

# RADICAL TECHNOLOGIES

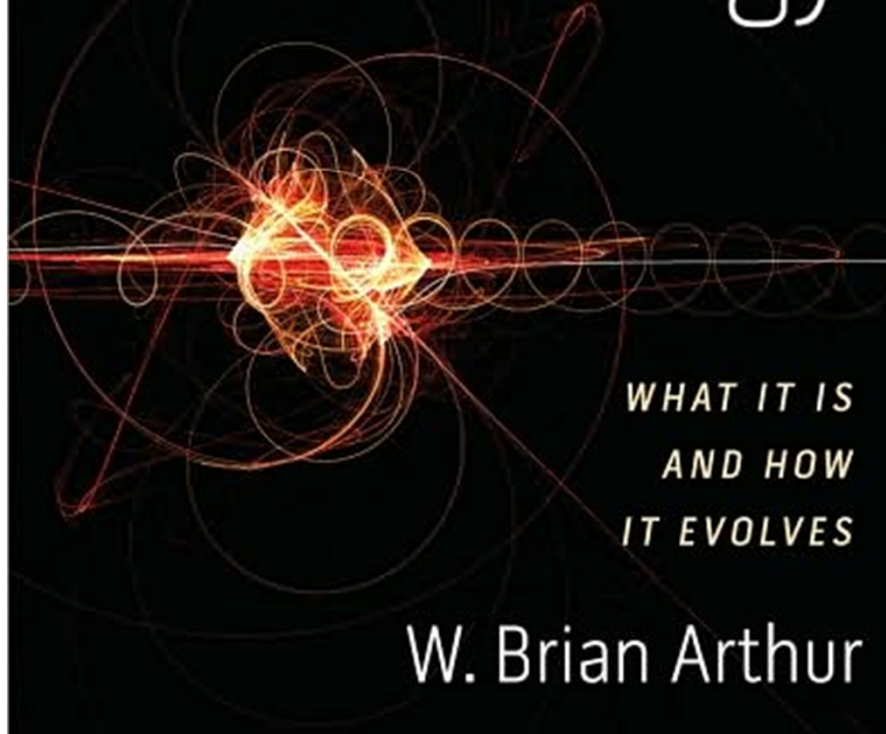
Alfons Cornella  
**Infonomia**



# Interfaces

# VIDEOS

# The Nature of Technology



*WHAT IT IS  
AND HOW  
IT EVOLVES*

W. Brian Arthur

# Minería de fenómenos naturales



*A new blue pigment, created as a powder (right), can help keep houses cool in warm weather.*

**Coat d’Azure** Oregon State University researchers were thrilled in 2009 to discover the formula for a new blue pigment, the first new inorganic blue created in more than two centuries. It was a bonus when they realized the compound was also unusually good at reflecting heat, making it an ideal color to paint energy-efficient roofs and cars of the future. Made at 2350°F, the pigment is extremely stable. Its recipe—a mix of yttrium, manganese, and indium

oxides—isn’t too complicated either. Unlike dyes, which are made easily using organic compounds, it won’t fade over time.

Building companies and car manufacturers are clamoring for various shades of the new pigment, eyeing lower energy costs. White still reigns as the most efficient reflector of solar radiation but is hard to maintain. Plus, says Mas Subramanian, a materials chemist behind the discovery, “blue just looks so much nicer.” —Daniel Stone



Talvivaara Mining Company Plc - internationally significant base metals producer with its primary focus on nickel and zinc

### About Us

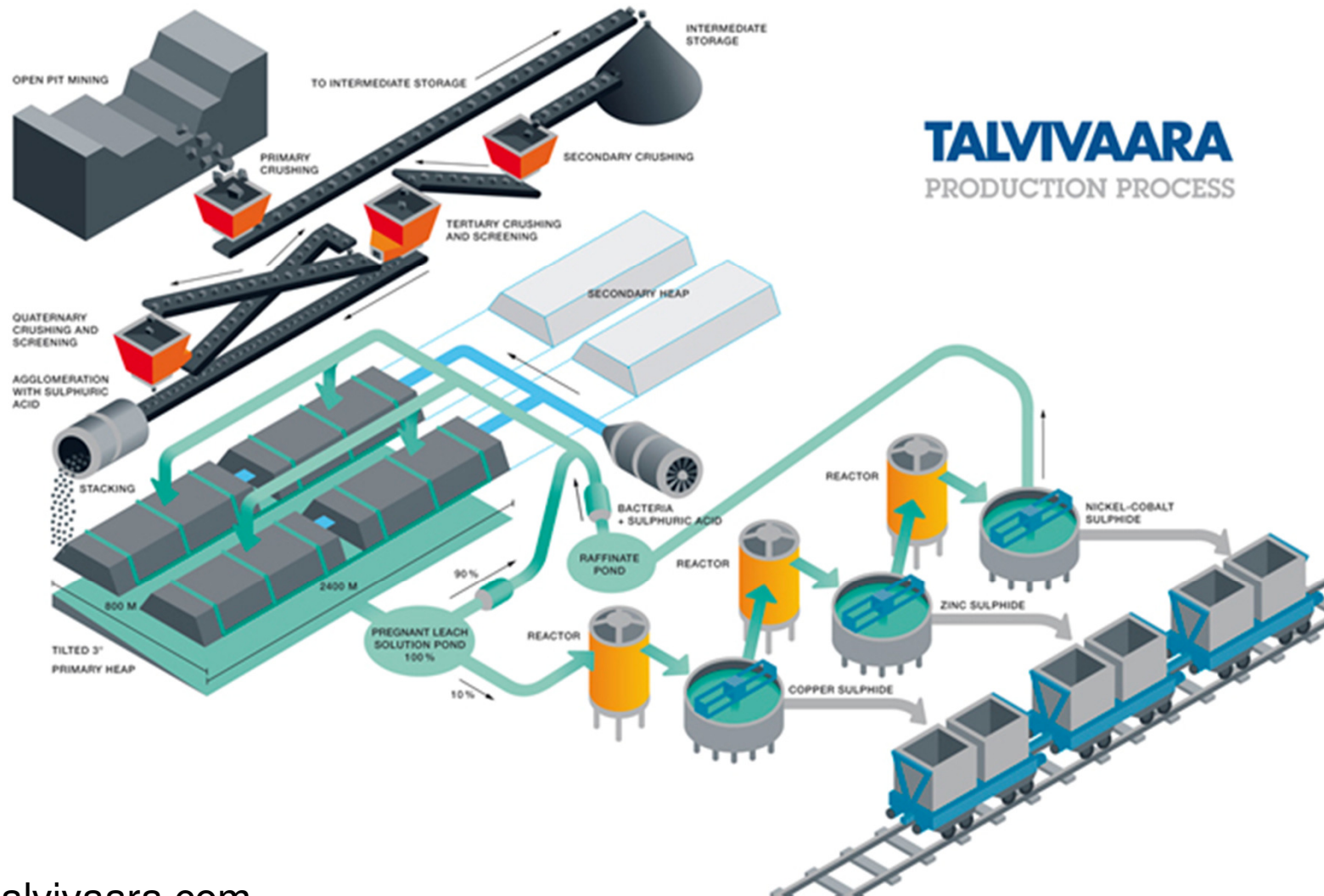
Talvivaara is an internationally significant base metals producer with its primary focus on nickel and zinc.

[Read more](#)

### Bioheapleaching

Bioheapleaching is a process whereby metals are leached from ore using a bacterial action

[Read more](#)





## REBgold's Gold Technology

Put simply, some metals are easy to separate from rock and some aren't. REBgold uses naturally occurring bacteria, harmless to both humans and the environment, to help separate metal from the tougher rock. Our technology provides a suitable environment for the bacteria within their tanks, creating a 'Garden of Eden' for

Refined gold produced at the Biogold plant  
China





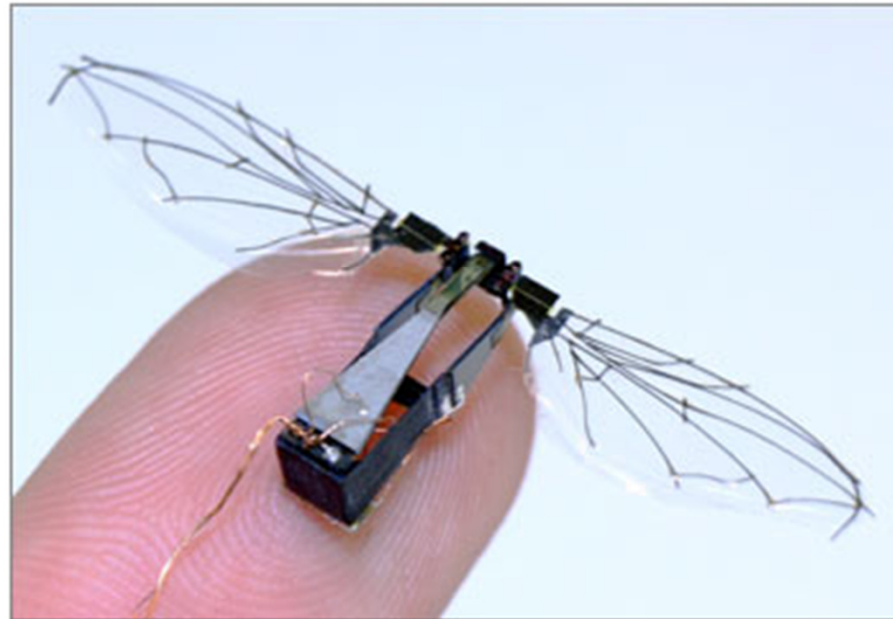
Researchers are developing adhesives that draw inspiration from the nanofibres in the hairs on a gecko's foot that allow the lizards to cling upside down on inclined surfaces. Photograph: Stephan Hoerold/Getty Images/Vetta

## Bioinspired Robotics

From insects in your backyard, to creatures in the sea, to what you see in the mirror, this team draws inspiration from Nature to design a whole new class of smart robotic devices.

Many of the most advanced robots in use today are still far less sophisticated than ants that "self-organize" to build an ant hill, or termites that work together to build impressive, massive

mounds in Africa. That is why Wyss scientists are taking their cues from the insect world to design and fabricate a new, "smarter" class of robotic devices that move and adapt like living creatures and harness the power of self assembly. They are working toward the day when an army of robo-bees, for example, will be able to pollinate crops just as well as "real" bees do.



This robot fly, capable of lift-off, was created using layered micromachined composite structures. With a tiny carbon fiber body and wings made of thin plastic sheets, the fly was inspired by the way real insects move. [See video...](#)

Miniature flying robots

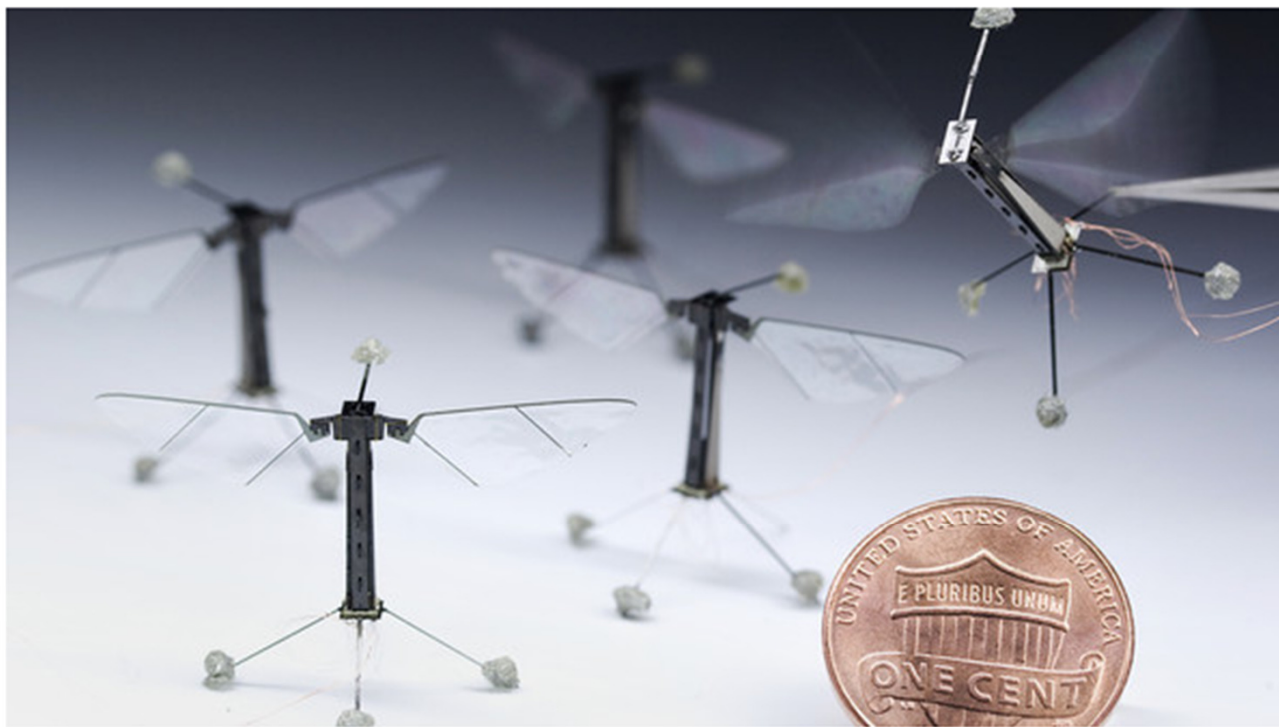
# Robodiptera

An insect-like robot, no bigger than a fly, takes to the air

May 4th 2013 | From the print edition

Like 609

Tweet 65



SOME people are convinced they are already out there: swarms of tiny flying drones discreetly surveying the world on behalf of their shadowy masters. In 2007 anti-war protesters in America claimed they were being watched by small hovering craft that looked like dragonflies. Officials maintained they really were dragonflies. Whatever the truth, robotic flies actually are now getting airborne.

VIDEO

# Programación de fenómenos naturales



badennova.com - badenes con líquidos no-newtonianos



# AMAZON MYCORENEWAL PROJECT

VOLUNTEER/DONATE

Who We Are | What We Do | Who We've Helped | Using Mushrooms to Clean Oil Spills



PHOTO GALLERY CONTACT NON-PROFIT INFO TAKE A MYCORENEWAL COURSE!



The Amazon Mycorenewal Project has been field testing the use of mushrooms to clean up oil spills for three years! By working with indigenous cultures in their own communities, we achieve concrete successes cleaning the land and healing the people.

Read about our current projects in Ecuador, educate yourself about how mycoremediation works, and consider **volunteering or donating** and join the movement of citizens demanding a cleaner Earth!



INNOCULATION → MUSHROOM LIFE CYCLE → MUSHROOMS CONSUME TOXIC WASTE





Aequorea Victoria



## BART

BART (Bioluminescent Assay in Real-Time) is a novel reporter system, exclusive to Lumora, which is designed to be used with isothermal nucleic acid amplification technologies - primarily as a tool in molecular diagnostics.

The simplicity of BART enables easy-to-use, affordable, robust hardware to be used. This is a major break-through as molecular diagnostics is typically associated with complex and expensive hardware.

