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

**CNS-UCSB**
**University of California, Santa Barbara**
**www.cns.ucsb.edu**

# News Clips

June 1-15, 2011

**Top Deck**

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

Scientists declare knowledge gap in nanoagriculture
*CNET*
June 1
Elizabeth Armsrong Moore

"At just 1/50,000 the width of an average human hair, nanoparticles are widely used in cosmetics, medicines, and more.

But their emerging use in agriculture has raised questions about health and environmental effects, and a new report by a team of chemists at the University of Texas at El Paso concludes that those questions don't yet have answers."

Breaking through the barrier
RSC
June 1

"Getting drug molecules into the brain means crossing the defensive blood-brain barrier. Anthony King investigates how chemists are infiltrating the brain's fortress."

In the Future, Your Clothes Will Clean the Air, Generate Power and Save Your Life
*Popular Science*
June 2
Rebecca Boyle

"Hey, reader, what are you wearing?

Did rumpled jeans fit your fancy this morning? Or perhaps a nice cotton-poly blend shirt with a paisley print?"

Federal agencies to study guidelines on nanomaterials
*The Washington Post*
Darryl Fears
June 9

"Federal regulators announced Thursday two actions that will aim to clarify the role that extremely small materials can play in items such as cosmetics and food production and packaging."

*Draft FDA guidance document* here. *Also noted by* AZoNano, Cosmetics Design, Nanowerk, Industry Week, Sacramento Bee, National Journal, among many others.

Nanoparticles may help inhibit Alzheimer's disease and other neurodegenerative disorders
*R&D Magazine*
June 13

"Nanoparticles of the right dimensions and shape may be the key in combating the plaque that destroys neurons and leads to symptoms associated with Alzheimer's disease, a new report shows."

## Local

Downtown Phoenix parking lot paved in reflective coating
*The Arizona Republic*
June 7
Emily Gersema

"The parking lot on the old Ramada Inn site in downtown Phoenix looks as if it was hit by a green paint bomb or perhaps was the target of an overzealous, pastel-loving painter."

Nano & The Food Chain: Another Puzzle
*New Haven* (CT) *Independent*
June 7
Gwyneth K. Shaw

"How are super-small engineered particles impacting plants and the food chain for humans and animals?"

Washington Week
*Bend* (OR) *Bulletin*
June 13

"...The Senate also discussed the Economic Development Revitalization Act, which would increase funding for the Economic Development Administration. Wyden spoke on the Senate floor Thursday, saying that EDA could help the nanotechnology industry create high-paying jobs in America."

FDA Moves On Sunscreen, Still Scrutinizing Tiny Ingredients
*New Haven* (CT) *Independent*
June 15
Gwyneth K. Shaw

"The U.S. Food & Drug Administration has issued a slew of new rules and guidelines for sunscreens--but none of them involve super-small ingredients that are increasingly common."

**Nano Press**

What nano-centered publications are reporting

Safety of nanoparticles in food crops is still unclear
Nanowerk
June 1

"With the curtain about to rise on a much-anticipated new era of 'nanoagriculture' -- using nanotechnology to boost the productivity of plants for food, fuel, and other uses -- scientists are reporting a huge gap in knowledge about the effects of nanoparticles on corn, tomatoes, rice and other food crops. Their article appears in ACS' *Journal of Agricultural and Food Chemistry*."

An alternative to antibiotics
Nanowerk
June 2

"Antibiotics are among the greatest achievements of medical science. But lately the former multi-purpose weapon fails in the battle against infectious diseases. Bacteria are increasingly developing resistance to antibiotics. Researchers have now found a therapeutic equivalent which could replace penicillin and related phamaceuticals."

Nanotechnology is key to recovering usable fingerprints from old evidence
Nanowerk
June 6

"Despite fingerprinting being essentially the foundation technique of modern forensic science, only a fraction of all the fingermarks at a crime scene are actually detected."

*Also noted by* UPI.

**Other (science) issue related to nanotechnology**

Similarities further established between asbestos and nanotechnology materials
Mesothelioma.org
June 1

"A recent study conducted in conjunction with the Division of Endocrinology at the Brown Medical School Department of Medicine in Providence, Rhode Island has found that the most common causes of granulomatous inflammation are persistent pathogens and poorly-degradable irritating materials, such as nanoparticles and asbestos. A characteristic pathological reaction to inhalation of toxic fibers is the formation of epithelioid granulomas in conjunction with interstitial fibrosis in the lungs."

New inorganic semiconductor layers hold promise for solar energy
PhysOrg
June 2
Louise Lerner

"A team of researchers from the University of Chicago and the U.S. Department of Energy's (DOE) Argonne National Laboratory has demonstrated a method that could produce cheaper semiconductor layers for solar cells."

Ray Kurzweil on Ending Disease
BigThink/YouTube
June 2

"According to the Law of Accelerating Return, nanotechnology will be a million times more powerful in 20 years than it is today. Futurist Ray Kurzweil discusses how robotic red blood cells will aid in ending disease as we know it."

Smart dust to revolutionise avionics
Flightglobal
June 3
Dan Thisdell

"Nanotechnology is set to drive a revolution in 'intelligent avionics' that will help cut aircraft fuel burn and improve safety."

Early Results of Development Program in Nano-Formulated NSAIDs Show Potential for Faster Pain Relief at Lower Doses
*Business Wire*
June 3

"A novel, lower-dose formulation of indomethacin, a widely used pain reliever, is absorbed faster by the body than a standard formulation and maintains comparable maximum concentrations in the blood despite being administered at a lower dose, according to a study to be reported here tomorrow at the annual meeting of the American Headache Society (AHS)."

General, We Shrunk the Kits
Signalscape
June 3
Beverly T. Schaeffer

"That's the idea, anyway, and it encompasses all manpack equipment across the board. A dismounted soldier now carries approximately 140 pounds of equipment or more, and that's still not enough to handle the tasks at hand or to protect him in combat."

McGill University professor predicts construction applications for nanotechnology
*Daily Commercial News and Construction Record*
June 7
Greg Meckbach

"Nanotechnologies, which are currently used in medicine, telecommunications and

computing, have the potential to improve construction materials by changing their properties, according to a physicist who spoke at the recent Construction Specifications Canada conference in Montreal."

EPA proposes policy on Nanoscale materials in pesticide products
Environmental Expert
June 10

"The U.S. Environmental Protection Agency (EPA) released on June 9, 2011, a pre-publication copy of a forthcoming Federal Register notice describing several possible approaches for obtaining certain additional information on the composition of pesticide products."

Also noted by the *Albany* (NY) Times-Union.