If the newsletter is not displayed correctly, you can download it from the archive as a red.

the innovation society

October 2014 Newsflash

Annotations by the Innovation Society

Welcome to the October newsflash of the Innovation Society. We wish you

an inspiring reading and we are looking forward to receiving your feedback!

The US EPA has revised a recently published proposed rule that originally included a significant new use rule (SNUR) on nanoscale materials. The

proposed rule now only contains requirements on reporting and

Meanwhile, the second part of the review on the "Commission

Recommendation on the Definition of Nanomaterial", in which stakeholder feedbacks are analysed, has been published by the Joint Research Centre

(JRC). In the report the definition is put in perspective with existing

Issues

Dear Reader

Kind regards

definitions.

The Innovation Society

Regulation of nanomaterials

recordkeeping of nanomaterials.

Annotations by the Innovation Society

Solar Cell that Stores its own Power

Coating CNT Lowers Risk of Lung Injury

<u>CNT Can</u> <u>Accumulate</u> <u>Quickly in</u> <u>Sediment</u>

UNITAR offers new E-Learning Course

Chances and risks of nanomaterials

Scientists at the University of Massachusetts Amherst functionalised gold nanoparticles in a manner that they are able to kill multi-resistant bacteria strains. Even after 20 generations, the particles did not induce resistance. More good news: A group of Finnish researchers managed to replace copper windings in electrical motors by CNT yarn. The discovery promises important advances regarding efficiency and weight, for instance.

The Innovation Society in the media

Batteries included: A Solar Cell that Stores its Own Power



Is it a solar cell? Or a rechargeable battery? Actually, the patent-pending device invented at The Ohio State University is both: the world's first solar battery, which runs on light and air. Key to the innovation is a mesh solar panel, which allows air to enter the battery, and a special process for transferring electrons between the solar panel and the battery electrode. **Read more**

Coating CNT with Aluminium Oxide Lowers Risk of Lung Injury



A new study from North Carolina State University and the National Institute of Environmental Health Sciences (NIEHS) finds that coating multiwalled carbon nanotubes (MWCNTs) with aluminum oxide reduces the risk of pulmonary fibrosis in mice. "This could be an important finding in the larger field of work that aims to predict and prevent future diseases associated with engineered nanomaterials," says James Bonner, senior author of the paper. **Read more**

CNT Can Accumulate Quickly in Sediment



A Duke University team has found that single-walled carbon nanotubes (SWCNT) accumulate quickly in the bottom sediments of an experimental wetland setting (mesocosm).

The results indicate little risk to humans ingesting the particles through drinking water, the scientists say. But they say that the tendency for the nanotubes to accumulate in sediment could indirectly damage the aquatic food chain in the long term if the nanoparticles provide "Trojan horse" piggyback rides to other harmful molecules - an issue they want to address in follow-up studies. **Read more**

UNITAR offers new E-Learning Course "Introduction to Nanomaterial Safety



The e-Learning course provides interested stakeholders with an introduction to the "sound management of manufactured nanomaterials". The focus is on the special properties of nanomaterials and following implications for human health or the environment. The course has been developed by the United Nations Institute for Training and Research (UNITAR) based on work under the Strategic Approach to International Chemicals Management (SAICM) and international organizations, such as the OECD. **Read more**



The Liechtensteiner Television looks back on the first "SimplyNano 1®" course in Liechtenstein in a two-minutes TV report. It explains how the "SimplyNano 1®" experimental kit closes gaps in schools. **Read more**

Costumers with imagination

Die Bereitschaft der Firmen, Crowdsourcing einzusetzen.



The Sparkassenzeitung described the idea behind Crowdsourcing in a recent article. Furthermore, Christoph Meili, CEO of the Innovation Society, explains in which regards a lot of enterprises see problems with Crowdsourcing. **Read more**

Copyright © 2014 Die Innovationsgesellschaft mbH, All rights reserved. Sie erhalten diese E-Mail, weil Sie in unserem Newsletter-Verteiler eingetragen sind. You are receiving this email because you are signed up for our newsletter.

Contact: Die Innovationsgesellschaft mbH Lerchenfeldstr. 5 St.Gallen 9014 Switzerland

Add us to your address book

Phone: +41 71 278 02 04 Web: <u>www.innovationsgesellschaft.ch</u> Facebook: <u>https://www.facebook.com/Innovationsgesellschaft</u> Twitter: <u>https://twitter.com/IG_2014</u>

If you want to unsubscribe, please click here. If you want to change your preferences, please click here.