BART causes the sample itself to emit light when a test result is positive, making the technology extraordinarily simple to implement. What's more, as the BART assay emits plenty of light, there is also no need for highly sensitive light detection apparatus :- the result is the simplest, most robust hardware solution for real-time diagnostics ever developed.

[Click here to download a short summary paper explaining the BART technology.](#)

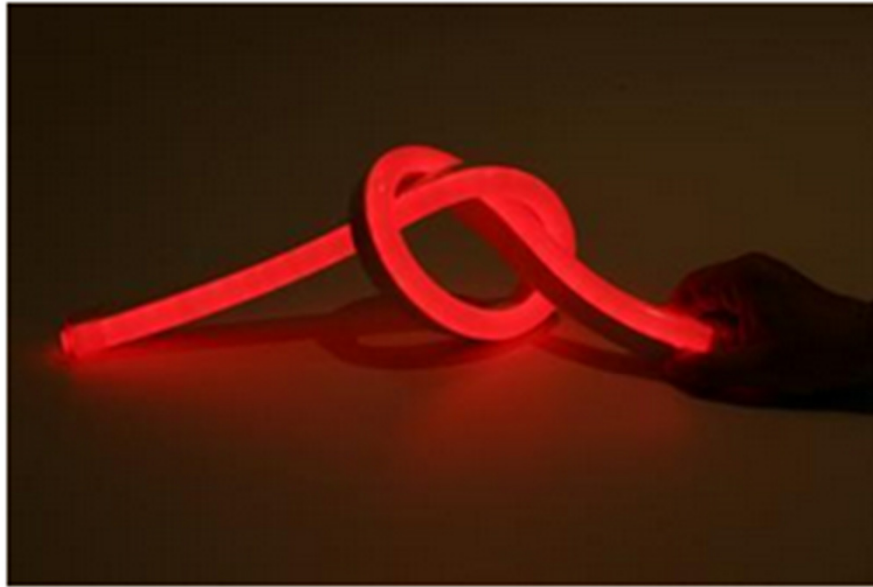
[Click here to download the paper "Novel Bioluminescent Quantitative Detection of Nucleic Acid Amplification in Real-Time" recently published online in the Public Library of Science \(PLOS\).](#)

- > [BART](#)
- > [Current Platforms](#)
- > [Future Platforms](#)
- > [Intellectual Property](#)



# Materials

## Product of the Week

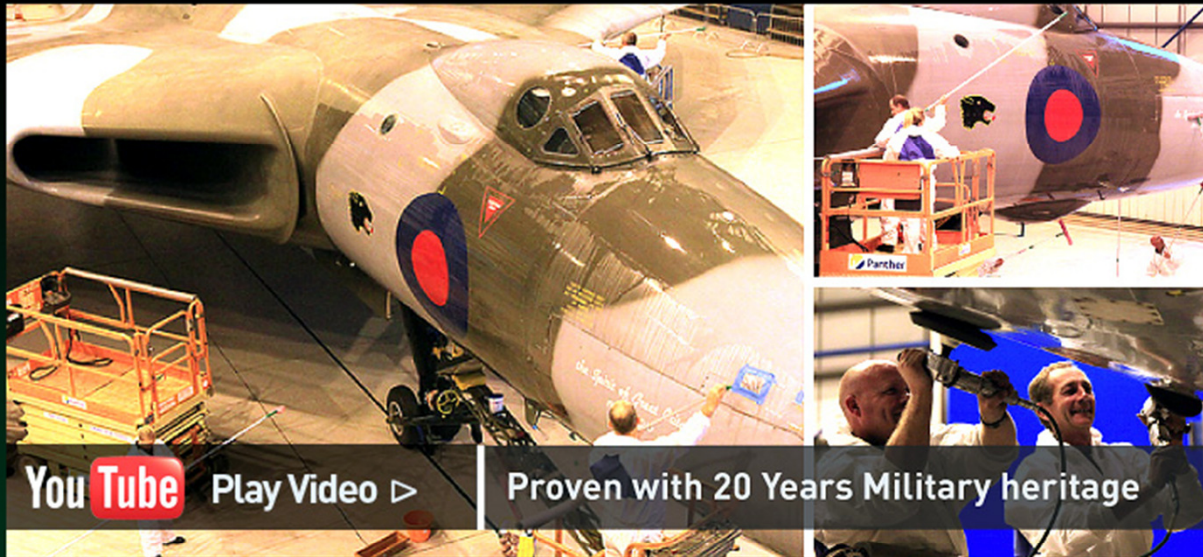


### [Flexible Molded LEDs](#)

This is a solid, silicone, plastic tube with a string of LEDs embedded inside. It is designed to glow evenly, like a neon light, yet it is flexible, durable, and consumes 70% less power.

You can now order samples of this product through Inventables. The sample is a 2.5 ft red tube section with a power cord attachment.

[Click to View](#)



[Play Video](#)

Proven with 20 Years Military heritage

- > **TECHNICAL** benefits  
Proven protection without compromise
- > **FINANCIAL** benefits  
Boost productivity and profitability
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Enhance your brand and green credentials
- > **MD / CEO** benefits  
Higher ROI, enhanced reputation and reduced cost of ownership

**BBC BREAKING NEWS**  
tripleO helps Easyjet reduce fuel bills  
[Watch video](#)

Aviation - A positive impact

Marine - As tough as the

Road Transport - Less time

Renewable Energy - Reduce drag

# DELIVERING PROVEN CRIME REDUCTION STRATEGIES

- HOME
- BUSINESS
- PERSONAL
- COMMUNITIES
- INTERNATIONAL
- SHOP
- CONTACT US
- POLICE

### WHY CHOOSE SMARTWATER?

- INSURANCE DISCOUNTS
- PROVEN TO DETER CRIMINALS
- OVER A MILLION UK SUBSCRIBERS
- NATIONAL INFRASTRUCTURE
- ROYAL AWARD WINNING TECHNOLOGY

### CRIME PREVENTION NETWORK

- USED IN THOUSANDS OF POLICE CRIME REDUCTION SCHEMES
- REGIONAL POLICE & CLIENT SUPPORT
- HIGH PROFILE MEDIA AWARENESS
- 100% CONVICTION RATE
- OVER 600 UK CONVICTIONS

### RISK MANAGEMENT STRATEGIES

- METAL THEFT
- ATM / BANK / CASH IN TRANSIT ROBBERIES
- CARGO / FREIGHT THEFT
- FLY-TIPPING / ENVIRONMENTAL
- RETAIL CRIME
- CHURCHES AND HERITAGE BUILDINGS

#### MacIntyre Breaks Cover to Back SmartWater

Crime-busting investigative journalist, Donal MacIntyre, is to front a series of TV adverts for SmartWater Technology Ltd, having witnessed firsthand the influence that SmartWater has on criminal behaviour.

#### Dagenham Cable Theft Gang Smashed by New BT Initiative

A gang of thieves who stole BT communications cable that was marked with SmartWater have been sentenced at Snaresbrook Crown Court.

#### SmartWater Secures School Burglars' Convictions

The high-tech crime fighting powers of SmartWater have been praised by Suffolk Police following the successful conviction of a pair of school burglars.



## Forensic Property Coding

### Home Coding



#### 1 - 4 Bedroom

Cost: £59.88 Annual Subscription  
(Equivalent to £4.99 PCM\*)

#### In the pack:

- 1x Home Coding Solution
- 4x Window Deterrent Labels
- 30x Property Stickers
- 2x Metal Gate Post Deterrent Signs
- 1x Application Guidelines

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#### 5+ Bedroom

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(Equivalent to £6.99 PCM\*)

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- 60x Property Stickers
- 2x Metal Gate Post Deterrent Signs
- 2x A5 Corex Signs
- 1x UV Lamp (inc. batteries)
- 1x Application Guidelines
- 2x Outdoor Labels

[Buy now](#)

# Self-Healing Concrete Uses Sunlight to Fix Its Own Cracks

Researchers have demonstrated a way to give concrete surfaces the ability to heal when small cracks appear, an advance that could allow bridges and other structures to last longer.

By Mike Orcutt on March 6, 2013



Even the tiniest cracks on the surfaces of concrete structures can lead to big problems if they aren't immediately repaired. Now researchers have demonstrated a sunlight-induced, self-healing protective coating designed to fix cracks on the surface of concrete structures before they grow into larger ones that compromise structural integrity.

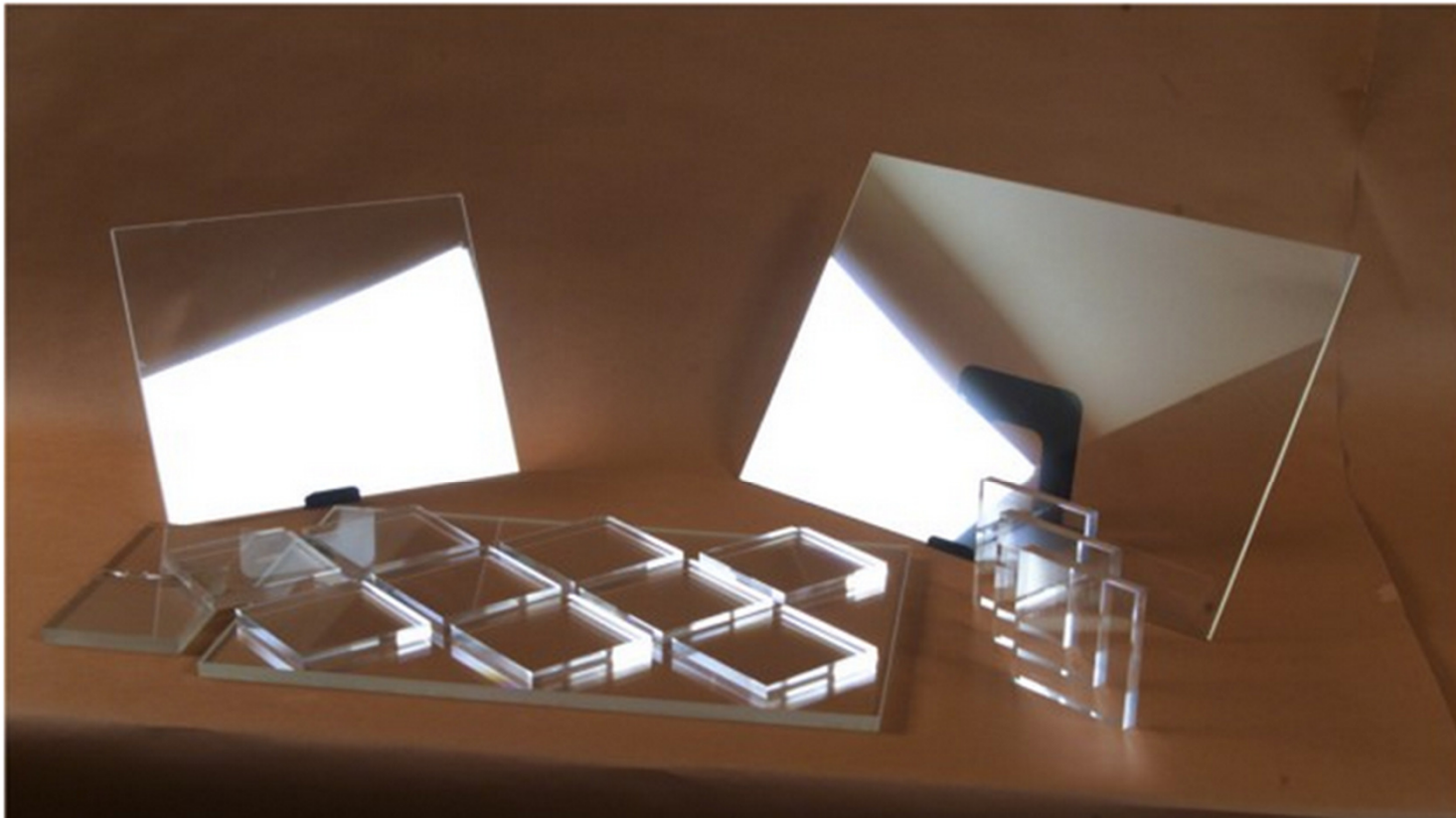
More resilient concrete structures like bridges and overpasses could save governments billions of dollars in annual expenses on repairs and maintenance. In recent years, a growing field of research has focused on developing self-healing mechanisms for a range of materials, concrete included. Several approaches to self-healing concrete have emerged, including attempts to

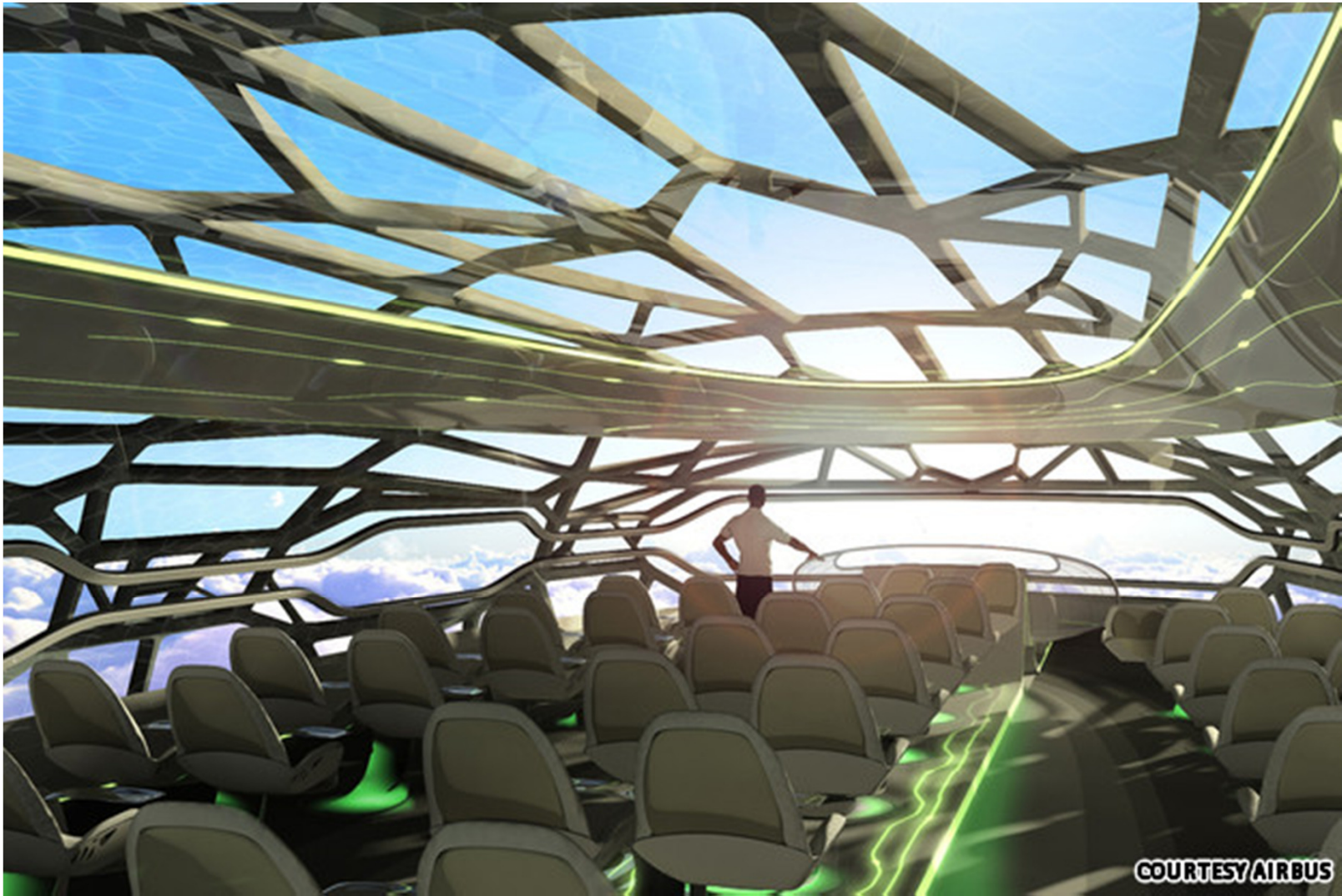
**Damage control:**  
Concrete structures

engineer self-healing mechanisms into concrete itself. But the authors of a new

# Transparent Aluminum

vía MAKE de Sean Ragan el 17/01/12





VIDEO

# Hacia una tabla periódica artificial

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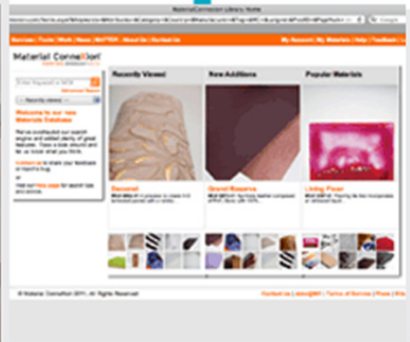
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**Materials Library**  
Access the world's largest resource for advanced, innovative and sustainable materials and processes.



