

March 31, 2009

1. Upcoming conferences and seminars including nanoscience and nanotechnology:

- **55th Midwest Solid State Conference**
The University of Iowa
April 18-19, 2009
<http://nano.physics.uiowa.edu/~mwss/index.html>
- **6th Annual Conference Foundations of Nanoscience (FNANO09) Self-Assembled Architectures and Devices**
Snowbird, UT
April 20-24, 2009
<http://www.cs.duke.edu/~reif/FNANO/>
- **Clean Technology Conference & Expo 2009**
Houston, TX
May 3-7, 2009
<http://www.csievents.org/Cleantech2009/>
- **Argonne National Laboratory Users Week 2009**
Advanced Photon Source - Center for Nanoscale Materials - Electron Microscopy Center.
Argonne, IL
May 4-6, 2009
<http://www.aps.anl.gov/Users/Meeting/2009/>

2. Upcoming grant opportunities and funding requests in nanoscience and nanotechnology:

- **NanoThermal Interfaces (NTI)**
Department of Defense
Funding Opportunity Number: DARPA-BAA-08-42
Closing Date for Applications: May 21, 2009
<http://www07.grants.gov/search/search.do;jsessionid=L1wK3gQVwKFJNITCSMLfBYcGBpp5yF9812Y6GN1STOf1tnTms59v!293637734?opId=41766&flag2006=false&mode=VIEW>
- **The American Recovery and Reinvestment Act of 2009 (ARRA)** www.recovery.gov
There are many funding opportunities for scientific research available as federal funding agencies implement plans for the spending and oversight of their portions of scientific research funding included in the American Reinvestment and Recovery Act (ARRA). Please use the links below for details for these funding agencies:
 - NIH <http://grants.nih.gov/recovery/>
 - NSF <http://nsf.gov/recovery/>
 - DOE <http://www.energy.gov/recovery/>
 - NIST <http://www.nist.gov/recovery/>
 - NASA <http://www.nasa.gov/recovery/>

4. Highlights of some new interesting nanoscience and nanotechnology research and articles:

- **Twin Nanoparticle Shown Effective at Targeting, Killing Breast Cancer Cells**
A team of investigators at Brown University has developed a novel way to treat a class of breast cancer cells. The team has created twin nanoparticles that specifically targets the Her-2 tumor cell and unload a cancer-fighting drug directly into it. The result is a boost in antitumor activity while minimizing side effects. The findings of this study have been published in

the *Journal of the American Chemical Society*.

http://nano.cancer.gov/news_center/2009/march/nanotech_news_2009-03-25b.asp

- **Polymer Nanowires Detect Cancer Biomarker**

Investigators at the University of California, Riverside, have developed a simple and cost-effective method of building conducting polymer nanowires that can detect a wide range of levels of a cancer biomarker. This work, which was published in the journal *Analytical Chemistry*, could serve as a model for portable cancer detection equipment suitable for use in a doctor's office.

http://nano.cancer.gov/news_center/2009/march/nanotech_news_2009-03-25f.asp

- **Could Nanotechnology Make An Average Donut Into Health Food?**

Could nanotechnology make donuts into health food? The promise of nanotechnology is that it could allow for re-engineering of ingredients to bring healthy nutrients more efficiently to the body while allowing less-desirable components to pass through, according to a Dutch scientist.

<http://www.sciencedaily.com/releases/2009/02/090214162746.htm>

About NANO @ IOWA Weekly

NANO @ IOWA Weekly is a weekly electronic newsletter to inform faculty, staff, and students about important news and events in nanoscience & nanotechnology. This newsletter is provided as a service of The Nanoscience and Nanotechnology Institute at UI (NNI@UI).

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<http://research.uiowa.edu/nniui/>