From:	Cathy Boggs
To:	Cathy Boggs
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Subject: [CNS-weekly-clips] CNS-UCSB News Clips, August 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
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CNS-UCSB
Center for Nanotechnology in Society

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

News Clips

August 1-15, 2011

Top Deck

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

China Aims To Renew Status As Scientific Superpower
National Public Radio
August 1
Louisa Lim

"China was probably the world's earliest technological superpower, inventing the plow, the compass, gunpowder and block printing. Then, science in the Middle Kingdom languished for centuries."

Bill from Rep. Honda seeks to boost nanotechnology
The Hill (Washington, D.C.)
August 1
Gautham Nagesh

"Rep. Mike Honda (D-Calif.) will introduce a bill Monday that attempts to boost the federal government's efforts to foster and commercialize research in nanotechnology."

Ayurveda meets nanotechnology in potential cancer drug
Wall Street Journal/LiveMint.com
August 2

Jacob P. Koshy

"Through an unusual welding of Ayurveda and nanotechnology, two India-born scientists have developed a medicine that promises to cure prostate cancer, which will now be tested by a local company."

Cornell researchers explore fabric technology

Wall Street Journal (Associated Press)
August 3

"Fabrics that block toxic gasses to protect emergency responders, T-shirts that change color and kill bacteria and dresses that can recharge iPods are some of the latest projects scientists at Cornell University are working on."

Also noted by Forbes, BusinessWeek, New Scientist, among others.

Anti-tech group claims Mexico bombs

Associated Press
Mark Stevenson
August 10

"MEXICO CITY - A radical group that opposes nanotechnology has has claimed responsibility for at least two bombing attacks on researchers in Mexico and it praises the 'Unabomber,' whose mail-bombs killed three people and injured 23 in the United States."

Also noted by Fox News, Americas Quarterly, Business Week, among many others.

Nanotech Terrorists Apparently Don't Know What Nanotechnology Is
IEEE Spectrum Nanoclast
August 11
Dexter Johnson

"The confusion - which now seems insurmountable - over the advanced material science that accounts for the nanotechnology being used in products today and the molecular mechanosynthesis of the famed 'nanobot' variety has now resulted in violence."

Minn. nonprofit: States in upper Midwest must cooperate to land nanotech jobs [includes audio]
Minnesota Public Radio
August 12
Dan Gunderson

"Moorhead, Minn. - A Minnesota organization is behind a move to create a regional initiative that could bring nanotechnology research dollars and jobs to the upper Midwest."

Local

From Smart Materials to Nanotechnology [includes program audio]
KERA
August 4

"How will nanotechnology change our lives in the future and what exciting advances are happening in

the field of materials development today?"

How to make $15 billion from a box of Girl Scout cookies

Houston Chronicle
August 4
Eric Berger

"In the world of nanotechnology, graphene is the new wunderkind. Last year they gave a Nobel Prize for groundbreaking work with the material."

Could nano-technology be the key to jumpstarting economy?
KTVK-Channel 3 News (Phoenix)
August 12
Jared Dillingham

"Stimulus spending, tax cuts, tax hikes and less regulation are all ideas on what America needs to create jobs, but as Jared Dillingham reports, maybe what we need is really, really small."

Nanotechnology improves chilling of fish
Anchorage Daily News
August 13
Laine Welch

"Keeping fish cold is the key to quality, and new technologies such as nanotechnology is taking chilling to whole new levels. Nanotechnology is the study of manipulating matter on an atomic and molecular scale. And the science can easily be applied to making better ice."

After Cellphones Get Trashed ...

New Haven (CT) *Independent*
August 15
Gwyneth K. Shaw

"BOSTON - So there are carbon nanotubes in your cellphone. Not a big deal for you, since the super-small, ultralight cylinders are safely ensconced inside. But what happens to them when you toss away that old handset?"

Nano Press

What nano-centered publications are reporting

Should Investors Roll the Dice with Nanotechnology?
Nanotechnology Now
August 8

"Great rewards typically only come with great risks, and investing in Nanotechnology is a definite and substantial risk. But with all investment opportunities, potential backers of Nano-products need to determine whether the gamble is worth the initial risk, or if their money would be better spent on safer, older products. The answer to that is not very simple, and all investments should be considered carefully, but there are signs that it may not be such a bad idea to place a bet on Nanotech's future."