**Material ConneXion has a New Materials Database**  
We've overhauled our search engine and added plenty of great features.



**Material ConneXion at Pack Expo**  
October 28-31, 2012  
Mark your calendars - Material ConneXion will be exhibiting at Pack




**DyeCoo Announces Winner of Material of the Year**  
In an announcement from ICFF at the Jacob Javits Center in New York, Dr

## News

# Emulating, and surpassing, nature

17 October 2011

Design rules will enable scientists to use DNA to build nanomaterials with desired properties 

Nature is a master builder. Using a bottom-up approach, nature takes tiny atoms and, through chemical bonding, makes crystalline materials, like diamonds, silicon and even table salt. In all of them, the properties of the crystals depend upon the type and arrangement of atoms within the crystalline lattice.

Now, a team of Northwestern University scientists has learned how to top nature by building crystalline materials from nanoparticles and DNA, the same material that defines the genetic code for all living organisms.



*Annu Rev Biochem.* 2010;79:65-87. doi: 10.1146/annurev-biochem-060308-102244.

## Nanomaterials based on DNA.

Seeman NC.

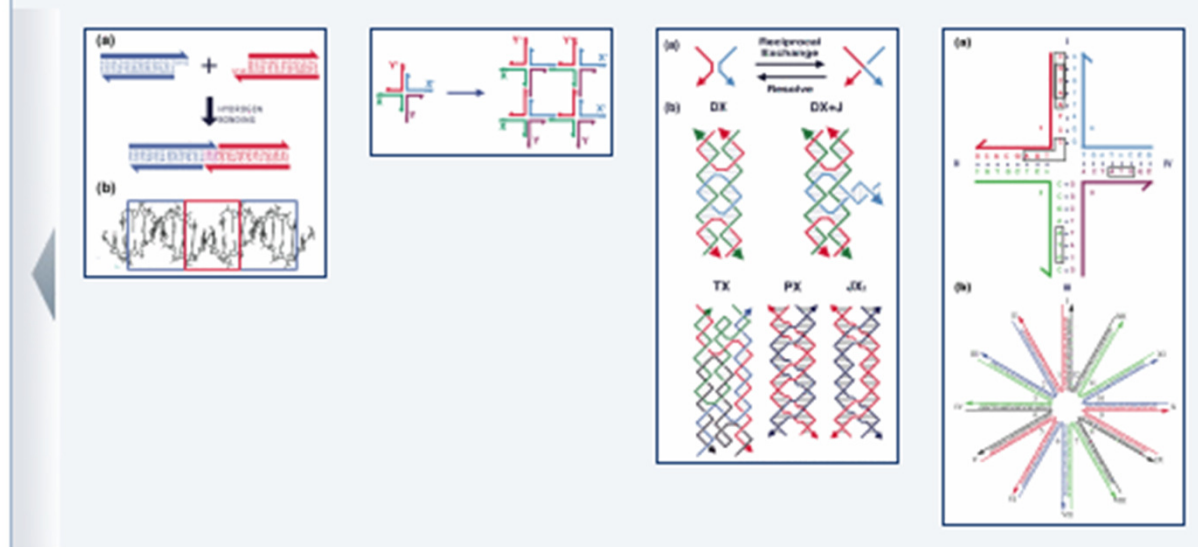
Department of Chemistry, New York University, New York, New York 10003, USA. ned.seeman@nyu.edu

### Abstract

The combination of synthetic stable branched DNA and sticky-ended cohesion has led in the past 30 years. The basis of this enterprise is that it is possible to construct novel DNA-assembly protocols. Thus, simple branched molecules lead directly to the construction of crystals and whose vertices correspond to the branch points. Stiffer branched motifs can be used to construct two-dimensional periodic lattices of DNA (crystals). DNA has also been used to make a variety of devices that can change their shapes and molecules that can walk along a DNA sidewalk. Devices have sequence-dependent functions that are driven by increases in nucleotide pairing at each step.

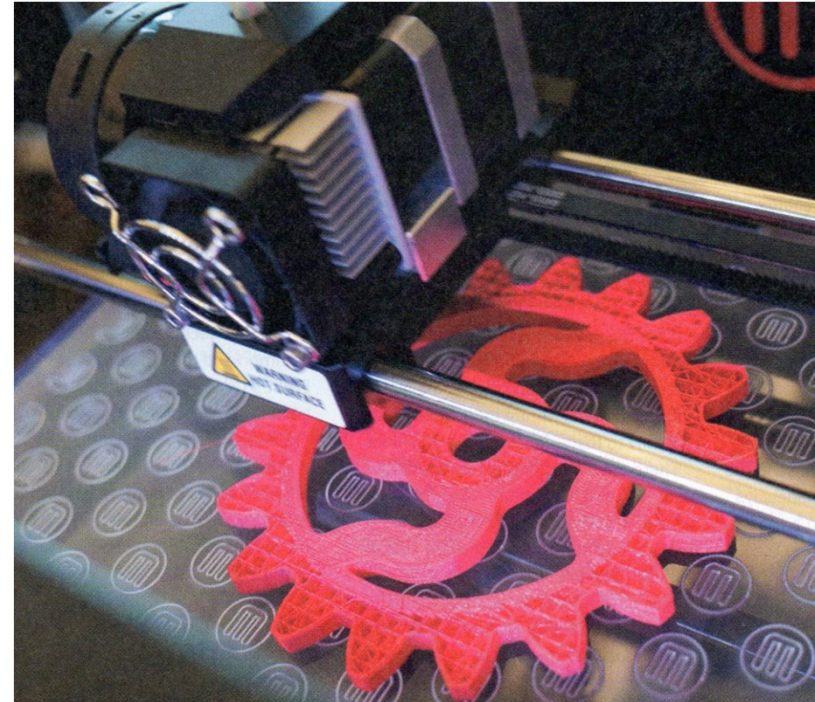
PMID: 20222824 [PubMed - indexed for MEDLINE] PMCID: PMC3454582 [Free PMC Article](#)

Images from this publication. [See all images \(10\)](#) [Free text](#)



# 3-d printing







**THE DESIGN ISSUE**

MAKE BELIEVE | OCT 2012

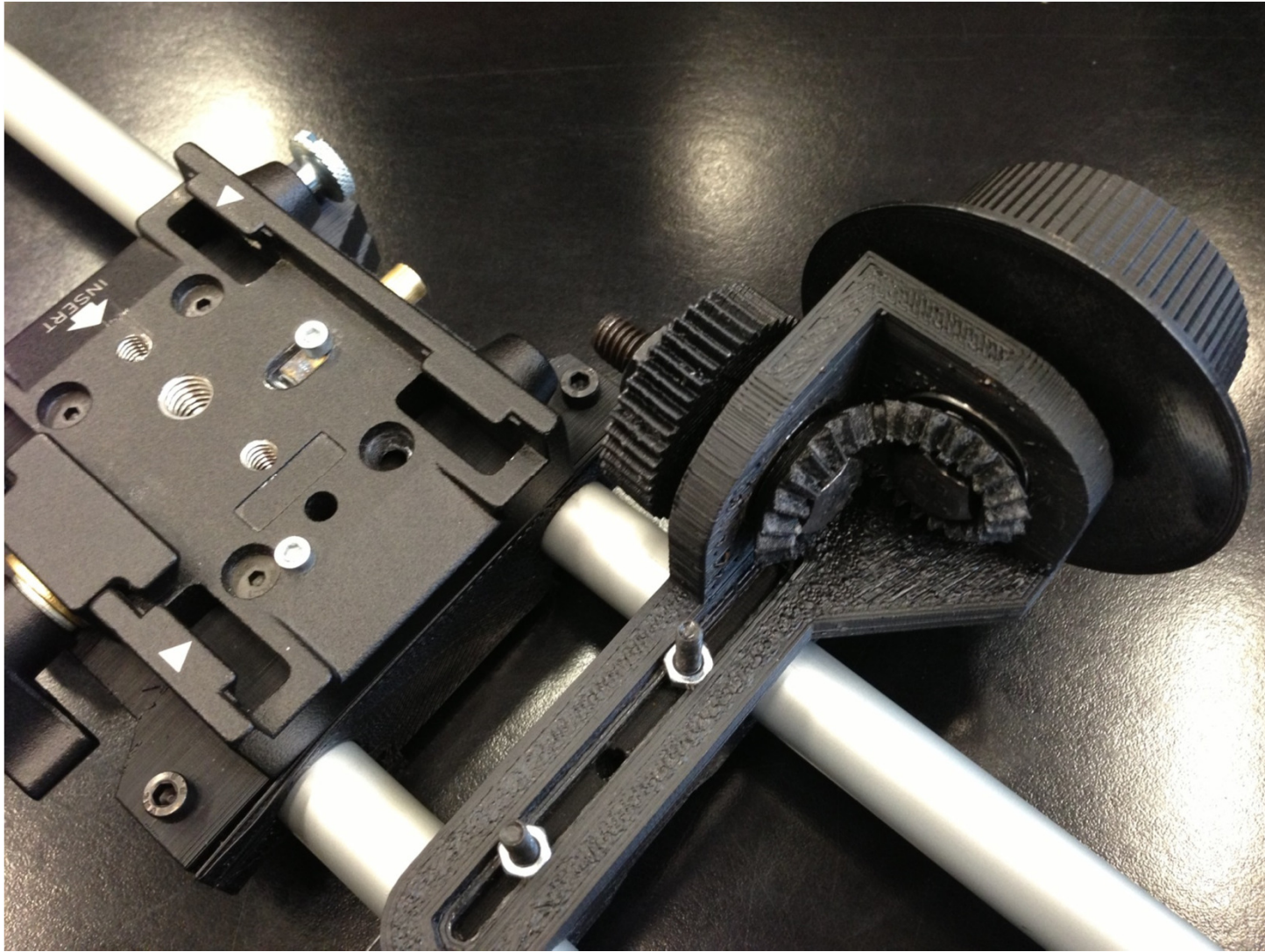
# THIS MACHINE WILL CHANGE THE WORLD

Print amazing objects at home!

**PLUS**

How Nerf Became the World's Best Purveyor of Big Guns for Kids

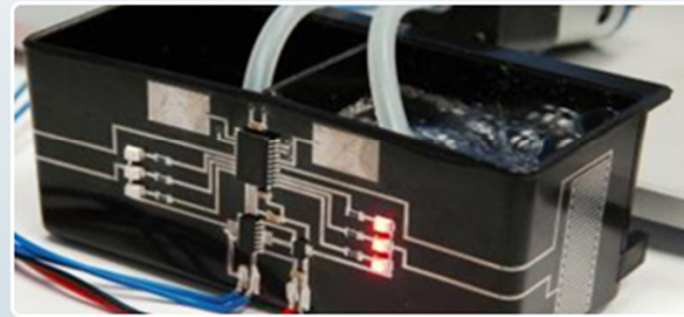
**THE NEW REPLICATOR 3-D PRINTER**



## Realize the Possibility

To create novel solutions to challenging design problems

▶ 3D PRINTED ELECTRONICS



Courtesy of FKIA Project: Bavarian Research Foundation

### Selected Press Releases

[Aerosol Jet Featured in The Economist "Print me a Phone" Article](#)

[Aerosol Jet Lab-New Expanded Location](#)

[3D Printing is Merged with Printed Electronics](#)

[Frost & Sullivan Enabling Technology Award](#)

.....

## OPTOMECH ADDITIVE MANUFACTURING SOLUTIONS

For 2D Printed Electronics



For 3D Printed Electronics



Courtesy of Neotech/FAPS

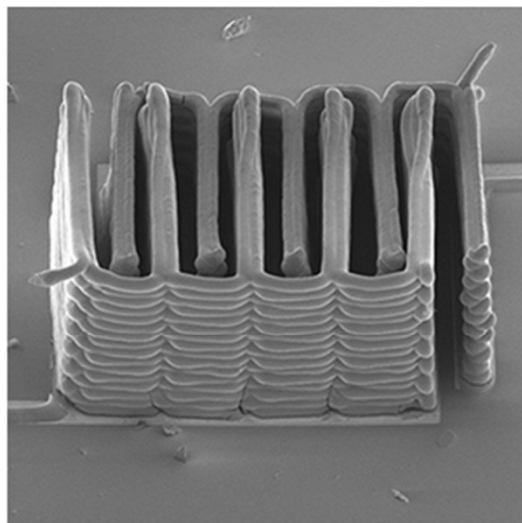
For 3D Printed Metals



# A Battery and a “Bionic” Ear: a Hint of 3-D Printing’s Promise

Laboratory advances hint at how additive manufacturing technology could change the way some electronic devices are made.

By Mike Orcutt on July 4, 2013



**Power ink:** This scanning electron microscope image shows a 3-D printed lithium-ion battery. Tiny nozzles deposit anode and cathode inks in the precise architecture

Today’s 3-D printers can generally only build things out of one type of material – usually a plastic or, in certain expensive industrial versions of the machines, a metal. They can’t build objects with electronic, optical, or any kind of functions that require the integration of multiple materials. But recent advances in the research lab – including a 3-D printed battery and a bionic ear – suggest that this might soon change.

