

The National ATE Center for Nanotechnology Applications and Career Knowledge (NACK) Webinar Handout
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Ways of Introducing Nanotechnology Into Your Program

PRESENTERS:

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Webinar Key Objectives:

1. Projections for nanotechnology workforce needs
2. Key points for nanotechnology outreach and outreach resources
3. Resources and training opportunities available to educators through NACK
4. Other examples of resources that are available for the integration of nanotechnology (websites, experiments, learning modules, etc.)

Video Resources:

Nova Making Stuff Series (2011): <http://www.pbs.org/wgbh/nova/tech/making-stuff.html>

- Hour-long video series on how nanotechnology is making stuff stronger, smaller, cleaner, and smarter.

How Small Is A Nanometer? (You Tube) http://www.youtube.com/watch?v=o2aas8P_jgY

Additional Web Resources – Government organizations:

National Nanotechnology Initiative

<http://www.nano.gov>

National Nanotechnology Infrastructure
Network (NNIN) - Nano Education Portal

http://www.nnin.org/nnin_edu.html

NIOSH Safety & Health Topic:
Nanotechnology

<http://www.cdc.gov/niosh/topics/nanotech/about.html>

EPA Center for Environmental
Implications of Nanotechnology

<http://www.ceint.duke.edu/>

National Cancer Institute

<http://nano.cancer.gov/>

NASA:

<http://www.nasa.gov/centers/ames/research/technology-onepagere/nanotechnology-landing.html>

NASA:

<http://quest.nasa.gov/projects/nanotechnology/resources.html>

USDA

<http://www.csrees.usda.gov/nanotechnology.cfm>

Consumer Product Safety Commission

<http://www.nano.gov/node/139>

CDC

<http://www.cdc.gov/niosh/topics/nanotech/>

National Institute of Standards & Testing

<http://www.nist.gov/nanotechnology-portal.cfm>

Nano You (European Union)

<http://nanoyou.eu/>

Additional Web Resources – Resources: NSF and Educator Affiliates

NSF

<http://www.nsf.gov/news/overviews/nano/index.jsp>

Nano4me.org for educators

<http://nano4me.org/educators.html#contenttop>

NanoHUB:

<http://nanohub.org/education/nanocurriculum>

Nanoscale Information Science
Education Network (NISE)

<http://www.nisenet.org/>

Nano Education Portal of the
Nanotechnology Center for Learning &
Teaching (NCLT)

http://community.nsee.us/index.php?option=com_content&view=frontpage&Itemid=227

Nano-Link

<http://www.nano-link.org/index.html>

Southwest Center for Microsystems

Engineering (SCME) www.scme-nm.org

Center for Advanced Materials &
Nanotechnology

<http://www.lehigh.edu/nano/>

University of Wisconsin-Madison
Materials Research Science and
Engineering Center

<http://mrsec.wisc.edu/MR--Home.php>

Maricopa Advanced Technology
Education Center

<http://www.matec.org/>

University of Puerto Rico

<http://www.upr.edu/>

DiscoverNano (Northwestern University)

<http://www.discovernano.northwestern.edu/index.html>

Mid-Content Research for Education &
Learning (NanoLeap)

<http://www.mcrel.org/NanoLeap/>

NanoZone

<http://nanozone.org/index.htm>

Additional Web Resources – Resources: Private/Independent

The Project on Emerging
Nanotechnologies (PEN)

<http://www.nanotechproject.org/>

Network for Computational
Nanotechnology

<https://nanohub.org/groups/ncn>

PBS for Kids

http://pbskids.org/dragonflytv/nano/wans_701.html

Nanooze (Kids magazine)

<http://www.nanooze.org/>

Sciencedaily (Nanotechnology)

http://www.sciencedaily.com/news/matter_energy/nanotechnology/

Small Times

<http://www.electroiq.com/nanotech.html>

The Nanotechnology Group Inc.

<http://www.tntg.org/>

Power of Small

<http://powerofsmall.com/>

Nano Letters (journal)

<http://pubs.acs.org/journal/nalefd?cookieSet=1>

American Chemical Society Nanotation
(journal)

<http://community.acs.org/nanotation/>

Nanodictionary

<http://www.nanodic.com/>

Diigo (nanotechnology web-seminars)

<http://www.diigo.com/list/nsdlworkshops/web-seminar-nano>

National Council for Advanced
Manufacturing

<http://www.nacfam.org/>

Institute of Nanotechnology

<http://www.nano.org.uk/careers-education/education>

European Nanotechnology Gateway

<http://www.nanoforum.org/>

Nanopolis (Exploring Nanotechnology)

<http://nanotech.nanopolis.net/>

NanoTecNexus

<http://www.nanotecnexus.org/nanobionexus>

Foresight Institute

<http://www.foresight.org>