

## EPA – Nanotechnology

The website for the Environmental Protection Agency has a department allocated for the emerging technologies at the nano-scale. They are primarily concerned with how this new technology can effect the environment in any way possible, but they offer an abundant amount of content that ranges from new products hitting the markets or still in research to fact sheets about nanotechnology and the site even employs great sections on archived lectures and publications.

On the very front page of the website is also a link to the U.S. Environmental Protection Agency White Paper on Nanotechnology which offers some great information on environmental benefits of nanotechnology, risk management and statutes, risk assessment of nanomaterials, EPA's research needs for nanomaterials, and recommendations for the industry and government. This white paper is an excellent resource and offers an abundant amount of information with unbiased presentation.

### Biases

There are really no biases which are shown through the content on the site. Of course many of the facets of nanotechnology appear to be scrutinized heavily within the site, but that is not to say that the EPA is for regulation or deregulation, which would show some sort of bias. There is also much unbiased information presented which explains the basics of nanotechnology that most people could understand easily.

### Longevity

The first workshop held by the EPA Nanotechnology was in August of 2002 which brought together 58 leaders from industry, government and academia to face the growing concern with nanotechnology and begin an initiative for further research on the topic.

### Presentation of Information

The information presented on the EPA's website is excellent and basically covers every aspect of nanotechnology that is out there. There is a really great amount of information to be uncovered and the list of links heads you to places such as the NNI, Smalltimes – The Nanotechnology Magazine, and the Navy Research labs, among others. There are sections on lectures and archives, as mentioned before, as well as basic nano info and a section on current research projects headed by the EPA themselves or private partnerships with the EPA. The projects being carried out include assessments on nanoparticles within the environment and also research on clean materials and chemicals.

### Who does this information appeal to?

The information that can be obtained from this website can appeal to anyone interested in the subject, but more so anyone interested in what affects the environment. There is a lot of "hard science" as well as plenty of basic content for lay people and certainly the general public. This is one of the best sites on nanotechnology as far as content that is provided and for whom it could appeal to.

## Investor Relations

- Almost all of the funding is coming from grants fed from the federal government to universities. There is a section entitled “Research Projects” which includes all of the sections through which research is conducted -
  - **Nanotechnology Applications**
    - [Remediation](#)
    - [Sensors](#)
    - [Treatment](#)
    - [Green Nanotechnology](#)
    - [Green Energy](#)
  - **Nanotechnology Implications**
    - [Industrial Ecology](#)
    - [Toxicology](#)
    - [Fate and transport](#)
    - [Exposure](#)
  - [STAR Awards by RFA](#)
  - [SBIR Nano Research](#)
  - [Ultrafine Particle Research](#)

Clicking on one of the links brings forth the institution which received the grant and who is heading the research. Also noted is when the report for the research is due and links to those reports when available. There are also private organizations that are partnered with the EPA which are researching to bring out methods of clean energy.

The information located within this site is among the best that I have seen through the research that I have done thus far. They offer a wide array of publications, general information, meetings between large science societies and government bodies, and much more information that not only has to deal with environmental effects of nanotechnology and some of the possible detriments that come with those effects, but also praise for the benefits that do and potentially could arise from nanotechnology. The White Paper is something worth reading for everyone in the class to get a good understanding about nanotechnology and the site is overall easily navigable.

## Resources

<http://es.epa.gov/ncer/nano/index.html>

<http://es.epa.gov/ncer/nano/publications/whitepaper12022005.pdf>