Last month, researchers unveiled what they say is the world’s first 3-D printed battery, made from two different electrode “inks.” Led by [Jennifer Lewis](#), a professor of biologically inspired engineering at Harvard, the group used tiny nozzles to precisely deposit the anode and cathode inks, which contain

nanoparticles of lithium titanium oxide and lithium iron phosphate, respectively. In a [paper](#) in *Advanced Materials*, the researchers described printing millimeter-scale rechargeable batteries, which could be used to power things like small wireless sensors and medical devices. The batteries, each of which can be printed in minutes, demonstrated impressive electrochemical performance.



**MIMIC *in vivo* COMPLEXITY**

*Organovo makes functional human tissues* using three-dimensional bioprinting technology. Imagine the questions you can answer in 3D.

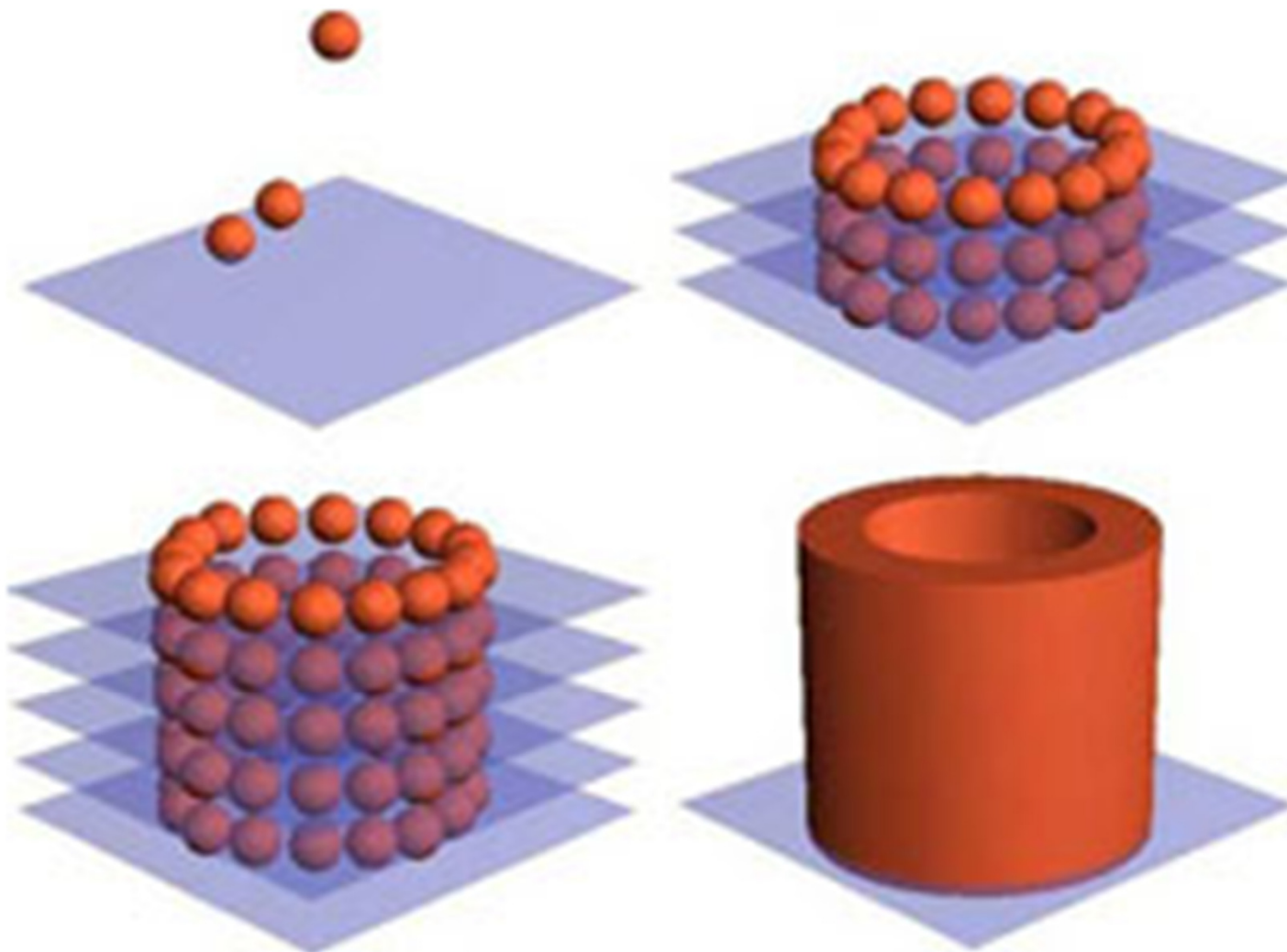
ACTUAL BIOPRINTED TISSUE

## Structurally and functionally accurate bioprinted human tissue models

At Organovo, we design functional human tissues. Our bioprinting technology enables the creation of 3D tissues that more accurately reproduce native tissues.

Our focus is on developing a range of tissue and disease models for medical research and therapeutic applications.





# La NASA invierte en impresoras 3D de alimentos

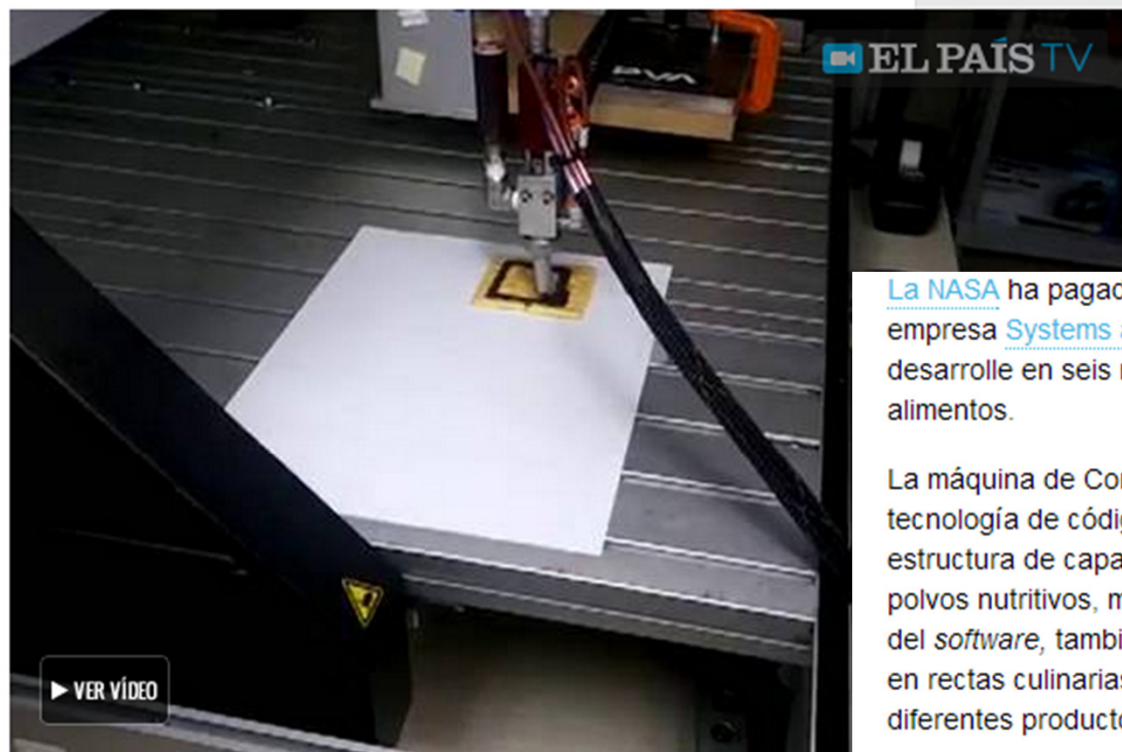
- Invierte 100.000 euros en el proyecto de Anjan Contractor, que anuncia una nueva era en las dietas personales de nutrición

JAVIER MARTÍN | Madrid | 22 MAY 2013 - 11:26 CET

67

**Archivado en:** Impresoras Tecnología 3D NASA Agencias espaciales Periféricos Tecnología Astronáutica Estados Unidos Informática Norteamérica Industria América Ciencia

Enviar vídeo



Impresión 3D de chocolate.

La NASA ha pagado 100.000 euros a Anjan Contractor, ingeniero de la empresa [Systems and Materials Reserach Corporation](#) (SMRC) para que desarrolle en seis meses una impresora 3D capaz de reproducir alimentos.

La máquina de Contractor, ingeniero y fundador de SMRC, empleará tecnología de código abierto [RepRap](#). En principio lo más fácil, por su estructura de capas, es diseñar una pizza compuesta por tres capas de polvos nutritivos, más aceite y agua. Contractor añadirá los contenidos del *software*, también en código abierto, que consistirá, en esta ocasión, en recetas culinarias para que la impresora mezcle adecuadamente los diferentes productos, todos ellos en estado líquido o espolvoreado.

Nano



La mayonesa es nano...

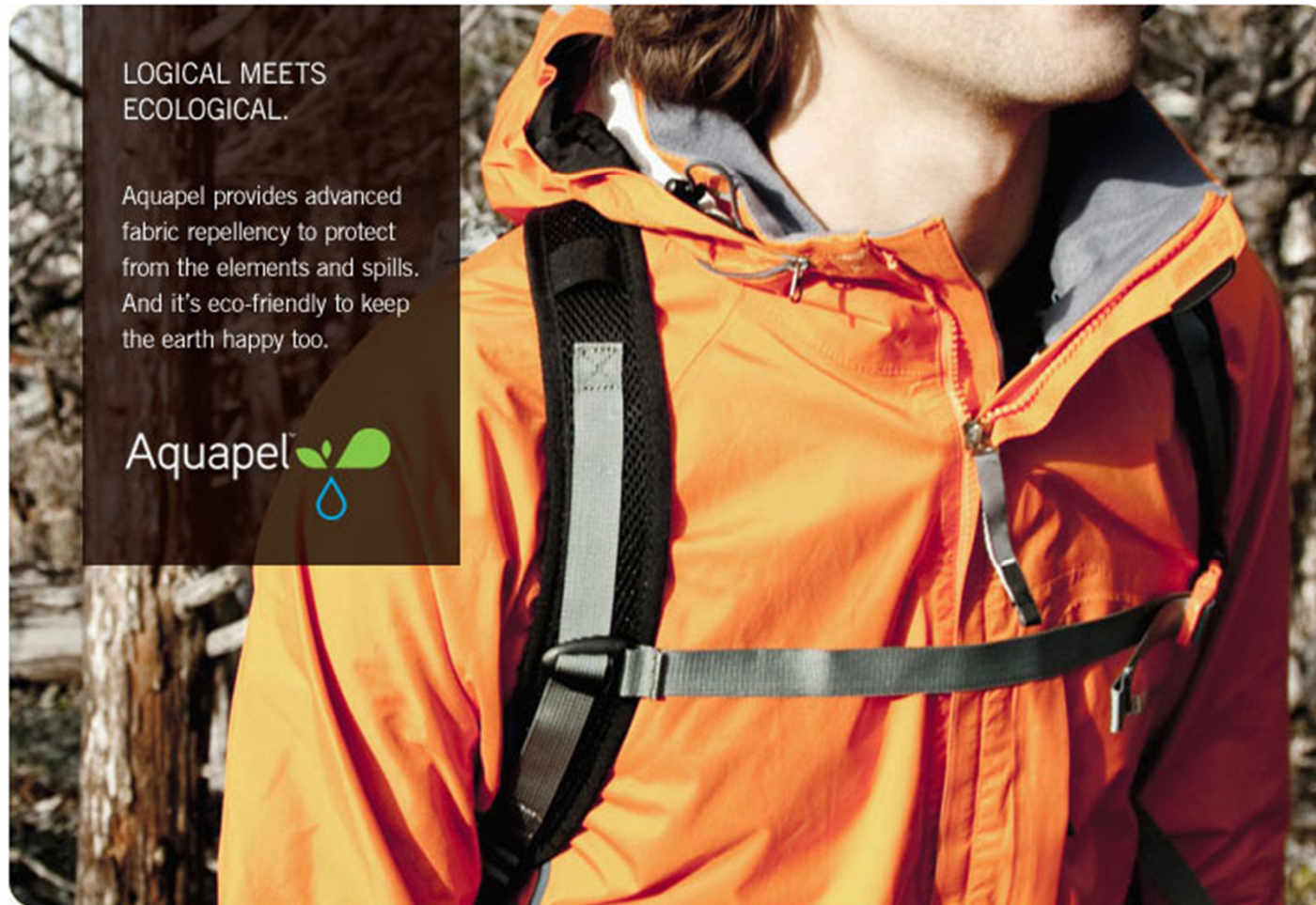


# UNSTOPPABLE

Congratulations **Rafa "EL UNICO" Nadal**  
for your fabulous 8th victory @ the 2013 French Open  
with your Babolat AeroPro Drive racquet and your RPM Blast strings.


VIDEO

NANotex®

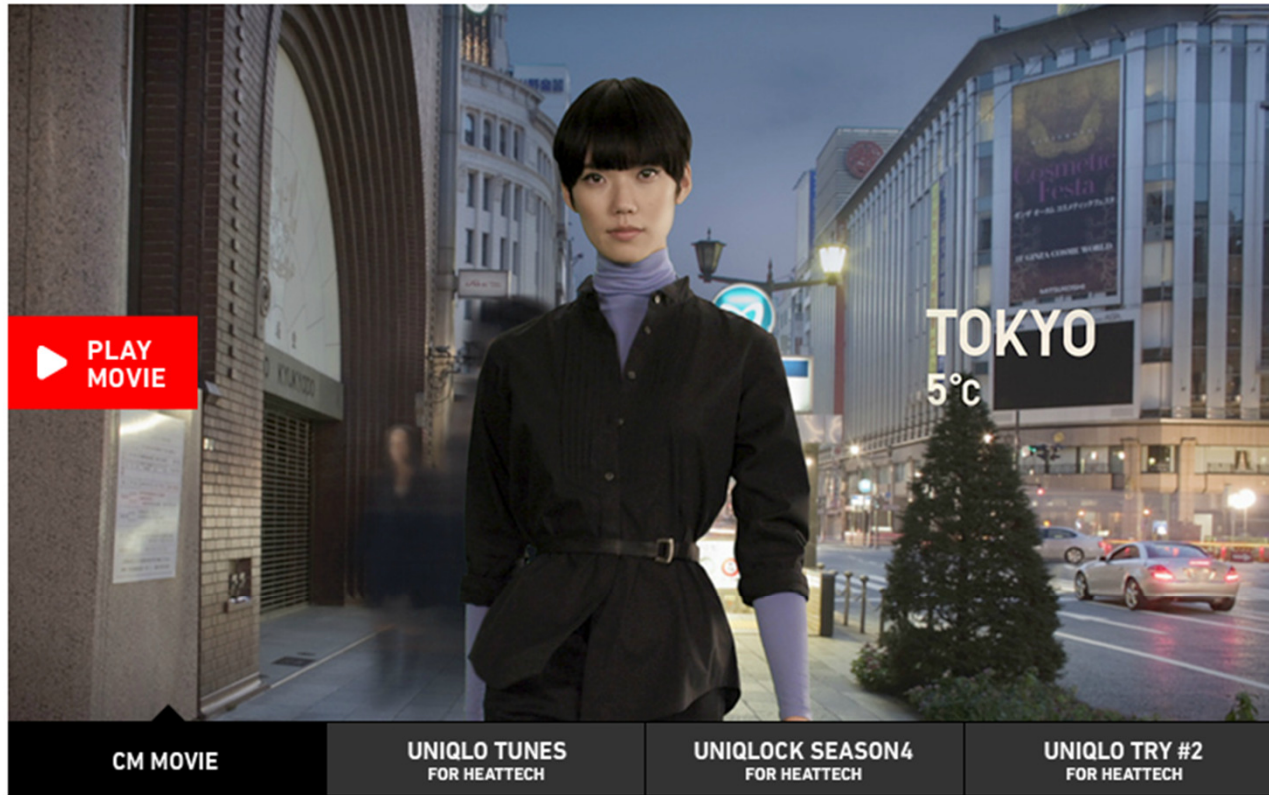


LOGICAL MEETS  
ECOLOGICAL.

