



Sharing Science Workshop & Practicum Resources for Nanoscience Education & Outreach

Although the SSW&P can be applied with scientists and engineers from any field of research, we maintain this list of resources focused on nanoscale informal science education, reflecting the fact that the SSW&P was first developed in collaboration with university-based nanoscale science and engineering research centers, and dissemination of this Guide was supported by the Nanoscale Informal Science Education Network.

- **NISE Network** - <http://www.nisenet.org/> (click on [Programs and Activities](#) on the top menu)
A searchable online catalog of nanoscience programs and activities that have been developed, tested and evaluated by museum professionals and scientists active in the NISE Network - a nationwide community of researchers and informal science educators dedicated to fostering public engagement in nanoscale science, engineering and technology. NISE Net also offers many professional resources. Their companion site geared to public audiences also has resources - it can be found at <http://www.whatisnano.org>.
- **NISE Network Content Map** http://www.nisenet.org/catalog/tools_guides/engaging_public_nano
The NISE Network content map articulates the 4 key ideas the network has identified as the most important for engaging the public in learning about nanoscale science, engineering, and technology.
- **NanoNerds YouTube Channel** - <http://www.youtube.com/NanoNerds>
This much trafficked channel produced by the Strategic Projects Group at the Museum of Science, Boston, is full of short videos, researcher talks for public audiences, news stories and podcasts, and examples of hands-on demos and animations created by early career researchers who are graduates of the *Sharing Science Workshop & Practicum* and Museum of Science internship programs. Videos from the popular *Talking Nano* DVD set (www.talkingnano.net) are also posted here.
- **National Nanotechnology Initiative's Nanotech 101** - <http://www.nano.gov/nanotech-101>
A general introduction to nanotechnology and its potential for broader audiences by the National Nanotechnology Initiative (NNI) - a multi-agency U.S. Government program that coordinates Federal efforts in nanotechnology. They have a comprehensive "Education" section with links to additional resources (<http://www.nano.gov/education-training>). You can also download/print their brochures for the public – "Nanotechnology: Big Things from a Tiny World" (<http://www.nano.gov/node/240>) and "Nanotechnology and Energy: Powerful Things from a Tiny World" (<http://www.nano.gov/node/734>)
- **The Big Ideas of Nanoscale Science & Engineering**
http://www.nsta.org/store/product_detail.aspx?id=10.2505/9781935155072
An overview of the "big ideas" of nanoscience that children/teens need to understand about this emerging field. This guidebook by Shawn Stevens, LeeAnn Sutherland and Joseph Krajcik covers pathways to the learning goals and children's likely misconceptions about the concepts.
- **The Amazing Nano Brothers Juggling Show**
<https://www.facebook.com/TheAmazingNanoBrothersJugglingShow>
This hilarious 40 minute romp through physics, chemistry, and nanoscale forces delights family and school audiences and is available as a travelling show for theaters, schools, museums, and science festivals. For more information, contact <mailto:nano@mos.org>
- **Exploring the NanoWorld Activities & Resources** <http://education.mrsec.wisc.edu/index.htm>
An online collection of materials, activities and resources from the University of Wisconsin – Madison MRSEC (Materials Research Science and Engineering Center) developed by their Interdisciplinary Education Group.