Nanotechnology Researchers Turn Embryonic Stem Cells into Heart cells

Azonano
August 14

"The push towards growing organs for transplantation has received a boost from the latest discovery by the Institute of Bioengineering and Nanotechnology (IBN), the world's first bioengineering and nanotechnology research institute. Researchers from IBN have shown that human embryonic stem cells (hESCs) can be transformed into heart cells using a 'decellularized' heart as a scaffold."

Other (science) issues related to nanotechnology

Dream screens from graphene
EurekAlert
August 1

"Flexible, transparent electronics are closer to reality with the creation of graphene-based electrodes at Rice University."

Engineered Nanoparticles Proven to Have Influence on Heart Rate and Rhythm
MedGadget
August 2
Stanley Darma

"Investigators from the Technische Universität München and the Helmholtz Zentrum München have shown for the first time that certain engineered nanoparticles (ENPs) have a direct effect on the heart rate and rhythm. ENPs are more and more used and produced for industrial products, food, cosmetics and drugs. However, their precise effect on our health is largely unknown. To investigate the cardiovascular effects of several nanoparticles, the research team headed by Andreas Stampfl and Reinhard Niessner used an enhanced Langendorff Heart setting (isolated beating heart, see above)."

Novel coatings show great promise as flame retardants in polyurethane foam

EurekAlert
August 3

Gram for gram, novel carbon nanofiber-filled coatings devised by researchers from the National Institute of Standards and Technology (NIST) and Texas A&M University outperformed conventional flame retardants used in the polyurethane foam of upholstered furniture and mattresses by at least 160 percent and perhaps by as much as 1,130 percent.

UGA Researchers Turn to Nanotechnology to Speed Flu Diagnosis
Med Gadget
August 4

It seems gold nanoparticles have enabled a number of medical breakthroughs recently. Last month, we covered research that relied on gold nanoparticles in conjunction with lasers to restore sight in the blind. Earlier in the year, we ran stories on the use of the nanomaterial as a drug carrier for cancer treatment and for cancer detection.

Artificial Lung Is Microfluidics Marvel

Design News
August 4

Doug Smock

In an important technical breakthrough, researchers at Case Western Reserve University have created a prototype artificial lung that functions with air -- just like human lungs.

Like superman's X-Ray vision, new microscope reveals nanoscale details
PhysOrg
August 8

Physicists at UC San Diego have developed a new kind of X-ray microscope that can penetrate deep within materials like Superman's fabled X-ray vision and see minute details at the scale of a single nanometer, or one billionth of a meter.

Also noted by MSNBC.

A new line of defense against sexual assault
EurekAlert
August 9

Tel Aviv University researchers develop pocket-sized sensor to detect 'date rape' drugs

A Healthy Dose of Nanomiracles

IndustryWeek
August 10
Scott E. Rickert

"'Take two nano-pills and call me in the morning.' Sound strange? Maybe we'd better get used to it. Chances are, advances in nanomedicine are going to force us to rewrite that familiar punch line since it's rewriting the medical books, too."

New Research Aims To Identify Nanosilver's Toxic Trigger

eNews Park Forest
August 12

"Washington, DC - (ENEWSPF) - August 12, 2011. Researchers have begun investigating silver nanoparticles, or nanosilver, in order to discover what exactly makes the particles toxic to the environment. Although scientists have long been concerned about the evidence of toxicity of nanosilver to both human health and the natural environment, research so far has been unclear on which properties of the particles actually make them toxic. The dangers may stem from the nanoparticles themselves, but they may also be due to the silver ions that the particles shed."

Past 'techno disasters' matter, think tank warns nanotech supporters

Food Manufacture
August 15
Ben Bouckley

"Industry must learn crucial communication lessions from past 'techno disasters' such as GM and asbestos to ensure greater consumer acceptance of new technologies such as nanotechnology, according to scientific think tank Matter."