Aquapel provides advanced fabric repellency to protect from the elements and spills. And it's eco-friendly to keep the earth happy too.

Aquapel 





▪ SEVEN TECHNOLOGIES

**Heat Generation**

When HEATTECH absorbs body moisture, the movement of tiny droplets actually generates heat to keep you warm.

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Air pockets between the fibers retain both body warmth and the warmth generated by HEATTECH's moisture absorption.

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A special antibacterial agent in HEATTECH helps to minimize odors.

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HEATTECH stretches to give you a perfect fit and maximize comfort.

# LIQUID-ARMOR (10 ml Spray Bottle)

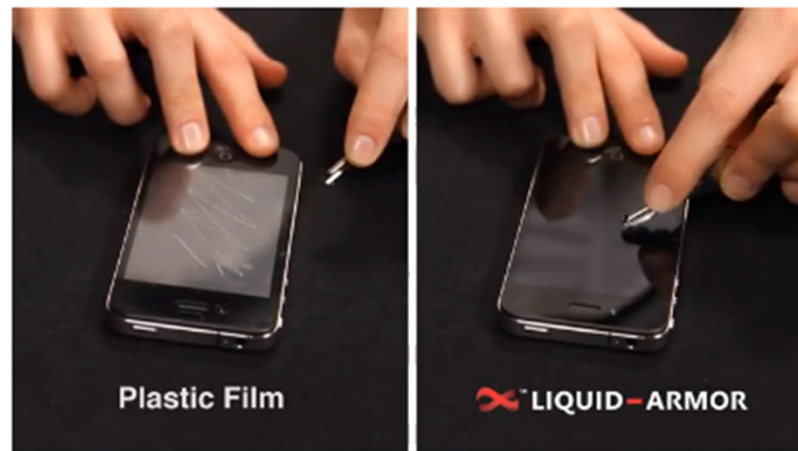
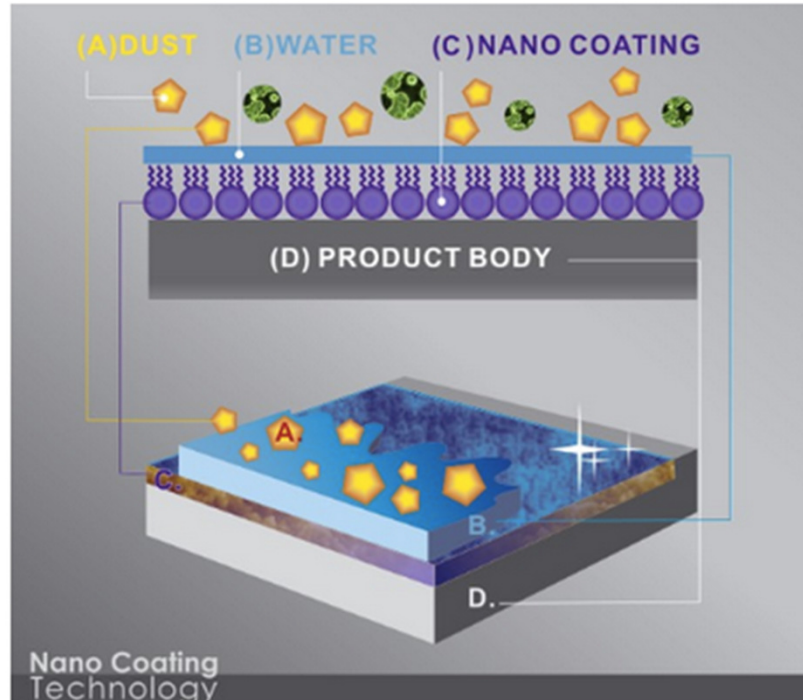
Invisible Screen Protector with Nano Technology

P/N: LA10

LIQUID-ARMOR a remarkable Nano coating technology that shines and protects your portable device screen like nothing else! One simple application of LIQUID-ARMOR with unique anti-static and weather-resistant formula will repel dust and stains for up to 6 months!

[How to Apply](#) | [Q&A](#)

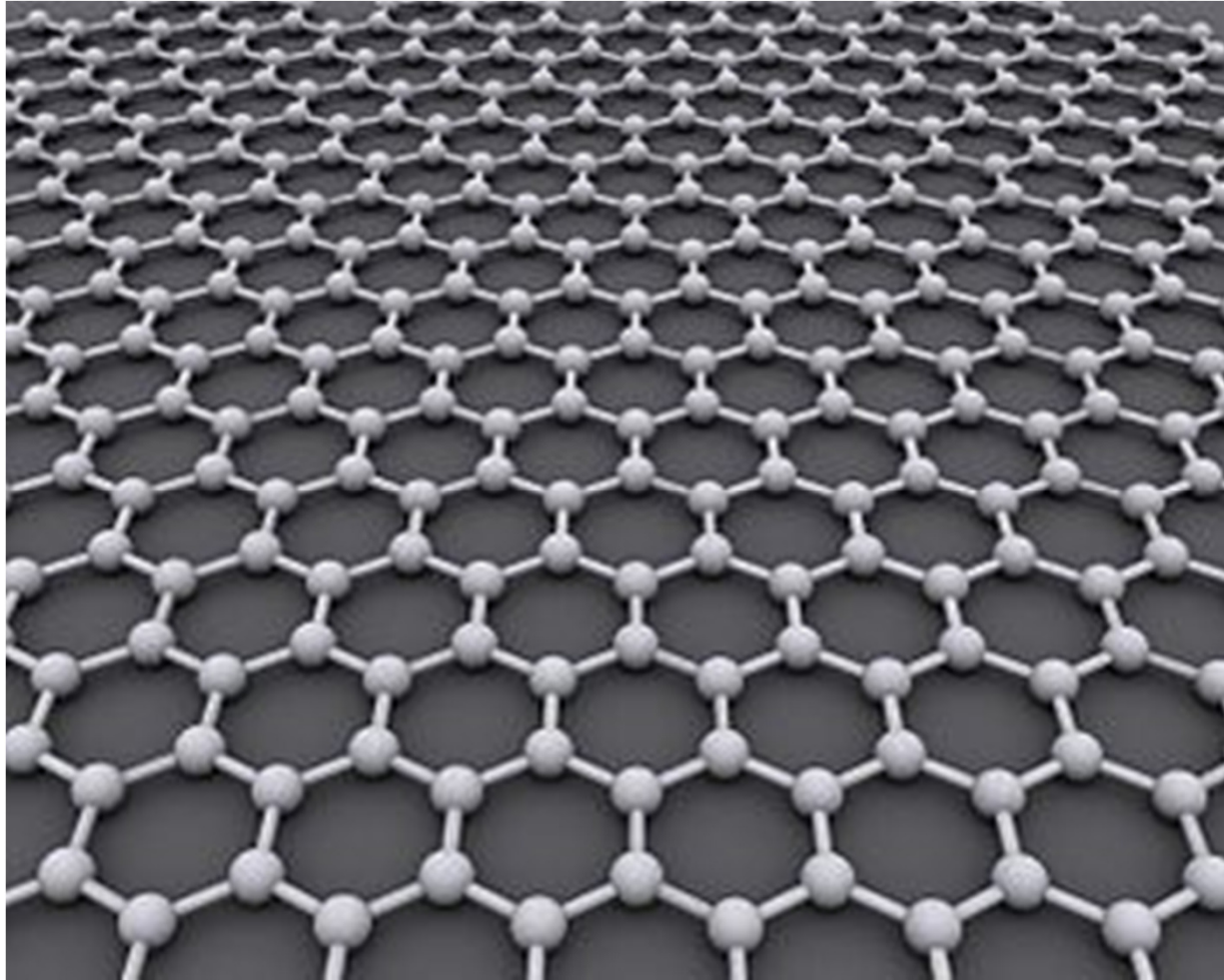
\$24.99





This year Age UK is hoping to spread the message about its [Spread the Warmth](#) campaign, which seeks to help elderly people stay safe and healthy during the cold winter months, to as many people as possible. To kick start the campaign they have collaborated with [The Telegraph Magazine](#) to create an innovative front cover. The image consists of a photo of Age UK's celebrity ambassador Lynda Bellingham in a dull and grey living room. It will be printed in thermal ink so that when readers put a finger on one of the grey items in the picture, it will turn orange, demonstrating how older people can be made warmer through reader donations.

# Graphene



 **VorbeckMaterials**  
realizing graphene's possibilities



 **Vor-ink™**  
a revolution in conductive ink —  
enabling cheaper, easier, greener  
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[vorbeck.com](http://vorbeck.com)



## graphenano primer **fabricante** del mundo de grafeno a **escala industrial.**



Video de introducción al grafeno

1

### Algunos datos

Empresa joven y dinamica; capital social de la compañía 90% español y 10% alemán; la sede de nuestra empresa esta en Alicante, con fáciles conexiones internacionales. Nuestro centro de producción se encuentra en Ciudad Real, cerca de la Universidad con la que tenemos firmado un acuerdo de Colaboración

2

### UCLM

Nuestra empresa tiene un acuerdo de colaboración con la UCLM Ciudad Real "Facultad de Ingeniería Química", Dispone de los equipos más avanzados de investigación en Nanotecnología y su equipo colabora con nuestros científicos en nuevas aplicaciones de los nanoproducidos fabricados por Graphenano.

3

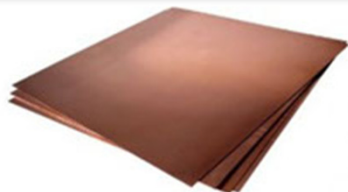
### Delegaciones

Actualmente Graphenano dispone de oficina en Munich, desde donde se trabaja con los clientes de Centro-Europa. También disponemos de un delegado Comercial en Suiza.



## Nuestro Sistema

Nuestro equipo de investigación ha desarrollado un método de fabricación fiable y seguro, obteniendo varias producciones de grafeno al día y de unos tamaños extraordinarios. El sistema de fabricación de graphenano permite suministrar grafeno en distintas presentaciones y/o nanofibras de carbono a multitud de empresas para sus investigaciones o para implantar directamente en sus productos



### Laminas



150x100 mm



150x250mm

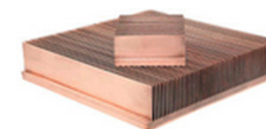


500x500 mm



### Cables

Consultenos la medida que desea



### Piezas 3d

Consultenos la pieza que desea con grafeno



### Transferido a otros soportes

Cristal, PET, PEN, Cuarzo., indiquenos en que material y que medida necesita.



### Grafeno en Polvo



100gr



200gr



500gr



### Oxido de Grafeno



100gr



200gr



500gr



# avanzare

nanomaterials .... part of our everyday life

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## Video



Avanzare.es

## Products & Applications

AVANZARE is a supplier of high-performance nanomaterials and nanotechnology based solutions used in a wide range of products for everyday life. AVANZARE nanomaterials and nanocomposites create added values and competitive advantages for our customers. In many applications, our nanomaterials allow the reduction of costs compared to traditional materials.

Our nanomaterials are liquid or solid formulations and custom solutions for big consumers. Principal customers are automotive, aeronautic, fabric, wood, paper, plastic, rubber, paint and building industries, the wire & cable sector and manufacturers of household appliances and packaging.

Most of our materials are multifunctional, allowing to obtain 2 or several properties with just a product. Principal properties of our materials are:

- ▶ Fire resistant
- ▶ Anti-scratch
- ▶ Conductivity & Antistatic
- ▶ Hardness
- ▶ Wear Resistance
- ▶ Anti UV

# Descubren las propiedades del grafeno para convertir la luz en electricidad

Este hallazgo supondrá una revolución en el campo de la tecnología y la energía solar durante este siglo, comparable a la fabricación del plástico en el siglo XX

Ciencia | 25/02/2013 - 12:27h | Actualizada a las 14:11h



45

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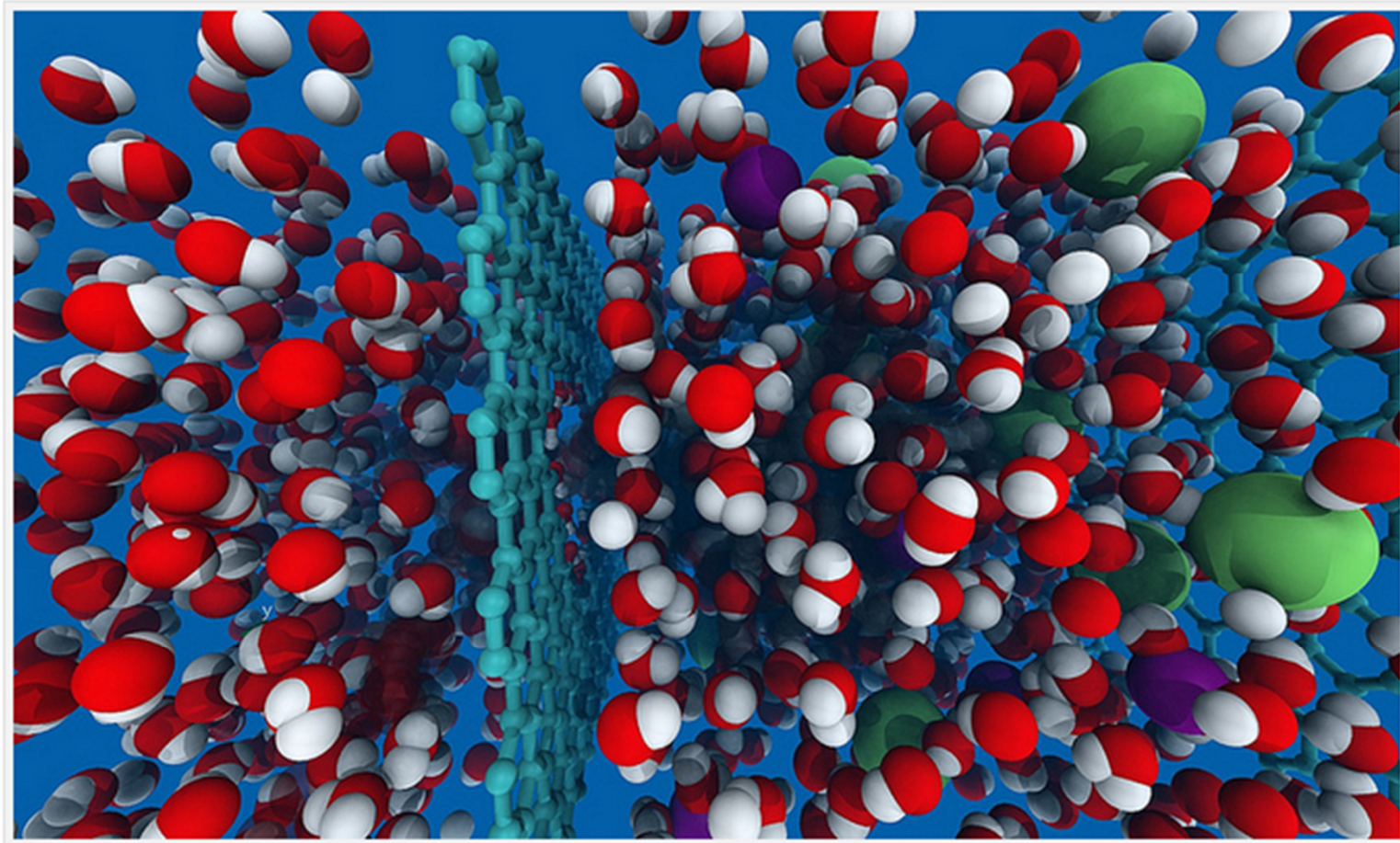
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+1 22

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Barcelona. (Efe).- Una investigación del Instituto de Ciencias Fotónicas (ICFO) de Barcelona ha descubierto una **nueva propiedad del grafeno**: su gran eficiencia en **convertir** la energía de la **luz** en **electrones** y por tanto en **corriente eléctrica**, lo que supone una revolución en el campo de la energía fotovoltaica.

