From:	Cathy Boggs
To:	Cathy Boggs
Subject:	Fwd: [CNS-weekly-clips] CNS-UCSB News Clips, July 1-15, 2011
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Subject: [CNS-weekly-clips] CNS-UCSB News Clips, July 1-15, 2011
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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
To: cns-weekly-clips <cns-weekly-clips@lists.isber.ucsb.edu>

CNS-UCSB
Center for Nanotechnology in Society

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

News Clips

July 1-15, 2011

Top Deck

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

Magnetic Nanoparticles Fry Tumors
Science
July 1
Tim Wogan

"Any parent fretting over a child's fever knows that temperatures just a few degrees above normal can kill. But cancer researchers have now found a way to make high temperatures heal. In a new study, a team found that injecting mice with tiny magnets and cranking up the heat eliminated tumors from the animals' bodies with no apparent side effects."

UEA scientists harness sun's power to make clean fuels
BBC
July 5

"Scientists from the University of East Anglia (UEA) in Norwich are working on harnessing the energy of the sun to make clean fuels."

Whatever happened to nanotechnology in the UK?
New Scientist (U.K.)
July 8

Roger Highfield

"I have to admit that I have always been a little underwhelmed by the way that a key technology - along with a lot of chemistry - has been branded by a length scale of a billionth of a metre."

Patient Saved By Synthetic Windpipe Transplant in Medical First
Fox News
July 8

"STOCKHOLM - A man will be discharged from a Stockholm hospital Friday following an operation in which an entirely synthetic windpipe was transplanted for the first time, in an important advance for regenerative medicine."

Also noted by Technology Review.

U.S. may lose nanotechnology lead, Congress warned
Marketwatch.com (*Wall Street Journal*)
July 14
Hannah Vickers

"While America has been at the forefront of nanotechnology for more than a decade, other countries are rapidly catching up and the U.S economy could suffer if America's front-runner status is not preserved, a top nanotechnology expert told Congress on Thursday."

Local

"Principles" issued
New Haven (CT) *Independent*
July 1
Gwyneth K. Shaw

"After a long stretch of silence, the White House and two federal agencies recently offered a glimpse-albeit a small one-of where federal policy involving the growing field of nanotechnology might go."

What's In A (Nano) Name?
New Haven (CT) *Independent*
July 7
Gwyneth K. Shaw

"Regulators around the world are struggling to define what a 'nanomaterial' is, largely so they can get to work on regulating the super-small substances that are the backbone of the growing field of nanotechnology."

3M introduces new window film for homes
Minneapolis *Star-Tribune*
July 11

"Product mitigates the effect of sunlight on furniture, carpet."

They're Mum On Nano Food
New Haven (CT) *Independent*
Gwyneth K. Shaw
July 11

"As products featuring new, super-small particles keep coming to market, one of the more interesting markets is the food sector. There's lots of potential for the newfangled materials, especially in packaging."

Near future holds revolution in cancer detection, care
Palm Beach Post
July 11

"Dr. Susan Love coined the phrase 'cut, poison and burn' to describe the available breast cancer treatment options of surgery, chemotherapy and radiation therapy. Her words were inflammatory to say the least. For patients with no other choice than to undergo standard treatment protocols, her comments served only to instill fear and horror."

Looking At Energy Future with Nanotechnology (includes video)

MyFox - Houston
July 14
Ned Hibberd

"A scientific breakthrough at Rice University could boost our electricity supply without the construction of any additional power plants."

Rice University provost tells Congress that federal funding for research is critical
Houston Chronicle
July 14

"A top administrator at Rice University advised members of Congress today of the growing importance of nanotechnology research in the United States, urging the senators to supply funding for a national initiative to help bolster the field."

Nano Press
What nano-centered publications are reporting

Novel Nanotechnology-Based Vaccination against Hepatitis C
Azonano
July 5
Cameron Chai

"The European joint project, HCVAX, aims to develop an innovative nanotechnology-based vaccination against hepatitis C. The transnational consortium has researchers from France, Switzerland and Germany."

