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Dear Sir or Madam

Welcome to our April newsflash of the Innovation Society, St. Gallen with the following News:

- 11th International Nano-Authorities-Dialogue
- Turn heat into energy
- Cell generator: Harvesting energy from cells for micro biomedical applications
- Transforming greenhouse gas CO2 into carbon nanotubes
- Nanoparticles remain unpredictable
- SimplyNano 2 courses (in German)

Enjoy the reading and kind regards,

The Innovation Society, St. Gallen

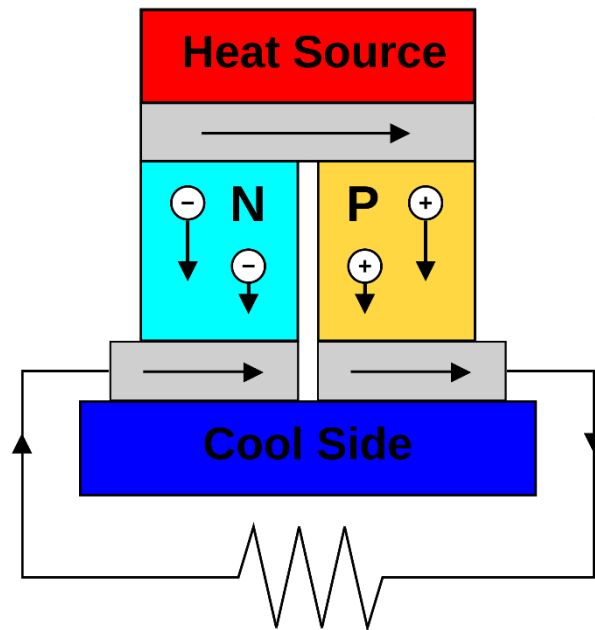
11th International Nano-Authorities-Dialogue



The 11th International Nano-Authorities-Dialogue (NAD) took place on the 29th March 2017, at the invitation of the Austrian Federal Ministry of Agriculture, Forestry, Environment and Water Management (Lebensministerium), in Vienna. About 50 representatives from authorities, research institutions, NGO's and companies from Austria, Germany, Switzerland, Luxembourg, and Liechtenstein discussed the topic "Governance and Regulation of Nanomaterials".

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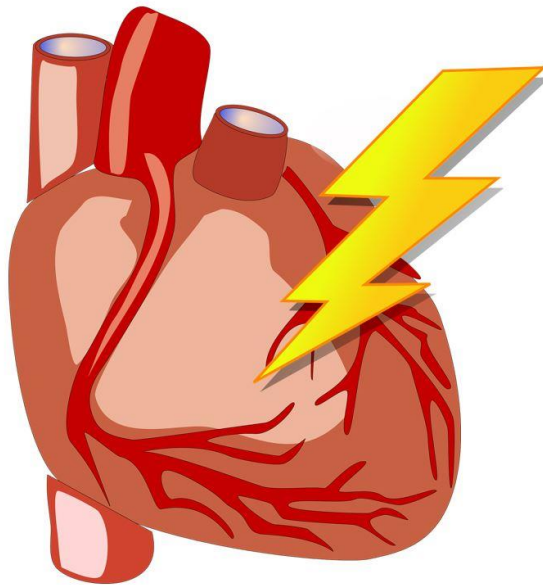
Turn Heat into Energy



Thermoelectric generators can create electricity from heat, thereby regaining energy. Nevertheless, they consist of rare and/or toxic materials. The scientists from the Center for Nanointegration (CENIDE) at the University of Duisburg-Essen (UDE) have already established their own technique.

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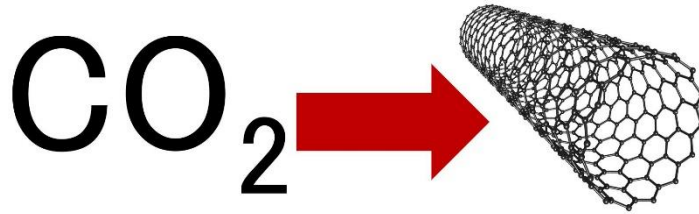
Cell generator: Harvesting energy from cells for micro biomedical applications



Recently, great progress has been made in the development of bio-hybrid devices with enhanced biological, mechanical and electrical designs. Devices with cultured heart cells were developed, which produced electrical outputs. In addition, muscular tissue-based actuators were generated.

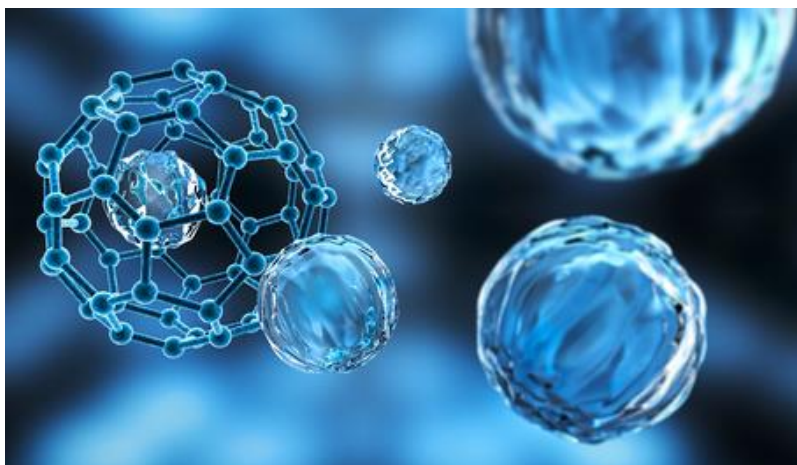
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Transforming greenhouse gas CO₂ into carbon nanotubes



The cement industry is one of the largest sources worldwide of carbon emissions, accounting for around five per cent of global emissions. Two thirds of these CO₂ emissions are released during the chemical process of burning limestone for cement production and can only be cut by extracting the CO₂ from the emissions in one form or another. Now, in two new studies, researchers show that cement plants can have their carbon dioxide exhaust eliminated while co-producing carbon nanotubes.

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The way that nanoparticles behave in the environment is extremely complex. There is currently a lack of systematic experimental data to help understand them comprehensively, as ETH environmental scientists have shown in a large overview study. A more standardised approach would help to advance the research field.

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SimplyNano 2 courses (in German)



**11.11.2017 SimplyNano 2 course at
PH St. Gallen**

**29.11.2017 SimplyNano 2 course in
MuttENZ Basel**

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Contact

Die Innovationsgesellschaft mbH
Lerchenfeldstr. 5
St.Gallen 9014
Switzerland

[Add us to your address book](#)

Phone: +41 71 278 02 05

Web: www.innovationsgesellschaft.ch