## Water Desalination Using 99% Less Energy With Pefrorene



Lockheed Martin's Pefrorene, made from a single atom 100 nanometer thick sheet of graphene is 500 times thinner than the best desalination Reverse Osmosis technology available today and cuts energy expenses involved in the process by 99%.

# Robots

# VIDEOS

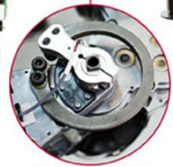
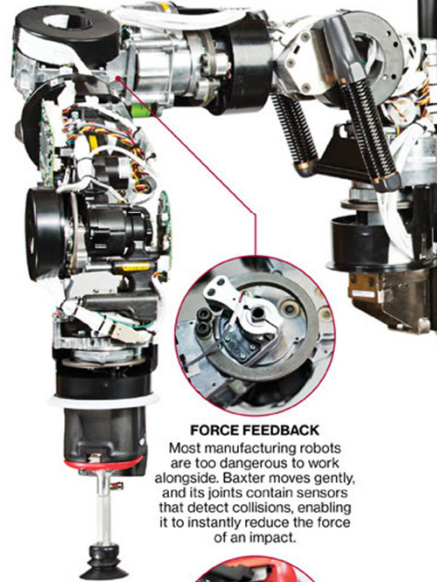


**THE EXPRESSION SAYS IT ALL**  
Baxter's face indicates its status and where its attention is focused. It can also sense the location of people nearby, thanks to a ring of sonar sensors around its crown.



**HANDS-ON TRAINING**  
Workers teach Baxter to perform a task by moving its arms, but they can access more features using dials and buttons on its forearms.

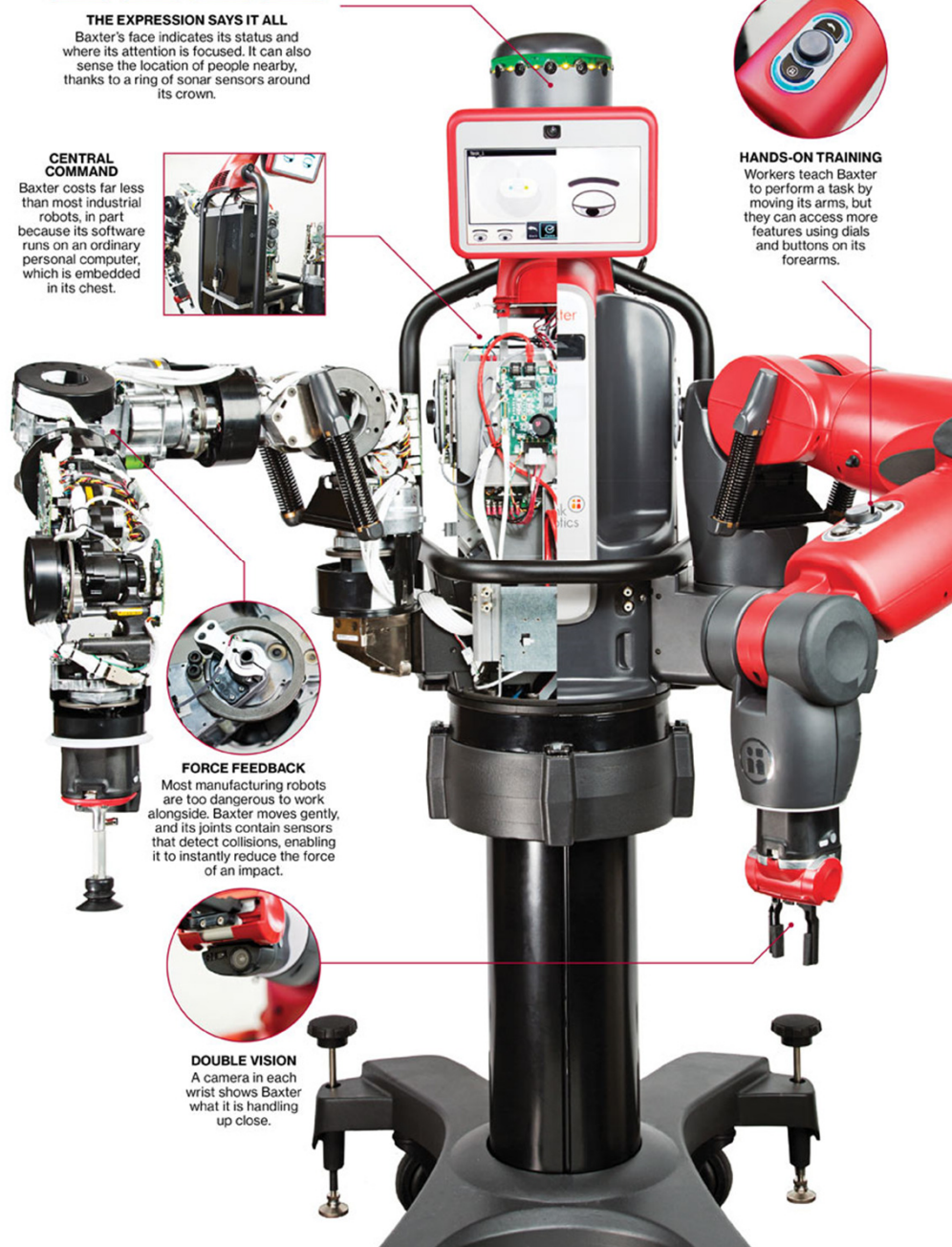
**CENTRAL COMMAND**  
Baxter costs far less than most industrial robots, in part because its software runs on an ordinary personal computer, which is embedded in its chest.





**FORCE FEEDBACK**  
Most manufacturing robots are too dangerous to work alongside. Baxter moves gently, and its joints contain sensors that detect collisions, enabling it to instantly reduce the force of an impact.




**DOUBLE VISION**  
A camera in each wrist shows Baxter what it is handling up close.




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## How 3 Million Hours Of User-Testing Fixed The Jawbone Up

Pulled from store shelves after a month, the first high-profile wearable activity tracker was a humiliation for Jawbone. Now, the Up is back, and anyone vying for a stake in wearable tech should pay close attention to the product's resurrection.

[READ MORE >](#)

[jawbone.com/up](http://jawbone.com/up)

# FINANCIAL TIMES

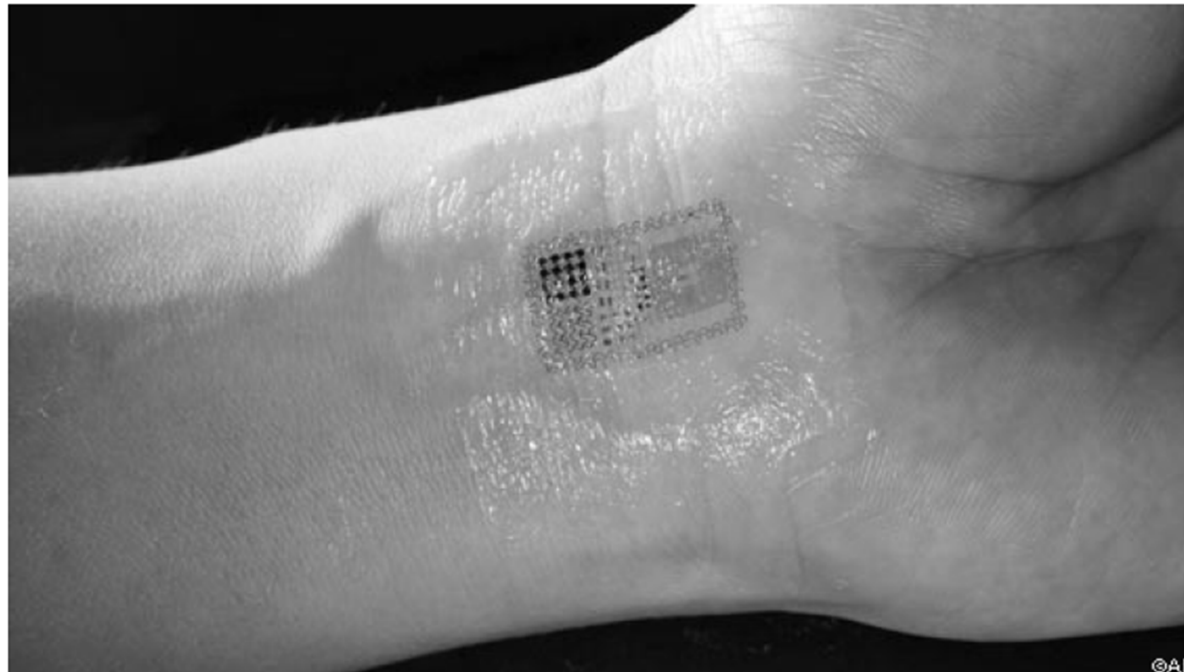
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August 12, 2011 10:41 am

