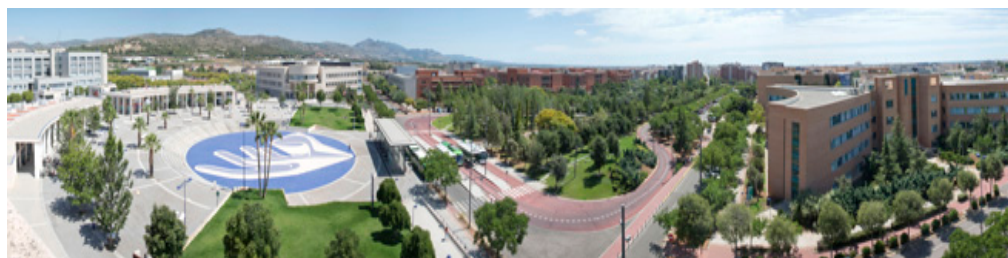




UJI

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Research

Culture and
society

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suggestion box

International experts discuss at the UJI the most innovative nanotechnology to fight climate change

The 1st International Conference on Nanofluids shows the potential of new materials to increase energy efficiency and reduce greenhouse gas emissions

26/06/2019 | SCP

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International experts debate the most innovative nanotechnology tools to fight global warming and climate change at the Universitat Jaume I (UJI). This morning, the 1st International Conference on Nanofluids, organised by the COST Action Nanouptake *Overcoming Barriers to Nanofluids Market Uptake* of the European H2020 programme, led by Leonor Hernández, lecturer in the Department of Mechanical Engineering and Construction, was inaugurated at the Faculty of Health Sciences.



The objective of this conference is to develop and promote the use of these advanced heat transfer and thermal energy storage materials to increase the efficiency of heat exchange and storage systems. In this way, it is expected to contribute to meeting the European Council's ambitious energy objectives for 2020: to reduce greenhouse gas emissions by 20%; to increase renewable energies by 20%; and to improve energy efficiency by 20%.

Nanofluids combine nanoparticles in fluids such as water, oils, etc., which can radically change their properties - colour, thermal conductivity, density or heat transmission - to improve their properties and make processes more efficient. These improvements affect both the domestic and industrial environments, as nanofluids can be widely used in heating, refrigerators, refrigeration of vehicle engines or solar thermal power plants, among others.

One of the main missions of COST Action Nanouptake is to create a European network

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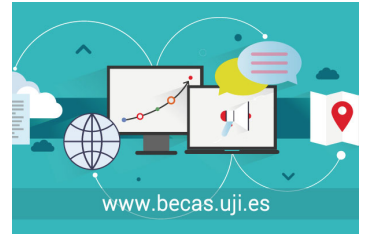
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International experts discuss at the UJI the most innovative nanot... <https://www.uji.es/com/investigacio/arxiu/noticies/2019/6/nanofluid...>
that promotes the use of advanced heat transport and thermal storage nanofluids to increase the efficiency of heat exchange systems. This initiative, which was launched in May 2016 and will run until April 2020 with a budget of approximately 130,000 euros per year, brings together 45 groups of scientists from 25 countries with representation from universities, research centres and companies in this sector.



More information:

COST Action CA15119 NANOUPTAKE: Overcoming Barriers to Nanofluids Market Uptake
compuesta por 45 instituciones de 25 países (www.nanouptake.eu).

Information and queries: UJI suggestion box | Security and privacy center

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