New study reveals molecular mechanism of carbon nanotubes' role in arterial thrombosis
Nanowerk
July 7

"Blood platelets are the structural and chemical foundation of blood clotting (hemostasis) and they play a vital role in minor injuries when coagulation prevents the loss of blood at the injury site. If the proper function of these platelets gets disturbed, blood clotting can lead to thrombosis - clots in the blood that obstruct the flow of blood through the circulatory system - which is a leading cause of death and disability in the developed world."

An Underwriter's Laboratory for Nanotechnology
Nanotechnology Now
July 12
Allan Shalleck

"We should create our own 'official and recognized' standards and certification laboratory that will stamp nanotech products safe with a 'NUL' (Nanotechnology Underwriters Laboratory) stamp so that the world can be comforted the product being bought has successfully met the highest tests for safety and sustainability at an internationally accepted independent testing body created and backed by the entire nanotechnology industry - worldwide."

Polymeric nanoparticles attack head and neck cancer
Nanowerk
July 15

"Head and neck cancer, the sixth most common cancer in the world, has remained one of the more difficult malignancies to treat, and even when treatment is successful, patients suffer severely from the available therapies. Now, researchers at the University of Michigan have developed a tumor-targeted nanoparticle that delivers high doses of anticancer agents directly to head and neck tumors. Tests in animals have shown that this novel formulation increases survival while triggering fewer side effects."

Other (science) issue related to nanotechnology

Magnets fry tumors and prevent heart attacks, strokes
Smart Planet
July 1
Janet Fang

"Age-old and endlessly fascinating, they're not just for keeping postcards on fridges or sticking behind save-the-dates or sending coins through villainous mutant skulls."

Nano detector for deadly anthrax
EurekAlert
July 6

"An automatic and portable detector that takes just fifteen minutes to analyze a sample suspected of contamination with anthrax is being developed by US researchers. The technology amplifies any anthrax DNA present in the sample and can reveal the presence of just 40 microscopic cells of the deadly bacteria Bacillus anthracis."

With a simple coating, nanowires show a dramatic increase in efficiency and sensitivity
EurekAlert
July 6

"By applying a coating to individual silicon nanowires, researchers at Harvard and Berkeley have significantly improved the materials' efficiency and sensitivity."

FDA finally attacks false claims on sunscreens, but ignores nano hazard claims

Cold Truth
July 6
Andrew Schneider

"They slather themselves with gels, creams, sprays and lotions, then rush to the nearest water. Most of these sun worshipers think the expensive, heavily advertised goop covering their skin will protect them from the perils of the sun."

Graphene: What can go wrong? New studies point to wrinkles, process contaminants
EurekAlert
July 7

"Using a combination of sophisticated computer modeling and advanced materials analysis techniques at synchrotron laboratories, a research team led by the University at Buffalo (UB) and including the National Institute of Standards and Technology (NIST), the Molecular Foundry at Lawrence Berkeley National Laboratory and SEMATECH has demonstrated how some relatively simple processing flaws can seriously degrade the otherwise near-magical electronic properties of graphene."

Six Ways I Know Nanotechnology is Here to Stay
Industry Week
July 8
Scott E. Rickert

"The recent new focus on safety and environment isn't a death knell, just growing pains."

Nanoparticles working in harmony
PhysOrg
July 15

"For decades, researchers have been working to develop nanoparticles that deliver cancer drugs directly to tumors, minimizing the toxic side effects of chemotherapy. However, even with the best of these nanoparticles, only about one percent of the drug typically reaches its intended target. Now, a team of researchers from MIT, the Sanford-Burnham Medical Research Institute, and the University of California at San Diego (UCSD) has designed a new type of delivery system in which a first wave of nanoparticles hones in on the tumor, then calls in a much larger second wave that dispenses the cancer drug. This communication between nanoparticles, enabled by the body's own biochemistry, boosted drug delivery to tumors by more than 40-fold in a mouse study."