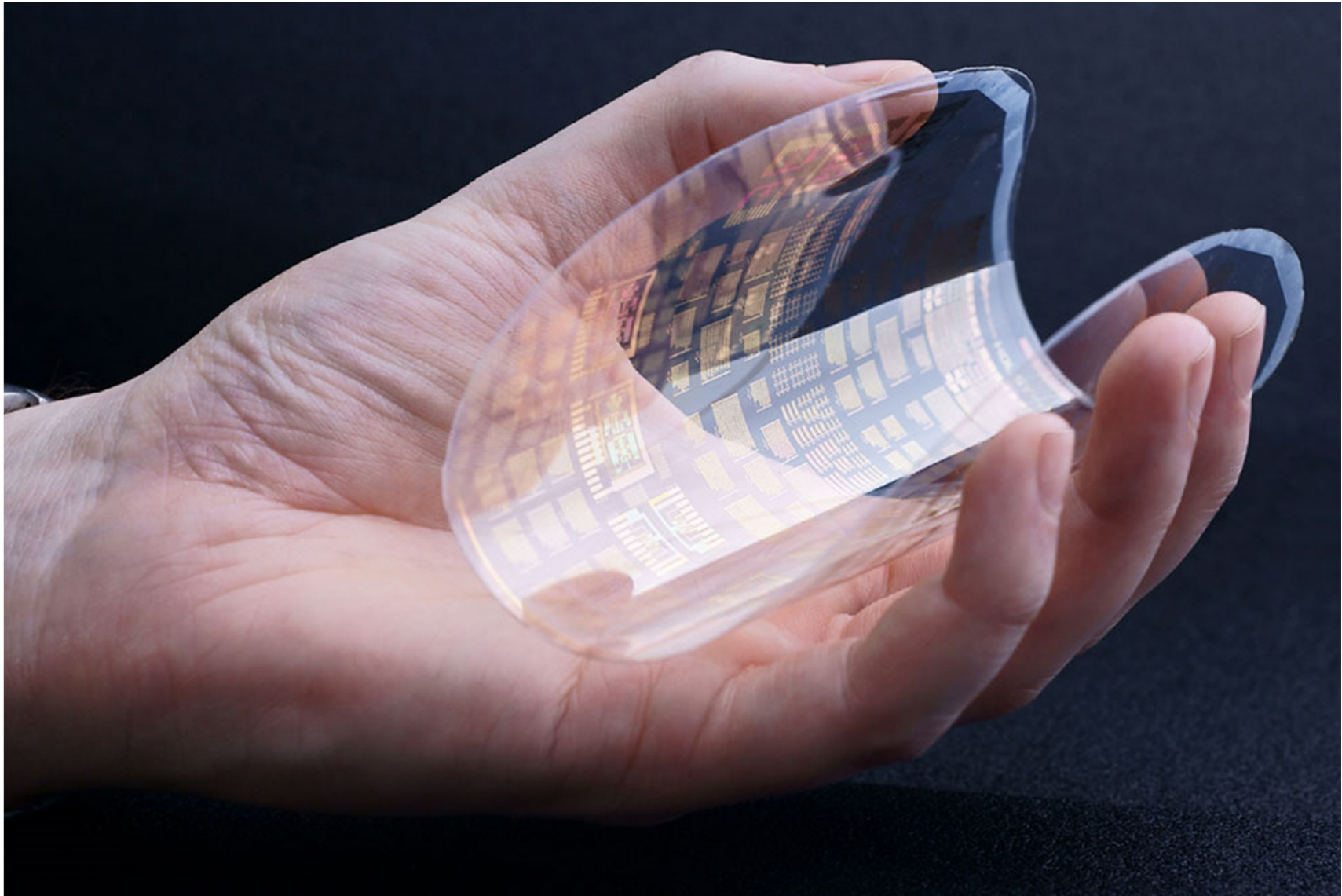
## 'Smart skin' biomedical breakthrough

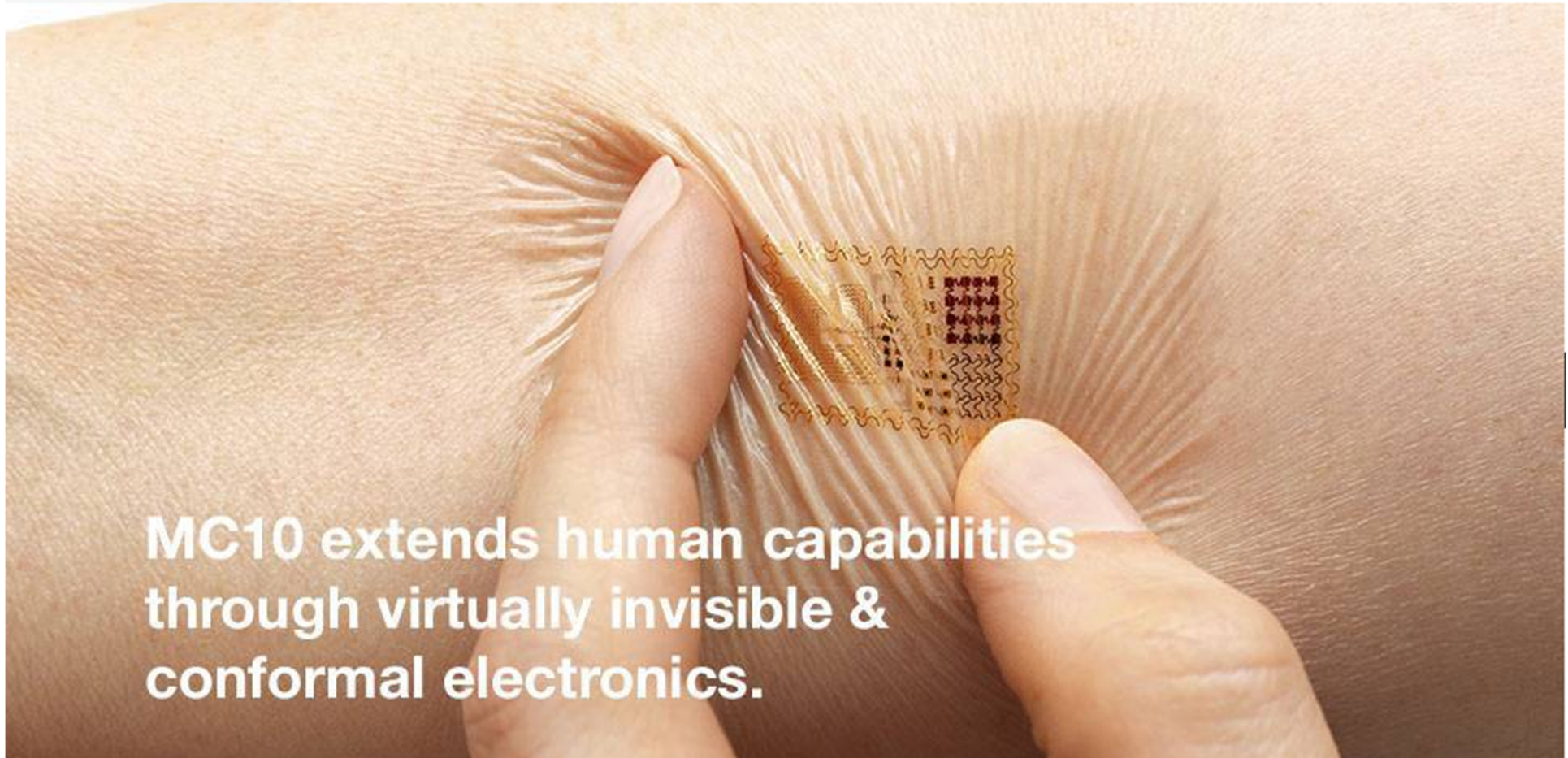
By Clive Cookson in London

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Smart skin, an ultra-thin electronic platform that sticks on the human body like a temporary tattoo, has been developed by a US-based engineering collaboration.





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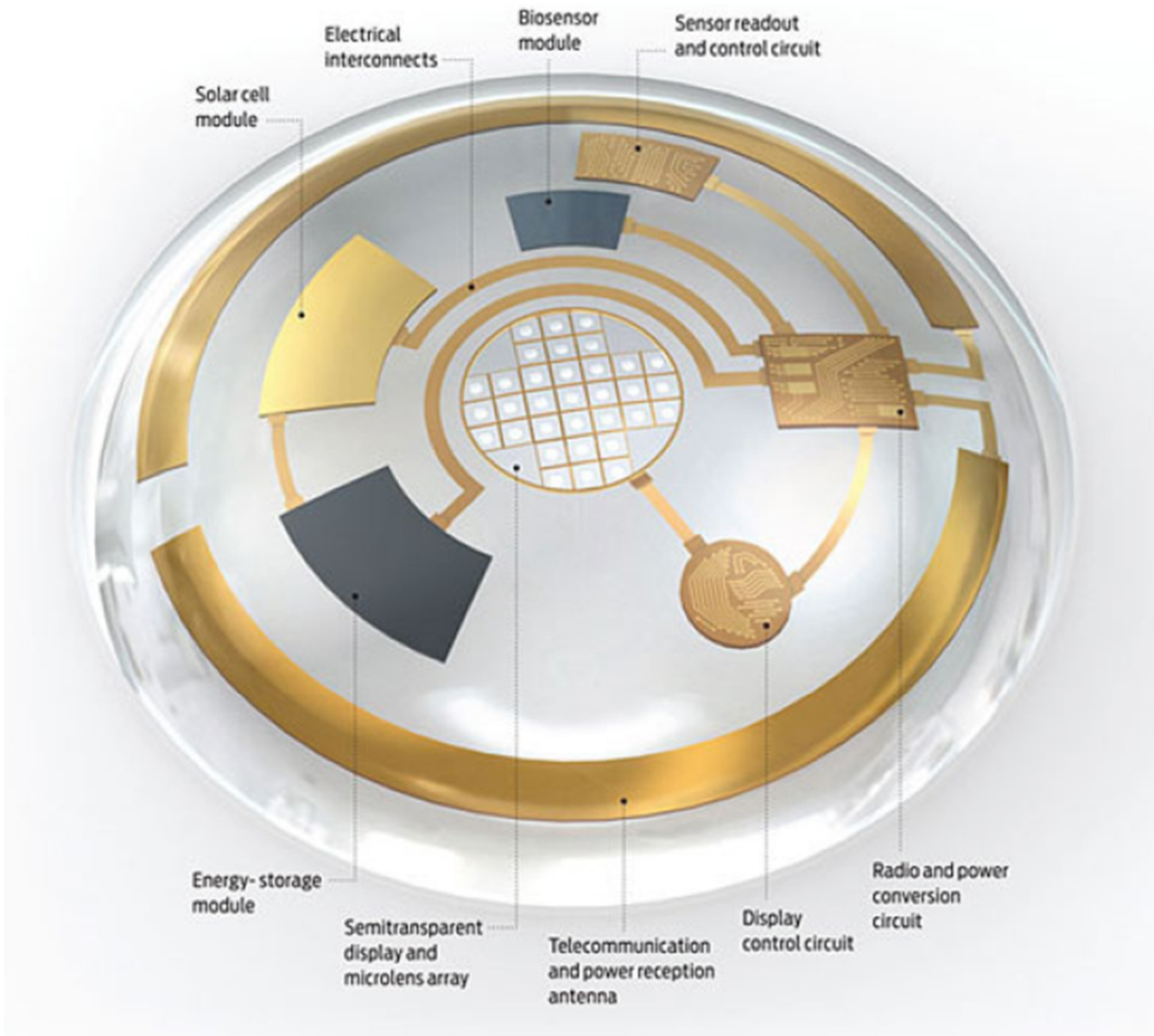
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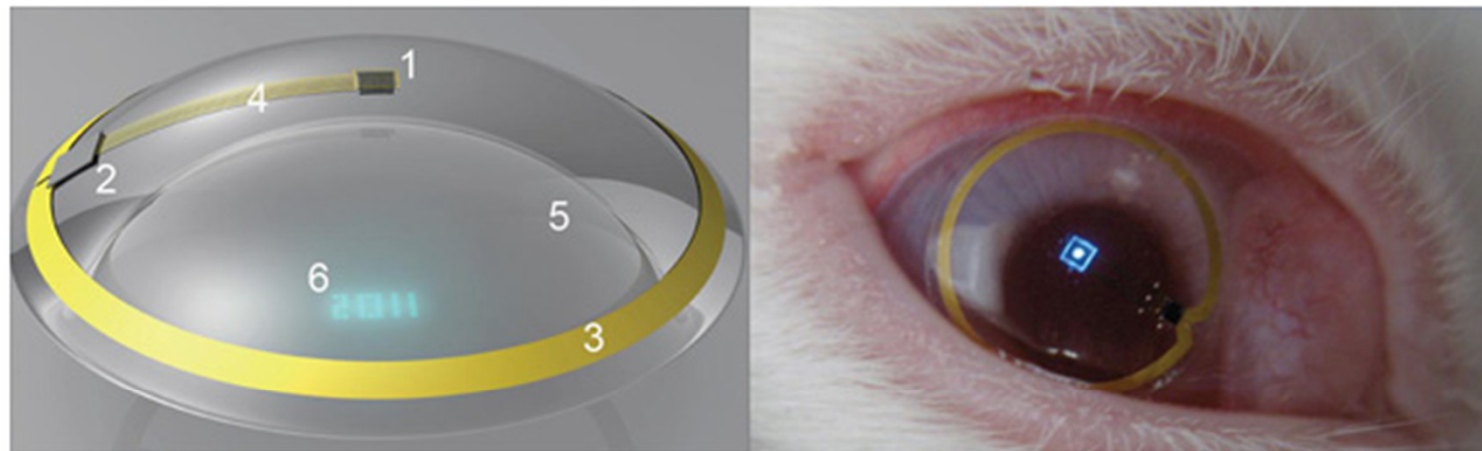


# Electronic contact lens displays pixels on the eyes

00:00 22 November 2011

Augmented reality

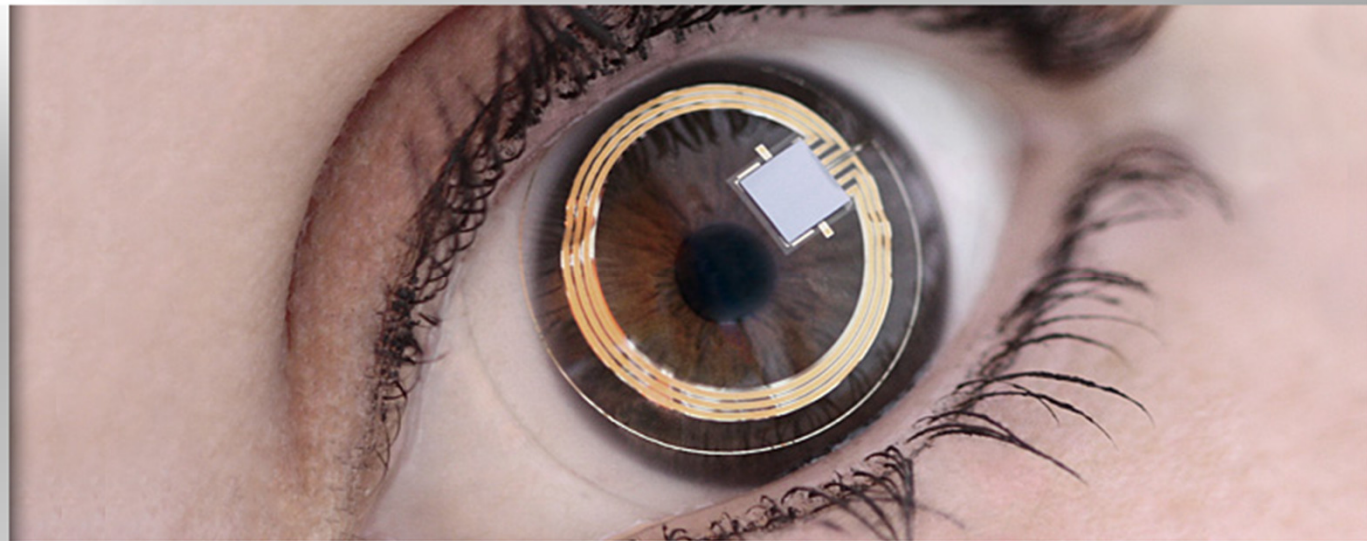
*Paul Marks, senior technology correspondent*



*(Image: Institute of Physics)*

The future of augmented-reality technology is here - as long as you're a rabbit. Bioengineers have placed the first contact lenses containing electronic displays into the eyes of rabbits as a first step on the way to proving they are safe for humans. The bunnies suffered no ill effects, the researchers say.

SENSIMED AG



*A breakthrough solution to continuously  
monitor fluctuations of intraocular pressure in  
glaucoma treatment*

**NEWS IN BRIEF !**

▶ 21-02-2013  
**Presentation of Sensimed at the 4th Annual  
Ophthalmology Innovation Summit //  
November 8th, 2012 - Chicago**  
The SENSIMED Triggerfish

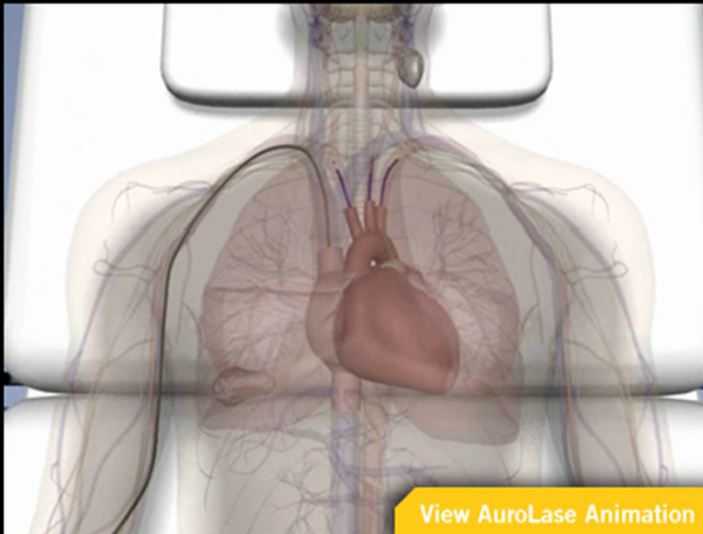
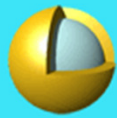
▶ 25-01-2013

# Wireless blood test implant can detect heart attacks early, researchers say

By [Carl Franzen](#) on March 19, 2013 08:03 pm [Email](#) [@carlfranz](#)



*"OUR SYSTEM COULD DETECT THIS MOLECULE THREE/FOUR HOURS IN ADVANCE OF THE FATAL EVENT."*



[View AuroLase Animation](#)

**Nanospectra Biosciences, Inc.** is commercializing particle-based therapies for the selective and precise thermal destruction of solid tumors while minimizing damage to healthy adjacent tissue and preserving critical structures. Based in Houston, Texas, the Company was founded on intellectual property from Rice University and collaborative research with scientists at MD Anderson Cancer Center.

## TUMOR ABLATION USING AUROLASE® THERAPY

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AuroLase Therapy utilizes the unique "optical tunability" of a new class of nanoparticles that can convert light into heat to thermally destroy a solid tumor. These particles (AuroShell® particles, also referred to as nanoshells in scientific literature) are designed to absorb near-infrared wavelengths of light that can harmlessly penetrate human tissue. The particles are delivered intravenously and will accumulate in the tumor. The tumor is then illuminated with a near-infrared laser. The particles will selectively absorb the laser energy, converting the light into heat which will thermally destroy the tumor and the blood vessels supplying it without significant damage to surrounding healthy tissue.

