

Subject: [CNS-weekly-clips] CNS Weekly Clips -- July 6-July 19, 2009
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Date: Mon, 20 Jul 2009 08:34:49 -0700
To: cns-weekly-clips@cns.ucsb.edu

**Center for Nanotechnology in Society
University of California, Santa Barbara**

www.cns.ucsb.edu

Weekly Clips

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4. Too Small to Overlook
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10. Nanotechnology - A Secure and Safe Motor of Innovation for Swiss Economy and Society
11. American Chemical Society announces second nanotechnology video contest
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AZoNano.com | July 17, 2009

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by taking advantage of the crystal structure of diamond...

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22) New Geothermal Heat Extraction Process to Deliver Clean Power Generation

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Researchers at the Pacific Northwest National Laboratory (PNNL), United States, have developed a new method for capturing significantly more heat from low-temperature geothermal resources. Geothermal holds promise as a clean energy source as it has no greenhouse gas emissions and is a steady and dependable source of power...

23) Superhydrophobicity Saves Scalding

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<http://www.merid.org/NDN/more.php?id=2032>

Chinese scientists have developed a coating for clothing that could help reduce industrial injuries due to scalding. Noting that superhydrophobic surfaces, such as Teflon and lotus leaves, exhibit high repellency to cool water, but significantly less repellency to hot water, the scientists developed a fabric coated with a Teflon and carbon nanotube composite. The carbon nanotubes increased the roughness of the surface, thereby trapping air bubbles in tiny pores, and improved the superhydrophobicity of the material...

24) Researchers engineer first artificial graphene

Nanowerk | July 17, 2009

<http://www.nanowerk.com/news/newsid=11718.php>

The first artificial graphene has been created at the NEST laboratory of the Italian Institute for the Physics of Matter (INFN-CNR) in Pisa. It is sculpted on the surface of a gallium-arsenide semiconductor, to which it grants the extraordinary properties of the original graphene. Published as a Rapid Communication on Phys.Rev.B, the research has been highlighted by the American Physical Society...

25) Bowl-Shaped Molecule Promises Carbon Capture

Nanotechnology and Development News | July 17, 2009

<http://www.merid.org/NDN/more.php?id=2033>

A scientist at the University of Maryland, United States, has accidentally discovered a new molecule that could revolutionize carbon sequestration. John A. Tossell found a bowl-shaped molecule that will not only capture local carbon dioxide through an evaporation process but will effectively imprison it for later controlled release, a process

that could lead to true carbon control. The imprisoned carbon dioxide could then be directed toward a multitude of uses, such as feeding commercial algae farms...

26) UK government calls on industry to help develop national nanotechnology strategy

Nanowerk | July 17, 2009

<http://www.nanowerk.com/news/newsid=11711.php>

Lord Drayson, Science and Innovation Minister and chair of the Ministerial Group on Nanotechnologies, is calling on industry and interested groups to get involved in shaping a UK strategy for nanotechnologies

Industry, academia and consumer groups were invited to use a new website to help develop the strategy, building on and consolidating the existing research and consultations that have already taken place. The website will gather views on core issues including research, regulation, innovation and commercialisation, measurement and standards and information as well as on the anticipated impact of nanotechnologies on a wide range of sectors...

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Nanotechnology and Development News | July 17, 2009

<http://www.merid.org/NDN/more.php?id=2034>

Researchers at the Pacific Northwest National Laboratory (PNNL), United States, have developed a new method for capturing significantly more heat from low-temperature geothermal resources. Geothermal holds promise as a clean energy source as it has no greenhouse gas emissions and is a steady and dependable source of power...

23) Superhydrophobicity Saves Scalding

Nanotechnology and Development News | July 17, 2009

<http://www.merid.org/NDN/more.php?id=2032>

Chinese scientists have developed a coating for clothing that could help reduce industrial injuries due to scalding. Noting that superhydrophobic surfaces, such as Teflon and lotus leaves, exhibit high repellency to cool water, but significantly less repellency to hot water, the scientists developed a fabric coated with a Teflon and carbon nanotube composite. The carbon nanotubes increased the roughness of the surface, thereby trapping air bubbles in tiny pores, and improved the superhydrophobicity of the material...

24) Researchers engineer first artificial graphene

Nanowerk | July 17, 2009

<http://www.nanowerk.com/news/newsid=11718.php>

The first artificial graphene has been created at the NEST laboratory of the Italian Institute for the Physics of Matter

(INFM-CNR) in Pisa. It is sculpted on the surface of a gallium-arsenide semiconductor, to which it grants the extraordinary properties of the original graphene. Published as a Rapid Communication on Phys.Rev.B, the research has been highlighted by the American Physical Society...

25) Bowl-Shaped Molecule Promises Carbon Capture
Nanotechnology and Development News | July 17, 2009
<http://www.merid.org/NDN/more.php?id=2033>

A scientist at the University of Maryland, United States, has accidentally discovered a new molecule that could revolutionize carbon sequestration. John A. Tossell found a bowl-shaped molecule that will not only capture local carbon dioxide through an evaporation process but will effectively imprison it for later controlled release, a process that could lead to true carbon control. The imprisoned carbon dioxide could then be directed toward a multitude of uses, such as feeding commercial algae farms...

26) UK government calls on industry to help develop national nanotechnology strategy
Nanowerk | July 17, 2009
<http://www.nanowerk.com/news/newsid=11711.php>

Lord Drayson, Science and Innovation Minister and chair of the Ministerial Group on Nanotechnologies, is calling on industry and interested groups to get involved in shaping a UK strategy for nanotechnologies. Industry, academia and consumer groups were invited to use a new website to help develop the strategy, building on and consolidating the existing research and consultations that have already taken place. The website will gather views on core issues including research, regulation, innovation and commercialisation, measurement and standards and information as well as on the anticipated impact of nanotechnologies on a wide range of sectors...

CNS-weekly-clips mailing list
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