom/books/rtmss/3.10.html

NanoZone, Lawrence Hall of Science
http://www.lawrencehallofscience.org/exhibits/nanotechnology.html

Self-assembly layer model with bubbles. Blow out bubbles all one same size; they will space themselves out in one layer to achieve lowest energy. Teaches self-assembled mono layers, and about low energy states: if you pop an a bubble in the middle, all others will rearrange. Shows you can't manipulate one atom.

Foams on the cutting edge
http://www.memagazine.org/backissues/january99/features/foams/foams.html

Pockets that hold water – coatings (NanoTex)

http://www.nano-tex.com/

Nano arts at UCLA
http://nano.arts.ucla.edu/

Paper model of virus (cm -> 10^6) powers of 10
Order objects on a line according to size

Life in moving fluids course (Steven Vogel)
http://www.tufts.edu/as/tampl/cbl/en25/
http://www.pupress.princeton.edu/titles/5523.html

Virtual

MRSEC Exploring the NanoWorld
http://mrsec.wisc.edu/Edetc/

Molecular Workbench, Concord Consortium
http://workbench.concord.org/

Molecular Stepping Stones, Concord Consortium
http://molo.concord.org/database/browse/stepping-stones/
Background on biotech and nanotech needs for high school

Other self-assembly demos
http://www.math.udel.edu/MECLAB/Projects/SelfAssembly/selfassembly1.htm

LEGO AFM
http://mrsec.wisc.edu/Edetc/OLD%20LEGO/LEGO/MFM/
http://www.physics.unc.edu/~falvo/NUE/LEGO_AFM_WEBPAGES/web_files/nanoworld.html

AFM simulator
http://www.nanoscience.com/education/newsletter/fall03/Nanoadvisor_Fall03.pdf

Narrative

Mystery of Sick Puppy (PBL) – middle HS
http://ced.ncsu.edu/nanoscale/nanoteched.htm

“Jack-Jack” in Incredibles DVD extra

Powers of 10 movies, such as Molecular Expressions tutorial at
http://micro.magnet.fsu.edu/primer/java/scienceopticsu/powersof10/

Mr. Tompkins Universe (Gamow)
http://www.cambridge.org/uk/popsci/catalogue/0521630096/

Alice in Quantum Land
http://www.peterussell.com/SCG/Alice.html