From:	Cathy Boggs
To:	Cathy Boggs
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From: CNS - Weekly News Clips from UCSB <cns-weekly-clips@lists.isber.ucsb.edu>
Reply-To: cns-weekly-clips@lists.isber.ucsb.edu
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CNS-UCSB
Center for Nanotechnology in Society

University of California, Santa Barbara
www.cns.ucsb.edu

News Clips

July 16-31, 2011

Top Deck

What the nation's (& world's) top papers, news wires and sources have been saying about nanotechnology.

Nanotechnology Transforms Disease Detection
U.S. News & World Report (NSF)
July 19
Marlene Cimons

"Conventional diagnostic tools often cannot detect many cancers, Alzheimer's and other life-threatening diseases early enough to provide effective treatment. But nanotechnology, which is revolutionizing electronics and other fields, promises to similarly transform medicine, particularly when it comes to identifying illnesses more quickly."

Nano sunscreen warnings won't be mandatory
ABC (Australia)
July 20
Simon Lauder

"The Government is set to disappoint consumers who are worried about the use of nanotechnology in sunscreens, with documents obtained by PM showing the Government will not opt for mandatory labelling."

Also noted by the Canberra Times.

Swiss court find eco-activists guilty of planning IBM attack
AFP
July 22

"ZURICH - Switzerland's top criminal court on Friday sentenced three green activists to more than three years in jail each for a foiled bomb attack on an IBM research centre near Zurich."

Tiny Battery Embedded In a Nanowire Is the Smallest Battery Yet
Popular Science
July 29
Rebecca Boyle

"Nanotechnology promises to enable tiny, intricate circuits powering devices on any surface. But unless they're harvesting energy from something like a heartbeat, the devices can only be as small as the smallest battery."

Portable device detects anthrax in under an hour

R&D Magazine
July 29

"A portable device can detect the presence of the anthrax bacterium in about one hour from a sample containing as few as 40 microscopic spores, report Cornell and University of Albany researchers who invented it. The device could provide early detection in the case of an anthrax attack, saving many lives."

Local

Industry Leader: No 'Boogieman' Lurks
New Haven (CT) *Independent*
July 18
Gwyneth K. Shaw

"Recent moves inside the U.S. government have unsettled some in the nascent nanotechnology industry. But Scott E. Rickert, CEO of Nanofilm, Inc., an Ohio-based coatings company, writes in Industry Week that the 'nano-boogieman' isn't lurking in the shadows."

Science triumph
Press-Enterprise (Riverside, CA)
July 22
Editorial

"The far-out worlds of Ray Bradbury and Isaac Asimov were the realms of imagination not long ago. Today, people like UC Riverside professor Alex Balandin are turning what was science fiction into reality. Area residents should cheer Balandin for his trailblazing work that has earned him a prestigious award from the Nanotechnology Council."

Nano Press
What nano-centered publications are reporting

Safe Magnetic Nanoparticles for Detecting Breast Cancer Metastasis

Azonano
July 16
Cameron Chai

"MIRA researchers and their partners have received a 1.4 million [Euro] grant for developing a new method to detect development of secondary tumors in breast cancer patients. The novel method uses a sophisticated highly-sensitive 'metal detector' and safe magnetic nanoparticles."

Researchers Observe Improved Therapeutic Results on Tumors Treated With Communicating Nanoparticles

Azonano
July 19
Cameron Chai

"Researchers of the University of California at San Diego (UCSD), the Sanford-Burnham Medical Research Institute, and MIT have developed a new drug delivery system which can release a first batch of nanoparticles that selectively attaches on the tumor, and then emits a second batch of nanoparticles that gives out the cancer drug."

Nanotechnology for a Viagra patch
Nanowerk
July 26

"Sildenafil citrate, commonly known as Viagra, is currently the first choice drug for erectile dysfunction but despite its success oral delivery of the drug is hampered by numerous side effects, the long delay before it starts working and the short amount of time it lasts. Researchers in Egypt think they may have a solution via nanotechnology."

Also noted by CNET.

Nanotechnology for Dummies
Nanotechnology Now
July 31
Earl Boysen

"Recently my co-author Nancy Muir Boysen and I finished an all-new edition of an introductory guide on nanotechnology; Nanotechnology For Dummies. We have completely rewritten the book to cover nanotechnology basics plus recent advances in the field."

Other (science) issue related to nanotechnology

Nanotechnology method could aid drug development process

The Engineer (U.K.)
July 18

"US researchers have found a way to engineer sensors onto the surface of cells to monitor how they interact with each other."

Cadmium selenide quantum dots degrade in soil, releasing their toxic guts, study finds

EurekAlert

July 18

"Quantum dots made from cadmium and selenium degrade in soil, unleashing toxic cadmium and selenium ions into their surroundings, a University at Buffalo study has found."

New research might take the shine off gold nanoparticles

Fierce Drug Delivery
July 20
Howard Lovy

"University of Wisconsin-Milwaukee researchers might put the brakes on a gold rush going on in drug delivery. Gold nanoparticles have recently shown great promise in delivering anti-cancer drugs directly to their targets (see stories here and here), but the *Milwaukee Journal Sentinel* reports on the work of Reinhold Hutz and his grad student Jeremy Larson, who are looking into whether gold nanoparticles target and disrupt the female reproductive tract."

A new discovery paves the way for using super strong nanostructured metals in cars
EurekAlert
July 21

"Today, the body of an ordinary family car consists of 193 different types of steel. The steel for each part of the car has been carefully selected and optimised. It is important, for example, that all parts are as light as possible because of the fuel consumption, whereas other parts of the car have to be super strong in order to protect passengers in a collision."

From nano to giga? Nanotechnology risks for manufacturers and insurers
International Law Office.com
July 28

"Over 1,000 consumer nanotechnology products are already available on the global market. The most conservative forecasts predict that the total global revenue from nanotechnologies - around $2 billion in 2007 - will grow to $81 billion in 2015. The United States has the largest number of operating nanotechnology companies, followed by Germany and the United Kingdom."