## Lasers power Pentagon's next-gen artificial limbs

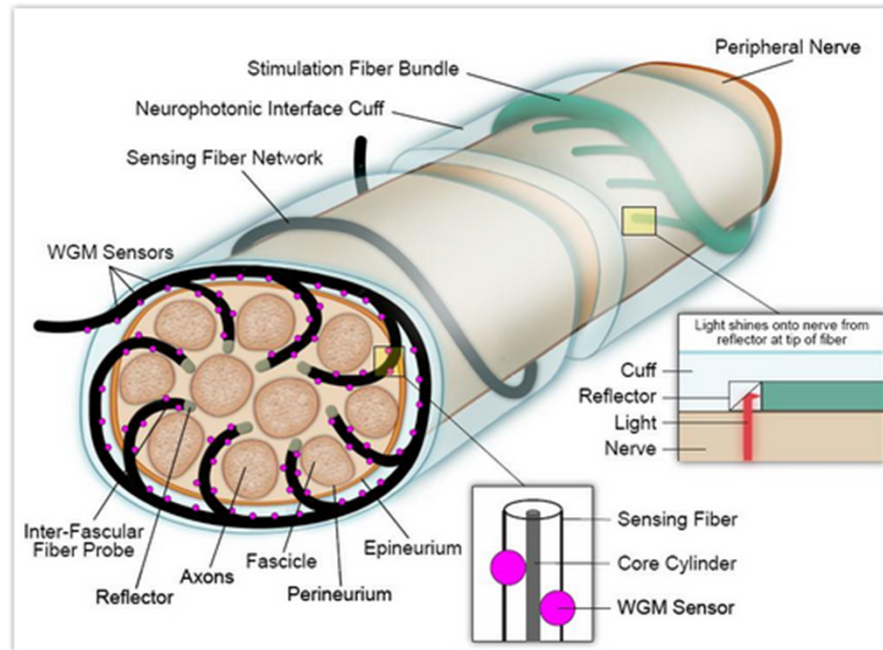
November 4, 2011 by Editor

Brain-controlled prosthetic devices powered by lasers and fiber-optics have been developed by DARPA-funded researchers led by experts at Southern Methodist University, *Wired Danger Room* reports.

A fiber-optic prosthetic for a human patient would be affixed at one end to a prosthetic, and attached at the other to the body's severed nerves. Those are a decade off, but already, researchers say they've nearly climbed the project's biggest hurdle: developing sensors with enough sensitivity to detect and trigger the infinitesimally small perturbations of a single activated nerve.



A soldier shows the different capabilities of his prosthetic hand (credit: U.S. Army)



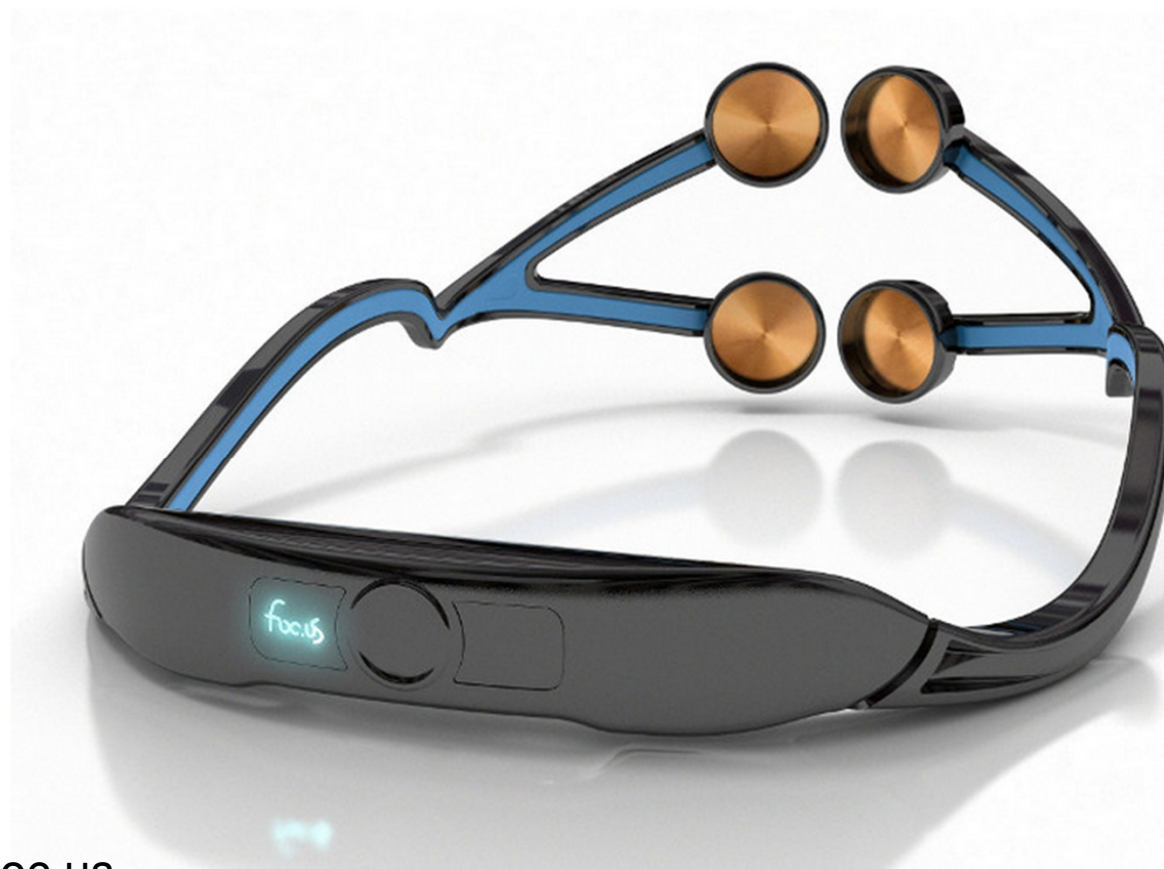


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# Invertir en **disrupción**



# BlackBerry founder hopes to achieve 'Star Trek' future with \$100 million quantum tech fund

By [Sam Byford](#) on March 19, 2013 09:21 pm [Email](#) [@345triangle](#)





BlackBerry creator and ex-CEO Mike Lazaridis has been pursuing his interests in quantum technology since **stepping down from** the company **formerly known as RIM** last year, and he's just unveiled his next move. Lazaridis, together with fellow RIM co-founder Doug Fregin, is starting a \$100 million fund aimed at boosting quantum science breakthroughs with commercial potential. The fund is called Quantum Valley Investments, and follows **Lazaridis' launch of the Quantum-Nano Centre** in Waterloo, Ontario.

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### TWITTER NEWS FEED

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 [about 10 days ago](#) The Scientist Magazine focuses on scientific entrepreneurs, including BOL recipients' Todd Huffman and Caleb Bell [the-scientist.com/?articles.view...](http://the-scientist.com/?articles.view...)

 [about 11 days ago](#) Making Robots Mimic the Human

### NEWS & EVENTS

## Local firms blaze trails to treatment

Boulder County Business Reporter March 29, 2013

By Beth Potter

"Through therapies and drug candidates, bioscience companies in Boulder are developing treatments for heart disease and various forms of cancer." [more](#)

## Start it up

The Scientist April 1, 2013

By Dan Cossins

Young researchers who left the academic path to transform their bright ideas into thriving companies discuss their experiences, and how you can



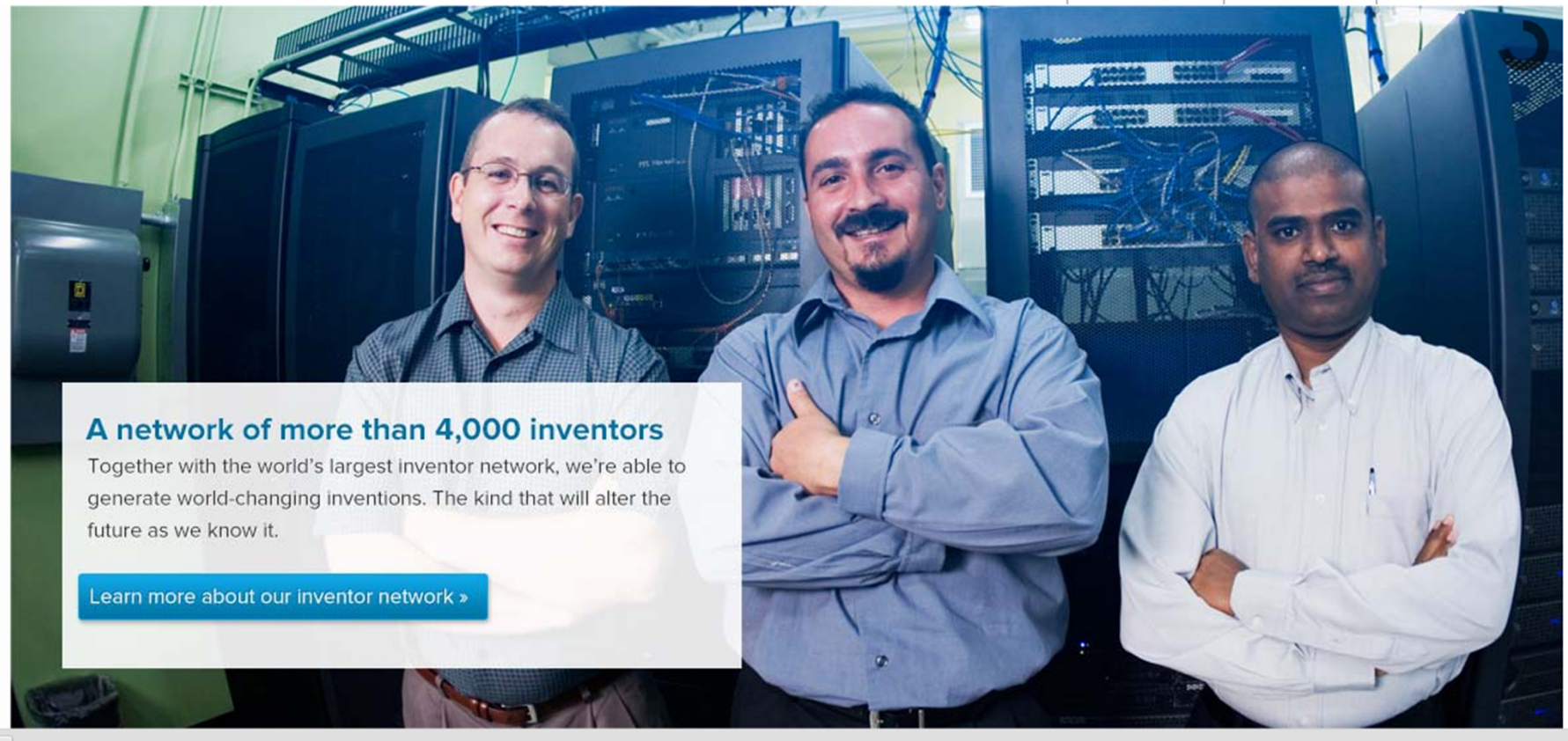


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## La deuda pública de España se duplica desde que empezó la crisis

 JESÚS SÉRVULO GONZÁLEZ | Madrid  416

El endeudamiento de las administraciones públicas pasa del 35,5% en el primer trimestre de 2008 al 72,1% en marzo de este año. En un año ha subido 10 puntos porcentuales

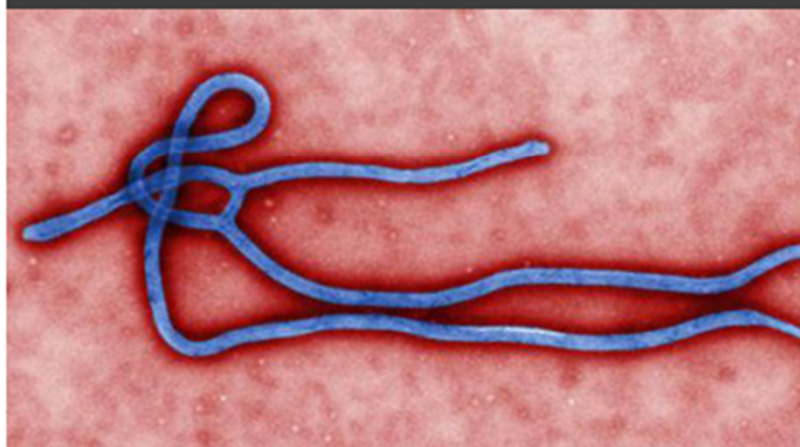


ANÁLISIS

 ▶ [La deuda, en su mayor nivel desde i1913!, por M. J.](#)

### ▶ Un fármaco cura a monos infectados con Ébola

El experimento se ha hecho con la cepa más mortífera del patógeno que, en humanos, mata al 90% de los afectados. Por A. RIVERA




**DIRECTO**

Sigue la videoconferencia en la que se espera que los científicos del CERN anuncien la prueba de que el Bosón de Higgs existe. El descubrimiento supondrá un paso esencial de la física para explicar el origen de la materia. »

LAS REFORMAS DEL GOBIERNO &gt;&gt;

## Hacienda ofrece nuevas facilidades a quienes se acojan a la amnistía fiscal

JESÚS SÉRVULO GONZÁLEZ | Madrid 206

Permite blanquear dinero pagando mucho menos del 10% de gravamen y anuncia que no se comprobarán las declaraciones de los defraudadores tras las críticas de los evasores

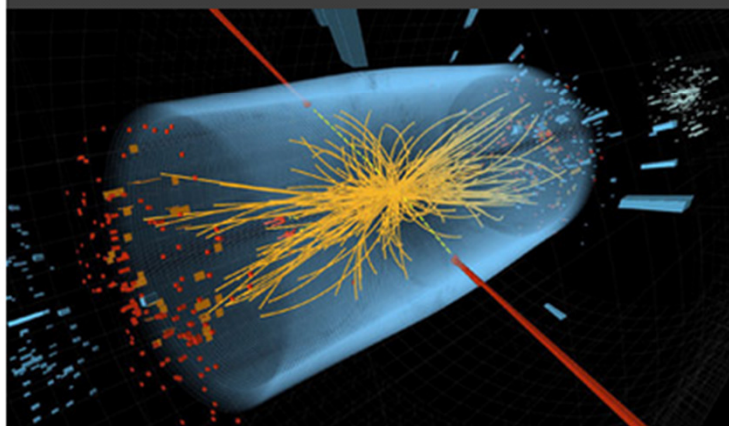
▶ **DESCARGABLE** [El documento de Hacienda sobre la amnistía](#)

▶ [Tributos aclara dudas sobre el proceso](#)



### La comunidad científica aguarda expectante el anuncio del CERN sobre el bosón de Higgs

Los científicos del acelerador de partículas de Ginebra explican en estos momentos sus hallazgos sobre la llamada 'partícula de Dios'



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### Espejismo laboral

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